Appendix A

Staff Qualifications

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Ami Arsenault, Dip EM

Ms. Arsenault is an environmental technician and part of the Water and Natural Resources Team in AECOM's Markham office. She has a Diploma in Ecosystem Management from Sir Sanford Fleming College. She has had the opportunity to work and volunteer for many environmental organizations, which has contributed to her ability to produce quality work for clients. As an environmental technician, Ms. Arsenault has participated in a variety of projects, allowing her to have experience with electrofishing, fish identification, stream assessments, ground water and surface water sampling, bat cavity searches, turtle surveys, snake surveys, tree assessments, and ecological land classification field work. Ms. Arsenault is also responsible for data entry and report preparation.

Robert Conohan, HBSc

Mr. Conohan is an ELC certified wildlife biologist with AECOM Environment. Mr. Conohan has approximately twelve years of experience working as a field biologist with an expertise in conducting wildlife studies. He specializes in conducting avian surveys for raptors and nesting songbirds and has conducted extensive biological investigations in northwestern and central British Columbia, central and southern Ontario as well as Santa Barbara, Ventura, San Bernardino, Kern, Riverside and Imperial Counties in California and Clark County Nevada. Mr. Conohan has also participated in a variety of project types including environmental assessments, environmental impact studies, natural science inventories, and habitat assessments for rare and endangered species as well as wetland delineations and vegetation mapping. Many of these projects were highly complex linear projects which required the identification and mapping of sensitive flora and fauna species, characterization of site-specific constraints to development, and the identification of mitigation opportunities. Mr. Conohan also has extensive experience conducting environmental compliance monitoring for various construction projects in Ontario, British Columbia, California and Nevada. Prior to employment with AECOM, Mr. Conohan acquired experience working as a Biologist for the Ontario Ministry of Natural Resources and Forestry as well as Louisiana State University. He is currently a member of the Raptor Research Foundation, Waterbird Society, The Association of Field Ornithologists, Wilson Ornithological Society, and the Cooper Ornithological Society.

Jillian deMan, BSc

Ms. deMan is a terrestrial ecologist with 10 years of experience, including environmental, engineering and waste management projects. She is certified in both ELC (2003) and OWES (2004). Ms. deMan is involved with numerous projects across Canada that incorporate natural heritage issues / planning and restoration. She has familiarity with the Mixedwood Plains, Boreal Shield, Taiga Shield, Atlantic Maritime and Hudson Plains ecozones of Canada. Her technical skills include wetland boundary delineation, evaluation, monitoring and restoration, soils identification, air-photo interpretation, multi-scale floral inventories, amphibian surveys, woodland evaluations and biomass fish sampling through seine net, minnow trap or electrofishing methods. Ms. deMan assists with the preparation of environmental impact studies, constraints and opportunity reports, subject land status reports, environmental assessment evaluations, restoration plans, monitoring reports and peer reviews.

Julie Ellis, BSc (Hons)

Ms. Ellis is an ELC certified terrestrial biologist with knowledge of Natural Heritage Assessment (NHA) requirements under the Renewable Energy Approval (REA) process, as described in Ontario Regulation 359/09 (O.Reg. 359/09) under the *Environmental Protection Act*. While at AECOM, Ms. Ellis has contributed to numerous

renewable energy projects in southern and central Ontario. Her involvement in these projects has included terrestrial field work coordination, terrestrial fieldwork, data analysis and writing the significant wildlife habitat components of Natural Heritage Assessment (NHA) reports and amendments, and development of post-construction environmental effects monitoring plans in accordance with the most recent Ministry of Natural Resources and Forestry guidelines. Ms. Ellis has also assisted in performing ecological land classification field work, species at risk permitting, tree inventories, benthic macroinvertebrate sampling, herpetofaunal survey, avian and species at risk surveys.

In addition, Ms. Ellis was an environmental monitor for the Bluewater and Jericho Wind Energy Centre projects during the construction phases of these projects.

Olga Hropach, BSc (Hons)

Ms. Hropach is an ELC certified terrestrial ecologist with expertise in Natural Heritage Assessment (NHA) requirements under the Renewable Energy Approval (REA) process, as described in Ontario Regulation 359/09 (O.Reg. 359/09) under the *Environmental Protection Act*. While at AECOM, Ms. Hropach has contributed to many wind energy projects in southern Ontario. Her involvement in these projects has included terrestrial field work, data analysis and writing the significant wildlife habitat components of Natural Heritage Assessment (NHA) reports, Species at Risk permitting, construction environmental compliance monitoring, and development of post-construction environmental effects monitoring plans (EEMPs) and operational mitigation plans in accordance with the most recent Ministry of Natural Resources and Forestry guidelines. Ms. Hropach has also conducted ecological land classification field work, herpetofauna surveys and avian surveys as well as assisted in preparing environmental impact assessments on numerous projects. She has also assisted in 24/7 environmental monitoring for frac-outs.

Prior to joining AECOM, Ms. Hropach worked as a Species at Risk Assistant Biologist with the Ministry of Natural Resources and Forestry. As a result, she has experience with Species at Risk in Ontario and has an extensive knowledge of the *Ontario Endangered Species Act*, 2007.

Amy Ingriselli, Dip FWT

Ms. Ingriselli is an aquatic biologist with a Fish and Wildlife Technician Diploma in AECOM's Water and Natural Resources Team. She has experience and expertise in fisheries biology and fish habitat assessments. She has conducted and led fisheries assessment projects with various objectives in both the private and public sectors, including work with aquatic Species at Risk. Though her focus is aquatic science, through volunteer work, education, work experience and personal interest she also offers a variety of experience and knowledge in terrestrial natural heritage features such as wildlife, plants, birds, invertebrates (aquatic and terrestrial) and Species at Risk.

James Kamstra, MES

Mr. Kamstra has 25 years of experience conducting environmental impact studies, biophysical inventories, and ecological restoration projects. Through his extensive field experience, he has become a recognized expert in identifying flora and fauna, assessing ecological significance, and understanding the function of ecosystems. Mr. Kamstra has completed numerous studies on the impact of a wide variety of developments on natural heritage features including wind energy, residential housing, industrial sites, landfills, gravel pits, mines, golf courses, highways, pipelines, and hydroelectric dams with experience in Ontario, British Columbia, United Arab Emirates, and Belize. He is highly experienced with vegetation mapping, quantified vegetation sampling, wildlife population surveys, and habitat evaluations. Mr. Kamstra is ELC certified and is a qualified wetland evaluator that has evaluated several wetlands in southern Ontario. He has particular expertise in the fields of herpetology, ornithology, and botany, and has worked with many of Ontario's Species at Risk. Mr. Kamstra has extensive Species at Risk experience in Ontario. He sat on advisory panel which assisted MNRF in developing the *Ontario Endangered*

Species Act, 2007 and currently sits on COSSARO, which determines species on the official list in Ontario. He sits on two recovery teams and has written status reports and recovery strategies for several species. In addition, Mr. Kamstra has first-hand field experience with many Species at Risk through environmental impact studies and has prepared several Overall Benefit Permits.

Heather Kime, BSc

Ms. Kime is a terrestrial ecologist with AECOM's Water and Natural Resources Team out of Markham, Ontario. With over eight years of ecologist experience, her expertise includes natural resource inventories and evaluations, impact studies, and development of restoration, mitigation and compensation plans. She is ELC and OWES certified and her technical skills include conducting vegetation community delineation, wetland delineation, soils analysis and identification, and fauna inventories for birds, amphibians, reptiles and mammals. Heather has been part of study teams conducting terrestrial and aquatic environmental monitoring, assessment and enhancement projects across southern Ontario.

Carla K. Korpijaakko, HBESc

Ms. Korpijaakko is an ELC certified environmental scientist/terrestrial ecologist in the Water and Natural Resources Team. Her academic background encompassed environmental sustainability and resource management issues and mitigation, as well as studies in animal and ecological biology. Ms. Korpijaakko has experience in field and reporting applications with field skills in bird and bat identification, breeding frog identification through calls, and identification of vegetation species. She is familiar and understands regulations such as provincial policy statement, federal *Species at Risk Act*, *Ontario Endangered Species Act*, and *Migratory Birds Convention Act*, as an asset in determining proponent requirements in terms of project permitting and approvals.

Ms. Korpijaakko manages various projects with a focus on post-construction monitoring at wind power projects. She also works closely with project managers and engineers on transportation infrastructure and urban development projects, from preconstruction environmental assessments to detailed design to construction and post-construction monitoring. Consultation is a large part of her day-to-day work, whether with proponents/clients, agencies such as Ministry of Natural Resources and Forestry, Environment Canada, Natural Resources Canada, and various conservation authorities.

Adam McClelland, BSc

Mr. McClelland is an ecology technician, with a particular interest in reptiles, amphibians, and insects. He has 1.5 years of experience conducting wildlife and vegetation surveys for private and non-profit organizations. While with AECOM, Mr. McClelland's contributions have focused primarily on wind energy projects in central Ontario; he has conducted a variety of wildlife and vegetation surveys targeting Species at Risk, significant wildlife habitat, and rare vegetation communities, as defined by Ministry of Natural Resources and Forestry protocols. He has also been involved in the analysis of the resulting data and the writing of environmental assessments.

Kasey McKenzie, Dip EMT

Ms. McKenzie is an ecology technician with AECOM. She is a recent graduate of Fleming College with a diploma in Ecosystem Management Technology and professional background in urban forestry and terrestrial field work in southern Ontario. Ms. McKenzie has participated in mainly one large scale project thus far with AECOM. Her involvement with this renewable energy project has included terrestrial fieldwork, data analysis and technical reporting. Her terrestrial fieldwork has included mainly ecological land classification and wildlife surveys such as turtle basking, snake gestation and bat cavity searches. Kasey has also assisted with data analysis and the preparation of this project's Natural Heritage Assessment, Environmental Assessment, Species at Risk reports and technical memos.

Bill McLeod, Dip FWT

Mr. McLeod is a fish and wildlife and environmental technician. He has been the lead environmental site inspector for four wind energy projects, two trunk sewer projects, water main projects as well as several road widening and residential development projects, where he monitored daily construction activities; kept the team apprised of all mitigation and monitoring requirements; and fostered strong working relationships with client, the construction contractor, and agencies representatives. Mr. McLeod has eight years of experience in construction monitoring of projects in environmentally sensitive areas that involved de-watering, in-stream works, erosion and sediment controls, weekly construction monitoring reports, on-site monitoring of directional drilling in natural feature areas and watercourse crossings, installations of culverts, fisheries timing windows, site reclamation, restoration and compensation plans, and permitting compliance. He is also an environmental technician with an emphasis in water resources projects. Mr. McLeod is experienced in fisheries and water quality programs, including fish and fisheries habitat assessments, fish sampling, species identification, and water quality data collection and analysis. He is knowledgeable in the collection/identification of fish and benthic invertebrates, use of water quality sampling equipment, erosion and sediment control measures, environmental construction inspections, and report preparation.

Emily McNaughton, BSc

Ms. McNaughton is an MSc Candidate at Royal Roads University and is an ELC certified terrestrial ecologist with 1.5 years of field experience and a keen interest in birds, botany and amphibians. Since having joined the AECOM team in the spring of 2015, Ms. McNaughton has participated in both small and large scale projects. The majority of Ms. McNaughton's experience has involved a combination of terrestrial vegetation assessments and wildlife surveys. She has played a supportive role in preparing environmental impact studies, and has utilized the Natural Heritage Information Centre for background species research. Currently, Ms. McNaughton is involved in environmental monitoring for development projects.

Jason P. Noronha, BSc

Mr. Noronha is a terrestrial ecologist with AECOM. He graduated Trent University with BSc in Environmental Science. Mr. Noronha has five years of ecology experience in Alberta and Ontario for consulting firms and non-profit organizations specializing in detailed forest inventory, growth and yield, inventory of plant communities, and environmental education. Jason is certified in the Ecological Land Classification system for southern Ontario. He has assisted in performing ecological land classification field work and analysis of the resulting data.

Casey O'Driscoll, Dip FWT

Mr. O'Driscoll is an ecology technician with AECOM. Mr. O'Driscoll recently graduated from the Fish and Wildlife Technician program at Sir Sandford Fleming College in Lindsay, Ontario. Mr. O'Driscoll has experience working in aquaculture at Lyndon Trout Hatcheries as a Hatchery Technician. Mr. O'Driscoll main focuses are on aquatic ecology however he is well versed in terrestrial ecology as well.

Johanna Perz, MSc

Ms. Perz is a terrestrial ecologist with AECOM. She graduated from Trent University with an MSc in ecology and conservation biology. Ms. Perz is certified in the Ecological Land Classification system for southern Ontario. For the past three years, Ms. Perz has worked on projects investigating shorebird breeding success and survival in the subarctic. She has also worked as a research assistant with University of Toronto and Trent University and as a field monitoring technician with a conservation authority. Ms. Perz's experience includes field studies throughout Ontario, database management, data analysis, and proposal and report preparation.

Ayesha Prasad, PhD

Dr. Prasad is an ecologist with experience in experimental community and forest ecology research. She has a Master's in Wildlife and Fisheries Biology and Management, as well as a Doctorate in Ecology from the State University of New York (U.S.A.). She is also certified in the Ecological Land Classification system for southern Ontario. In the past she has worked as an on-call ecologist with AECOM conducting surveys for rare plants in proposed mining sites in northern British Columbia, as well as a proposed port expansion in Prince Rupert, BC. She has also participated in surveys for the endangered plant *Micranthes spicata* in the Klondike region of the Yukon Territory, with the Canadian Wildlife Service (Whitehorse, YT). In recent months she has worked as a communications intern with the Sierra Club of Canada, in Ottawa.

In the last decade Dr. Prasad has worked on a variety of issues ranging from the impacts of eco-tourism on tiger reserves in southern India, and the role of exotic plant invasions in compromising habitat quality for large mammals, to factors influencing human-wildlife conflict and its mitigation, the role of habitat corridors in improving habitat use by elephants, and the role of local economic empowerment in improving the sustainability of long-term conservation initiatives. Her work expertise includes tropical forest ecology, restoration ecology, conservation biology, baseline biodiversity surveys, and teaching undergraduate biology. She is experienced in statistical, spatial, and GIS analyses, and has authored and co-authored peer-reviewed scientific articles, grant proposals, and technical reports. She is currently completing a part-time, long-distance post-doctoral fellowship with the Government of India, while working as an ecologist at AECOM.

Sarah Richer, BSc

Ms. Richer is an ELC and OWES certified terrestrial biologist with knowledge in Species at Risk assessment in provincial and federal legislation. While at AECOM, Ms. Richer contributed to the energy projects in southern and central Ontario. Ms. Richer worked in the field collecting ecological data for significant wildlife habitat components of Natural Heritage Assessment (NHA) reports. Outside of AECOM, Ms. Richer has 6 years of experience working in the ecological field. This experience includes environmental assessments, environmental impact statements, and in-field biological inventories of wildlife, botany, fish and insects. Ms. Richer also previously worked on the HIWEC project prior to AECOM involvement with two other consulting companies. Her involvements in the project prior to AECOM were ecological data collection, data analysis and report writing.

Tom Shorney, Dip EMT

Mr. Shorney is a Terrestrial Ecologist with 6 years of field experience and a keen interest in birds, bats and amphibians. Mr. Shorney has a Diploma in Ecosystems Management Technology from Sir Sanford Fleming College and is certified in both ELC (2012) and OWES (2014). Since having joined the AECOM team in the summer of 2011, Mr. Shorney has participated in both small and large scale projects. The majority of Mr. Shorney's experience in the consulting industry has involved a combination of terrestrial vegetation assessments and wildlife surveys. He has played a major role in preparing environmental impact studies, and has utilized the Natural Heritage Information Centre for background species research. Currently, Mr. Shorney is heavily involved in environmental monitoring for wind energy projects.

Nataliya Simonova, PhD

Ms. Simonova is a Terrestrial Ecologist with a keen interest in diagnostic environmental assessment, ecosystem monitoring, and field identification of flora (trees, shrubs, herbaceous plants including grasses, sedges and common invasive species). Ms. Simonova has a PhD in Biology and MSc in Botany. She also has a post-graduate certificate in Ecosystem Restoration and is certified in the Ecological Land Classification system for southern Ontario. Prior to joining AECOM's Water and Natural Resources Team in April 2015, Ms. Simonova was a

Professor of Botany at the Samara State Academy of Social Sciences and Humanities in Russia for six years. The majority of Ms. Simonova's experience with the HIWEC project has involved a combination of ecological land classification field work and wildlife surveys (e.g., herpetofaunal surveys and Species at Risk surveys). She has also played a role in data analysis.

Jessica Walker, MES

Ms. Walker is ELC certified and has over four years of experience working on a variety of environment projects including residential, infrastructure, and renewable energy developments. She specializes in natural resource inventories, evaluations, research, and impact studies. Ms. Walker has routinely completed natural area inventories and has conducted bird, mammal, and herpetofauna surveys. She is well versed in the identification of important natural features and evaluation of the significance and sensitivity of these features. Additionally, she has experience surveying and identifying critical habitats of Species at Risk, species of conservation concern, and identifying significant wildlife habitat. Ms. Walker has experience conducting both pre-construction and post-construction studies for bats and birds at large-scale wind farms in Southern Ontario. She has been involved in a range of roles for post-construction studies including conducting mortality searches, scavenger removal trials and searcher efficiency studies.

Jessica M. Ward, PhD

Dr. Ward is an ecologist specializing in ecological impact assessment with 11 years of experience in the study of aquatic and terrestrial ecosystems. Since joining AECOM, she has completed numerous studies on the environmental impacts of various development activities, including renewable energy (wind, solar and bio-fuel), water and waste water infrastructure, transportation and mining projects. Dr. Ward is currently focused on the management and technical review of environmental deliverables for large-scale wind energy development projects in southern Ontario, including Natural Heritage Assessments as required by O. Reg. 359/09 under the *Environmental Protection Act*, development of post-construction environmental effects monitoring plans in accordance with the most recent Ministry of Natural Resources and Forestry guidelines, and permitting under the *Endangered Species Act* and *Fish and Wildlife Conservation Act*. She was also AECOM's project manager for environmental monitoring and site inspection services during construction of the Bluewater, Goshen and Jericho Wind Energy Centres, as well as post-construction monitoring at the Bluewater Wind Energy Centre. Dr. Ward has experience designing, completing and providing technical oversight and review of environmental assessments, environmental impact studies, and environmental effects monitoring programs. Her involvement in these projects has been in the areas of ecology discipline co-ordination, agency and public consultation, technical review, research and report writing, statistical analysis and interpretation of ecological data, and environmental impact interpretation and analysis. Prior to joining AECOM, Dr. Ward completed a PhD on the ecological impacts of invasive species and worked as a science writer for Fisheries and Oceans Canada.

Kristan Washburn, MES

Ms. Washburn is an ELC and OWES certified terrestrial ecologist with AECOM's Water and Natural Resources Team. Ms. Washburn has over 5 years of working experience in the ecological and environmental services industry. She is experienced with leading ecological land classification field work, evaluating wetlands, Species at Risk assessments, flora and fauna identification and various species- and wildlife-specific surveys.

Appendix B

Field Notes

Appendix B1

2014 Site Investigation Field Notes

ELC Form

Project: Henvey Inlet
Field Staff: CK + TS
Map No.: 05 North

Date: 13 Nov 2014
Start Time: 13:35
End Time: 14:15
Infrastructure: T34
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
17/530003/5080072	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐	[illegible]	☐	☑	Low Shrub	5/4	3/4
☐		☑	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
17/530001/5079938	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species | Inclusion/Complex

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☐		☐	☐	Dead Tree		
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Dominant/Notable Species | Inclusion/Complex

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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species | Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	13 Nov 2014	**Map No.:**	05 South
Field Staff:	CK + IS	**Infrastructure:**	T34
Start Time:	13:35	**End Time:**	14:15
Weather:	12° C, sunny, Beaufort 2-3		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:	Y		530003 / 5080072	
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		530003 / 5080072	
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		530003 / 5080072	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Raven.

Beaver Dam + house SSE adjacent to SWT3-1

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

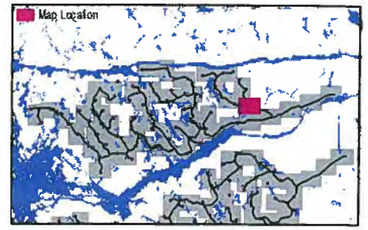
Map ID: HNV North 05

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification	Map #: North 7		Polygon: T30	
	Surveyor(s): TS-CK	Date: Nov 13/2014	Time start: 9:30 am finish: 10:30 am	
	UTMZ: 17T	UTMZ: 528753	UTMN: 5080454	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic **Site** ☐ Open Water ☐ Shallow Water ☑ Surficial Dep. ☐ Bedrock **History** ☑ Natural ☐ Cultural **Cover** ☐ Open ☐ Shrub ☑ Treed	☐ Organic ☐ Mineral Soil ☑ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☑ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☑ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Poptrem > Bet Papy >> Ace Rubr
2	2	3	Poptrem > Bet pap >> White Pine
3	4	2	Ace Rub = Alm Erica
4	6-7	4	Black Ash >> Ground Pine

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	R	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	O	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Poplar-Birch deciduous Mineral Swamp	Code:	SW04-3
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

5cm snow + hard to see ground cover

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Onterio and ELC Soils Description

											Summary
Site Metrics	Pit/Auger #		1								
	UTM	Zone	17								Moisture Regime
		Easting	528753								
		Northing	5080454								
	Slope	Position	Base								
		Aspect	–								Drainage
		Percent	–								
		Slope Length	–								
Depth to...	Mottles		20cm								
	Gley		/								Effective Texture (indicate below)
	Water Table		30cm								
	Carbonates		–								
	Bedrock		–								
Soil Horizon Description	1	Depth from zero	6cm	% CF		% CF		% CF		% CF	
		Texture	organic								
	2	Depth from zero	40cm	% CF		% CF		% CF		% CF	
		Texture	med-coarse sand								
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock									
	Moisture Regime		/								
	Drainage		/								

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Perent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:								
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (Indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Form

Project: Henvey Inlet Date: 13 Nov 2014 Start Time: 9:20 am End Time:

Field Staff: CK + TB Infrastructure: T30

Map No: ~~5~~ North 07 UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	6	3
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	6	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17/E528821/N5080493 Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWT3-3	Birch-Poplar Mineral Dec. Swamp?	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☑	☐	Dead Tree		
☐		☐	☐	Deciduous Tree	8	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card. Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergant		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☑	☐	Low Shrub		
☐		☑	☐	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17/E528915/N5080467 Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Inclusion/Complex:

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: 13 Nov 2014 Start Time: 1045am End Time: 1430

Field Staff: CK + TS Infrastructure: T32

Map No.: North 07 UTMs:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	6	4
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	6	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: T/F 529390 / N 5080201

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWD [illegible]	Red maple - Poplar bog organic [illegible] swamp?	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☐	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: T/ 529390 / 5080139

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	5-6	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ MAS3a	Cattail, reed organic shallow marsh	☑	☐	Low Shrub	5-6	3
☐		☐	☐	Tall Shrub		
☐		☐	☑	Dead Tree	2	1
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: MAS3a

Inclusion/Complex: See ELC Card

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ BOT [illegible]	Cran - leatherleaf bog	☑	☐	Low Shrub	5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: T/ 529266 / 5080130

Inclusion/Complex: See ELC card

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: 13 Nov 2014 Start Time: 1115 End Time: 1130

Field Staff: OK + TS Infrastructure: T32

Map No.: 07 North UTMs:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☐	Tall Shrub	4	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / 509254 / 5080144 Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☑ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / 5292528 / 5080027 Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Inclusion/Complex:

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Community Description and Classification	Map #: 07 North		Polygon: T32	
	Surveyor(s): CK+TS	Date: 18 Nov. 2014	Time start: 1045 finish: 1130	
	UTMZ: 17	UTMZ: 529402	UTMN: 5080227	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ■ Wetland ☐ Aquatic	■ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ■ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ■ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ■ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ■ Shallow Water ☐ Surficiel Dep. ☐ Bedrock				
History ■ Natural ☐ Culturel				
Cover ■ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	~~Dead Tree~~ Dead
2	4	1	Typha lat
3	5	3	Graminoid sp > cottongrass > leatherleaf
4	6-7	3	sphag

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	N	<10	N	10-24	N	25-50	N	>50
	Standing Snags:	O	<10	A	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:		~~<10~~		10-24		25-50		~~>50~~

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	~~MAS~~ graminoid organic shallow marsh	Code:	MAS3e
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soile Description

		Pit/Auger #	1			Summary
Site Metrics	UTM	Zone	17			Moisture Regime
		Easting	529402			
		Northing	5080227			
	Slope	Position	Base			
		Aspect	0%			Drainage
		Percent	0			
		Slope Length	n/a			
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table	0			
		Carbonates				
		Bedrock				

Soil Horizon Description									
1	Depth from zero		% CF		% CF		% CF		% CF
	Texture	organic							
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

ELC Community Description and Classification

Map #: North 07	Polygon: T32		
Surveyor(s): CK + TD	Date: 13 NOV 2024	Time start: 1100	finish: 1115
UTMZ: 17	UTMZ: 529230	UTMN: 5980138	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	■ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
■ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	■ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	■ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
■ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		■ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	■ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
■ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
■ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	1	Jack Pine
2	4	4	Alder sp > Tamarack
3	5	4	Graminoid spp. > Leatherleaf > Sheep laurel
4	7	3	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	N	N	N	N
BA:	Deadfall / Logs:	N	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Alder - Leatherleaf open bog	Code:	BBO1-3A
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	X						
	UTM	Zone	17						Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							
		Water Table	0						Effective Texture (indicate below)
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture	organic						
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	13 Nov 2014	**Map No.:**	07 North
Field Staff:	CK + TS	**Infrastructure:**	T32
Start Time:	1045	**End Time:**	1130
Weather:	2°C, 0% CC, no wind or Beaufort 1		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y			Water/wetland habitat: See other SWC Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y			
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:	Y			
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y	N	529320/5080201	RBT → tons of fissured rock.
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:				

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

amph breeding site 17/529 258 / 5080827

waterfowl stopover/amph breeding/turtle breeding/overwinter = MAS 17/599403/5080229.

chickadees

Raven

Vole

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

This is a great site for SWH. moose pellets throughout

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	13 NOV 2014	**Map No.:**	North 07
Field Staff:	CC + TS.	**Infrastructure:**	T30
Start Time:	930	**End Time:**	1030
Weather:	-2°C, sunny, no wind.		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD; shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:	Y		528753/5080454	
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		528821/5080493	
Massasauga gestation habitat:	Y		528821/5080493	
Skink Habitat/Nesting Area				
Forest with cover objects:	Y	N	528821/5080493	
Barren with cover objects:	Y			
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Chickadees

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

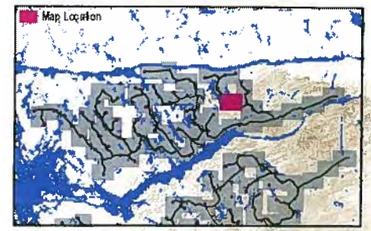
Map ID: HNV North 07

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	11/13/14	**Map No.:**	North 13
Field Staff:	JE/OH	**Infrastructure:**	T31/T28
Start Time:	08:20	**End Time:**	10:45
Weather:	-3°C, 2BS, 50%CC, snow on ground		

+ Snow on ground

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:	Y		520911/5574426	Potential gest site enroute to T28
Skink Habitat/Nesting Area				
Forest with cover objects:	Y		FOM 529458/5079961	FOM @ T31 has abundant deadfall
Barren with cover objects:	Y		RBT3-2	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Bear claw scratch 529450 5079451 (on Black Ash) in FOM ⇒ looks old

Red Squirrel, BLJA, RBNU, BCCH, Ruffed Grouse

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Community Description and Classification	Map #: 12 North		Polygon:	
	Surveyor(s): JE/OH	Date: 11/13/14	Time start: 8:20 finish: 8:45	
	UTMZ: 17T	UTMZ: 529454	UTMN: 5079471	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☑ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☑ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Snow on ground

Layer	HT	CVR	Species In Order of Decreasing Dominence (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	~~[illegible]~~ hemlock > Balsam fir > POPTREM > BETPAP
2	3	3	ACERRUB > ALNUINC > BETPAR
3	5	2	FERN
4	6	2	Grass

> = FRAXNIG

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	A	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:	fresh-moist hemlock-hardwood	Code:	
Vegetation Type:	Mixed forest.	Code:	FOM6-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 1	Tally 3	Tally 4	Total	Rel. Avg.
No prism						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #		see ELC utms							Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								Drainage
		Aspect								
		Percent								
		Slope Length								
Depth to...	Mottles		20							Effective Texture (indicate below)
	Gley		N/A							
	Water Table		N/A							
	Carbonates		NA							
	Bedrock		NA							
Soil Horizon Description	1	Depth from zero	5cm aboveground	% CF		% CF		% CF		% CF
		Texture	organics.							
	2	Depth from zero	0-4cm	% CF		% CF		% CF		% CF
		Texture	Loam							
	3	Depth from zero	4-11cm	% CF		% CF		% CF		% CF
		Texture	mS							
	4	Depth from zero	11+	% CF		% CF		% CF		% CF
		Texture	SiCl							
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: 12 North T29 | Polygon:

Surveyor(s): JE/DH | Date: 11/13/14 | Time start: 10:25 finish: 10:40

UTMZ: 17T | UTMZ: 528779 | UTMN: 5079242

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☑ Bottomland	☐ Floating-LVD.	☐ River
Site	☑ Acidic Bedrk	☐ Terrace	☑ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☑ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	3	Carex utriculata > chain fern
2	5	3	leather leaf > sheep laurel
3	7	4	sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m

CVR Codes: 6 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

No trees

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snags:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☑ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Leather leaf - Carex utriculata shrub bog	Code:	BOS 1-4A
Inclusion:		Code:	Bos 1a
Complex:		Code:	

Community Profile Diagram/Comments

Notes: Jackpine surrounds edge of BOS 1-4

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics	Pit/Auger #						
	UTM	Zone	17T				Moisture Regime
		Easting	528779				
		Northing	5079242				
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...	Mottles						
	Grey						
	Water Table						Effective Texture (indicate below)
	Carbonates						
	Bedrock						
Soil Horizon Description	1	Depth from zero		% CF	% CF	% CF	% CF
		Texture		organic			
	2	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	3	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	4	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

ELC Form

Project: Henvey Inlet Date: 11/13/14 Start Time: 08:20 End Time: 10.45

Field Staff: JE/OH Infrastructure: T31/T28

Map No.: -3°C 12 BS 5% CC UTMs: 17T 0529488/5079461 ±0

Snow from previous day NORTH 12 529481/5079986 ±0

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOM3-2	Fresh-moist Hemlock-hardwood mixed forest	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC conf.

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	3-4	3
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	3
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Snow on ground actively logged
FRAXINUS
ACER RUBR ALNUS INCA
CORNSER
Seedlings/Saplings

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid	5	4
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAM2-2	Mineral meadow marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	5	1
☐		☐	☑	Coniferous Tree	5	
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Water TBL <0cm, mineral soil wet
Carex utriculata / Bluejoint
Aster = Rubus idaeus

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	4	3
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	4	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine / common juniper / Blueberry
lichen

Inclusion/Complex:

Cron native species ie Bull thistle / common mullen present

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

5294454 / 5079471

5294555 / 5079374

5294833 / 5079284

Bet 2 white spruce

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

528864 / 5079358 70

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOS1-1	Leatherleaf shrub bog	☑	☑	Low Shrub	5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
leatherleaf > chainfern > rotten grass sphagnum western section to greater amounts chain fern	

528779 / 5079242 70

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOS1a	Leatherleaf –	☐	☐	Low Shrub		
☐ BOS1a	Carex intricate shrub bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

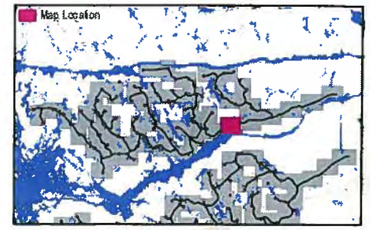
Map ID: HNV North 12

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

NOV 13, 2014
OH, JE
* snow on the ground

10/20/2014

0 25 50 100
Meters

1:2,500

ELC Community Description and Classification

Map #: North 13 - T27		Polygon:	
Surveyor(s): JE/04	Date: 11/13/14	Time start: 1:00 finish: 1:15	
UTMZ: 17T	UTMZ: 528141	UTMN: 5079192	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☑ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☑ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☑ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☑ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominence (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Jackpine
2	3-4	2	Alnus incana
3	5	4	leatherleaf
4	6	3	sheep laura
	7	4	sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	R	<10	R	10-24	N	25-50	N	>50
	Standing Snags:	N	<10	N	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	R	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Jackpine-leatherleaf treed Bog	Code:	BOT2-[illegible]
Inclusion:		Code:	BOT2a
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basel Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles	—			Effective Texture (indicate below)
		Gley	—			
		Water Table	—			
		Carbonates	—			
		Bedrock	5cm			

Soil Horizon Description										
	1	Depth from zero	0.5	% CF		% CF		% CF		% CF
		Texture	organic							
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: North 13 - 127 | Polygon:

Surveyor(s): JE/OH | Date: 11/13/14 | Time start: 12:20 finish: 12:45

UTMZ: 17 | UTMZ: 528054 | UTMN: 5029212

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☑ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☑ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Site: ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock

History: ☑ Natural ☐ Cultural

Cover: ☑ Open ☐ Shrub ☐ Treed

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	2	woolgrass
2	5	3	carex utriculata >> aster sp
3	6	2	carex bebbii
4	7	4	sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

No trees

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☑ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	MAS
Vegetation Type:	Broad leaved sedge organic	Code:	MAS3-4
Inclusion:	MARSH	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM: Zone					Moisture Regime
	UTM: Easting					
	UTM: Northing					
	Slope: Position					Drainage
	Slope: Aspect					
	Slope: Percent					
	Slope: Slope Length					
Depth to...	Mottles					Effective Texture (Indicate below)
	Gley					
	Water Table					
	Carbonates					
	Bedrock					

Soil Horizon Description										
	1	Depth from zero	30cm	% CF 0		% CF		% CF		% CF
		Texture	organics							
	2	Depth from zero	30+	% CF 0		% CF		% CF		% CF
		Texture	CS							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Form

Snow on ground

Project: Henvey Inlet

Field Staff: DH IJE

Map No.: 13 North

Date: 11/13/14

Start Time: 10:45

End Time: 1:30

Infrastructure: T27

UTMs: 528029/5079290

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alnus incana, Carex utriculata, sedges, grass, Grassy's, sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAS3-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: wool grass?, Carex utriculata grass sp, aster sp., sphagnum?? cranberry

Inclusion/Complex:

528054/5079212

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	L	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWS5-1	Dry-fresh white birch mixed cedar	☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	3-4	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☑	☑	Mixed Tree	2	3

Dominant/Notable Species: Betpap > white spruce > white pine, Alder, Herbs, grassy's

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ Borub	Jackpine –	☐	☑	Low Shrub		
☐ BOT2a	leatherleaf treed bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ex card

Inclusion/Complex:

Codes: HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: 11/13/14 Start Time: 10:45 End Time:

Field Staff: Infrastructure: T27

Map No.: NCAH 13 UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

T27 in small bog → move to 5281[illegible] / 5079223 or RBT3-2

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11/13/16	**Map No.:**	NCAR 13
Field Staff:	GH/SE	**Infrastructure:**	T27
Start Time:	10:45	**End Time:**	1:30
Weather:	-3°C/2BS/50%CC/Snow on the ground		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, Shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT32	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

HENVEY INLET FIELD MAPS

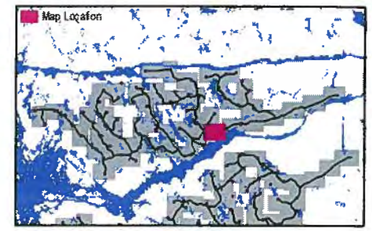
Map ID: HNV North 13

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:
Nov 13, 2014
O.H. J.E.
*snow on the ground

10/20/2014

0 25 50 100
Meters
1:2,500

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

528316 | 5099896

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	✓	Graminoid	5-6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	✓	Bryophyte	7	1
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
✓ BOT2-1b		☐	✓	Low Shrub	5	4
☐	BOT2a Jack Pine-Leatherleaf Treed Bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		✓	✓	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jackpine, leatherleaf, Carex sp., Sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet
Field Staff: JE/OH
Map No.: 41 Joan
Date: 11/13/14
Start Time: 2:00
End Time: 3:00
Infrastructure: T24
UTMs: 17 528351/5079885

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	5	3-2
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jackpine, common juniper, Iclan mosses, grasses

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rack Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☑ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-1	Jackpine Alnifolia	☐	☑	Low Shrub	4	3
☐	Treed Bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jackpine > Black spruce > winterberry > leatherleaf > sheep laurel > Grasses > sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FEO1-1	Rich calcareous	☐	☐	Low Shrub		
☐	leatherleaf open bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See elc.

Inclusion/Complex:

> 740cm deep water

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FEO1-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 528317 5079869 see previous elc

Inclusion/Complex:

< 40cm water

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

5280412 5079843

ELC Community Description and Classification	Map #: 14 North		Polygon:	
	Surveyor(s): JE/OH	Date: 11/13/14	Time start: 2:12 finish: 2:27	
	UTMZ: 17T	UTMZ: 528412	UTMN: 5079843	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☑ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☑ Riverine ☐ Bottomland ☐ Terraca ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Cravice/Cava ☐ Alvar ☑ Rockland ☐ Baach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submarged ☐ Floating-LVD. ☐ Graminoid ☑ Forb ☐ Lichen ☐ Bryophyta ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☑ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☑ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	1	Black spruce >> Pin stro
2	4-5	4	~~Carex utriculata~~ = leather leaf >> sheep lake
3	7	4	sphagnum
4			carex sp. (narrow leaved)

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	R	<10	N	10-24	N	25-50	N	>50
	Standing Snags:	N	<10	↓	10-24	↓	25-50	↓	>50
BA:	Deadfall / Logs:	N	<10	↓	10-24	↓	25-50	↓	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Matura	☐ Old Growth

Ecosite:	narrow leaved sedge	Code:	FEO
Vagetation Type:	leather leaf - ~~carex utriculata~~ open Fen	Code:	FEO Hb*
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: water ~ knee - ankle high - saterated & w̄ sphagnum

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
no prism						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting	see ELC			
		Northing	utms			
	Slope	Position				
		Aspect				Drainage
		Percant				
		Slope Length				
Depth to...		Mottles	—			
		Gley	—			Effective Textura (indicate below)
		Water Table	—			
		Carbonates	—			
		Bedrock	—			

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Textura	organic							
	2	Depth from zero		% CF		% CF		% CF		% CF
		Taxture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Textura								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		2		
Cliffs and Talus Slopes *Tree cover but less than 60%		2		
Old Growth Forest		2		
Rare Forest Type – Jack Pine		2		
Rare Forest Type – White Oak		2		
Rare Forest Type – White Oak		2		

Photo #	Location or Subject	Photo #	Location or Subject
	Olga Trepach camera		

Incidental Wildlife Observations:

BCCH, CORA

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11/13/14	**Map No.:**	14 North
Field Staff:	RE/DH	**Infrastructure:**	T24
Start Time:	2:06	**End Time:**	3:00
Weather:	-1 / 5% CC / 2=BS		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		528412 5079843	Water/wetland habitat: FEO H6 with >40cm standing water - Tamarack-Labrador Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		528342 5079860	Potential hiber - cracked rock appox 3-4' deep
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT30	Widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

HENVEY INLET FIELD MAPS

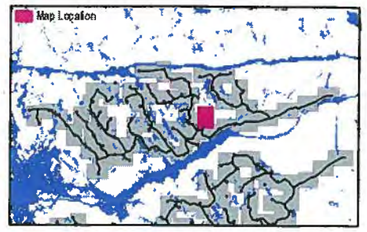
Map ID: HNV North 14

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:
Nov 13, 2014 OH/JE
Snow on the ground

10/20/2014

0 25 50 100
Meters
1:2,500

HENVEY INLET FIELD MAPS

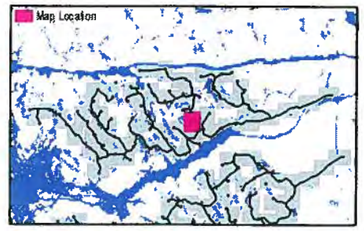
Map ID: HNV North 15

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

NK1 Tower 06

ELC Community Description and Classification

Map #: Henvey N 15 T26	Polygon: 1034 + 1035		
Surveyor(s): Kamsteeg + Deman	Date: Oct 21/14	Time start:	11:00
		finish:	11:30 am
UTMZ: 17	UTMZ: 527600	UTMN: 5079500	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☒ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	2	Pinbank
2	5	3	Jungpinn
3	3	3	Alcuvan - Cladina > mosc > Diesthex
4			folia

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	acidic Treed Rock Barren	Code: RBT3
Vegetation Type:	Jack Pine Acidic Treed Rock Barren	Code: T3-2
Inclusion:	5-12 Jack Pine	Code: MAM3-1
Complex:	n/a	Code: n/a

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

										Summary
Site Metrics		Pit/Auger #	1							
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...		Mottles	none							
		Gley	none							Effective Texture (indicate below)
		Water Table	n/a							
		Carbonates	none							
		Bedrock	5cm							
Soil Horizon Description	1	Depth from zero	5	% CF 0		% CF		% CF		% CF
		Texture	Sandy Loam							
	2	Depth from zero	5+	% CF		% CF		% CF		% CF
		Texture	Bedrock							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock	40%							
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock

History
☐Natural ☐Cultural

Cover
☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

Turbine 26

ELC Community Description and Classification

Map #: N15 T26	Polygon: NK2		
Surveyor(s): J. Kamstra J. Lemon	Date: Oct. 21, 2014	Time start: 11:39am	finish: 12:30pm
UTMZ: 527515	UTMZ: 527515	UTMN: 5079520	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☒ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☒ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☒ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar	Shrub	☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	1	Larix laricina
2	5	1	Vil ca > Juncus effusus > Typha lat > Carex lasio
3	6	4	Chamedaphne >> andromeda >> Sarr pur
4	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

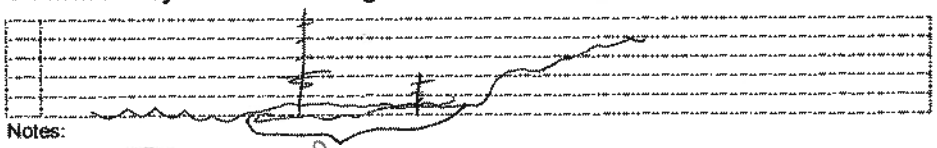
Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA: 0	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Treed Fen Ecosite	Code:	FET1
Vegetation Type:	Tamarack Treed Fen Type	Code:	FET1-1
Inclusion:	n/a	Code:	
Complex:	n/a	Code:	

Community Profile Diagram/Comments



Notes:
fen

- conducted Prism - no trees where in

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #	1				
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position	along lake				
		Aspect	North				Drainage
		Percent	0-1				
		Slope Length	10m				
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table	at surface				
		Carbonates					
		Bedrock	67cm				

Soil Horizon Description				% CF		% CF		% CF		% CF
	1	Depth from zero	67cm	0		% CF		% CF		% CF
		Texture	Sphagnum							
	2	Depth from zero	67+	0		% CF		% CF		% CF
		Texture	Bedrock							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock	0%							
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site				
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History				
☐Natural ☐Cultural				
Cover				
☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Dreinage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
	Moisture Regime					
	Drainage					

ELC Community Description and Classification	Map #: Henvey N15	Polygon: NK3 (1035)	
	Surveyor(s): Kamstiel	Date: Oct 21/14	Time start: 12:30 finish:
	UTMZ: 17T	UTMZ: 527650	UTMN: 5079570

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☒ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☒ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☒ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Picmari (6-10m)
2	4	3	Nemmuer > Picmari
3	6	4	Ledgroe > Kalaban
4	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

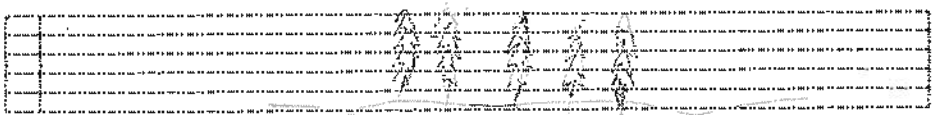
Stand Composition:	Size Class Analysis:	A	<10	A	10-24	N	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	R	<10	R	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Treed Bog Ecosite	Code:	BOT
Vegetation Type:	Treed Black Spruce Bog	Code:	BOT 1-1
Inclusion:	n/a	Code:	n/a
Complex:	n/a	Code:	n/a

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Black Spruce	13 dbh					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #							Summary
Site Metrics	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position	level						Drainage
		Aspect	0						
		Percent	0						
		Slope Length							
Depth to...		Mottles							Effective Texture (Indicate below)
		Gley							
		Water Table	20 cm						
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero	>120	% CF 0		% CF		% CF	% CF
		Texture	Fibric Organ						
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	0						
		Moisture Regime	wet						
		Drainage	poor						

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
alsam Fir (*Abies balsamea*)						
ommon Juniper (*Juniperus communis*)						
astern Red Cedar (*Juniperus virginiana*)						
k (*Larix laricina*)		X	X			
ruce (*Picea glauca*)						
ack spruce (*Picea mariana*)	X	X	X			
ck Pine (*Pinus banksiana*)			X			
ed Pine (*Pinus resinosa*)						
astern White Pine (*Pinus strobus*)						
cotch Pine (*Pinus sylvestris*)						
anada Yew (*Taxus canadensis*)						
astern White Cedar (*Thuja occidentalis*)						
astern Hemlock (*Tsuga canadensis*)						
Deciduous						
anitoba Maple (*Acer negundo*)						
orway Maple (*Acer platanoides*)						
ed Maple (*Acer rubrum*)						
reeman's Maple (*Acer X freemanii*)						
ugar Maple (*Acer saccharum*)						
ountain Maple (*Acer spicatum*)						
peckled Alder (*Alnus incana*)		X				
owny Serviceberry (*Amelanchier arborea*)						
erviceberry (*Amelanchier sanguinea*)						
ellow Birch (*Betula alleghaniensis*)						
hite Birch (*Betula papyrifera*)	X					
lue Beech (*Carpinus caroliniana*)						
limbing Bittersweet (*Celastrus scandens*)						
uttonbush (*Cephalanthus occidentalis*)						
lt.-leaved Dogwood (*Cornus alternifolia*)						
lky Dogwood (*Cornus amomum*)						
unchberry (*Cornus canadensis*)						
ray dogwood (*Cornus racemosa*)						
ound-leaved Dogwood (*Cornus rugosa*)						
ed-osier Dogwood (*Cornus sericea*)						
eaked Hazel (*Corylus cornuta*)						
nglish Hawthorn (*Crataegus monogyna*)						
arge-fruited Thorn (*Crataegus punctata*)						
rataegus						
rataegus						
ush Honeysuckle (*Dierville lonicera*)						
m an Beech (*Fagus grandifolia*)						
trawberry (*Fragaria virginiana*)						
h (*Fraxinus americana*)						
lack Ash (*Fraxinus nigra*)						
reen Ash (*Fraxinus pennsylvanica*)						
interberry (*Ilex verticilata*)		X	X			
y Honeysuckle (*Lonicera canadensis*)						
laucous Honeysuckle (*Lonicera dioica*)						
orrow's Honeysuckle (*Lonicera morrowii*)						
artarian Honeysuckle (*Lonicera tatarica*)						
ommon Apple (*Malus pumila*)						
weet Gale (*Myrica gale*)		X	X			
onwood (*Ostrya virginiana*)						
hicket-creeper (*Parthenocissus inserta*)						
inebark (*Physocarpus opulifolius*)						
alsam Poplar (*Populus balsamifera*)						
arge-tooth Aspen (*Populus grandidentata*)						
embling Aspen (*Populus tremuloides*)	X					
in Cherry (*Prunus pensylvanica*)						
lack Cherry (*Prunus serotina*)						
hoke Cherry (*Prunus virginiana*)						
runus						
hite Oak (*Quercus alba*)						
ur Oak (*Quercus macrocarpa*)						
ed Oak (*Quercus rubra*)						
lder Buckthorn (*Rhamnus alnifolia*)						
ommon Buckthorn (*Rhamnus cathartica*)						
taghorn Sumac (*Rhus hirta*)						
Vild Black Currant (*Ribes americanum*)						
rickly Gooseberry (*Ribes cynosbati*)						
wamp Black Currant (*Ribes lacustre*)						
ed Currant (*Ribes rubrum*)						
ibes						
rickly Rose (*Rosa acicularis*)						
mooth Rose (*Rosa blanda*)						
osa						
om. Blackberry (*Rubus allegheniensis*)						
Vild Red Raspberry (*Rubus idaeus*)						
lack Raspberry (*Rubus occidentalis*)						
urple-fl. Raspberry (*Rubus odoratus*)						

Trees & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)						
Rubus						
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)						
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)						
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)						
Crested Wood Fern (*Dryopteris cristata*)						
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)						
Sensitive Fern (*Onoclea sensibilis*)						
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)						
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)						
Marsh Fern (*Thelypteris palustris*)						
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar (*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)						
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracillima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (*Eleocharis erythropoda*)						
Eleocharis						
Hard-stem Bulrush (*Schoenoplectus acutus*)						
Three-square Bulrush (*Sch. pungens*)						
Soft-stem Bulrush (*Sch. tabernaemontani*)						
Dark-green Bulrush (*Scirpus atrovirens*)						
Wool-grass (*Scirpus cyperinus*)						
Other Graminoids						
Broad Bur-reed (*Sparganium eurycarpum*)						
Narrow-leaved Cattail (*Typha angustifolia*)						
Broad-leaved Cattail (*Typha latifolia*)						
Broad-leaved Cattail (*Typha X glauca*)						
Articulated Rush (*Juncus articulatus*)						
Soft Rush (*Juncus effusus*)						
Path Rush (*Juncus tenuis*)						
Juncus						
Juncus						

Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum

Common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover

Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)

Rare: represented in the polygon by less than about five individuals or small clumps

Project:

Date:

Surveyors:

1

2

3

NK1 - Jack Pine Barren

NK2 - Fen

NK3 -

4

5

6

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
mon Yarrow (*Achillea millefolium*)						
e Snakeroot (*Ageratina altissima*)						
. Ragweed (*Ambrosia artemisiifolia*)						
Pussytoes (*Antennaria neglecta*)						
nisia						
mon Burdock (*Arctium minus*)						
ding Beggar-ticks (*Bidens cernua*)						
I's Beggar-ticks (*Bidens frondosa*)						
ted Knapweed (*Centaurea biebersteinii*)						
vn Knapweed (*Centaurea jacea*)						
ory (*Cichorium intybus*)						
ada Thistle (*Cirsium arvesnse*)						
Thistle (*Cirsium vulgare*)						
seweed (*Conyza canadensis*)						
y Fleabane (*Erigeron annus*)						
adelphia Fleabane (*Erig. philadelphicus*)						
eron						
-pye-weed (*Eupatorium maculatum*)						
eset (*Eupatorium perfoliatum*)						
ge-leaved Aster (*Eurybia macrophylla*)						
-top Goldenrod (*Euthamia graminifolia*)						
nge Hawkweed (*Hieracium aurantiacum*)						
d Hawkweed (*Hieracium caespitosum*)						
racium						
campane (*Inula helenium*)						
ckly Lettuce (*Lactuca serriola*)						
tuca						
eye Daisy (*Leucanthemum vulgare*)						
eapple-weed (*Matricaria discoidea*)						
White Lettuce (*Prenanthes altissima*)						
ck-eyed Susan (*Rudbeckia hirta*)						
l Goldenrod (*Solidago altissima*)						
e-stem Goldenrod (*Solidago caesia*)						
nada Goldenrod (*Solidago canadensis*)						
-zag Goldenrod (*Solidago flexicaulis*)						
nt Goldenrod (*Solidago gigantea*)						
rly Goldenrod (*Solidago juncea*)						
ay Goldenrod (*Solidago nemoralis*)						
lidago						
ld Sow-thistle (*Sonchus arvensis*)						
nchus						
art-leaf Aster (*Symph. cordifolium*)						
ath Aster (*Symphyotrichum ericoides*)						
l White Aster (*Symph. lanceolatum*)						
lico Aster (*Symphyotrichum lateriflorum*)						
w England Aster (*Symph. novae-angliae*)						
rple-stem Aster (*Symph. puniceus*)						
mmon Tansy (*Tanacetum vulgare*)						
mmon Dandelion (*Taraxacum officinale*)						
m. Goatsbeard (*Tragopogon pratensis*)						
ltsfoot (*Tussilago farfara*)						
Other Dicot Herbs						
hite Baneberry (*Actaea pachypoda*)						
ed Baneberry (*Actaea rubra*)						
ll Agrimony (*Agrimonia gryposepala*)						
arlic Mustard (*Alliaria petiolata*)						
reen Amaranth (*Amaranthus retroflexus*)						
og-peanut (*Amphicarpa bracteata*)						
earty Everlasting (*Anaphalis margaritacea*)						
anada Anemone (*Anemone canadensis*)						
y Hepatica (*Anemone acutiloba*)						
himbleweed (*Anemone virginiana*)						
urple Angelica (*Angelica atropurpurea*)						
dian Hemp (*Apocynum cannabinum*)						
ild Sarsaparilla (*Aralia nudicaulis*)						
pikenard (*Aralia racemosa*)						
ild Ginger (*Asarum canadense*)						
wamp Milkweed (*Asclepias incarnata*)						
ommon Milkweed (*Asclepias syriaca*)						
ellow Rocket (*Barbarea vulgaris*)						
lack Mustard (*Brassica nigra*)						
larsh-marigold (*Caltha palustris*)						
hepherd's Purse (*Capsella bursa-pastoris*)						
utleaf Toothwort (*Cardamine concatenata*)						
oothwort (*Cardamine diphylla*)						
enn. Bitter-cress (*Cardamine pensylvanica*)						
ardamine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteri*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanginaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Cummon Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						
Sarracenia		X				
Nymphaea		F				
Monocot Herbs						
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallus fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tressee (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						
[illegible] [illegible]			X			

- **Dominant**: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum
- **Fairly common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover
- **Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)
- **Rare**: represented in the polygon by less than about five individuals or small clumps

Project:	1 NK1 [illegible]	4	
Date: October 21/2017	2 NK2 [illegible]	5	
Surveyors: Kowastra + [illegible]	3	6	

Turbine 26

Henvey Inlet - SWH & SAR Habitat Assessment Form

**Based on SWHTG Ecoregion E5 Criterion Schedule

AECOM

Date: RB Shrub / 10/. Tree Oct. 21 Map No.: N15 - 1034/1035

Field Staff: J. Kamstra J. Lamb Location:

Weather Conditions: 5°C, 50% Cloud B2-3 ELC Polygons: NK1, NK2, NK3

Start Time: 11 am - 11: End Time: 11:30 am

If any of the features listed below is identified, delineate it on the field map

Coloniai Nesting Tree/Shrub Birde, Osprey Breeding/Feeding, Beid Eegie Breeding/Neeting Hebitat

(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☑ No ☐ Yes (*Photograph and complete form*)

UTMs: Number of nests:

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species): - Jack Pine, Black Spruce
- Juniper shrub 60% - 40%

Waterfowle Stopover/Nesting, Amphibien Breeding, Turtle Nesting/Over-wintering, Marsh Breeding

(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☒ No ☐ Yes (*Photograph and complete form*)

Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Water depth (m): % open water: % emergent vegetation:

Description of standing water (permanent pool, evidence of annual spring flooding, etc.):

Area and soil/substrate of shoreline habitat:

Type of cover in open water habitat:

Type and abundance of cover in surrounding habitat:

Presence of pondweeds, milfoil and/or yellow water lily:

Presence of peat:

Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds:

Coloniel Nesting Bird Breeding Hebitet (Benk, Ciiff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Faicon)

(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Describe substrate:

Evidence of use by swallows or falcons (provide number of nests):

Coloniai Nesting Ground Breeding Birds, Shorebird Migretory Stopover Arees/Turtie Nesting Area/SAR Snekes

(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreiine of lake, large river or large wetland present: ☒ No ☐ Yes (*Photograph and complete form*)

Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)

Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Seeps end Springs/Minerel Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: [X] No [ ] Yes (*Photogreph end complete form*)
Description (e.g. indicator sp):

Evidence of mineral lick: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Meet Producing Arees/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: [X] No [ ] Yes (*Photograph and complete form*)
with openings and/or edges: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernecule
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Memmal Denning Sites
(FOD,FOM,FOC SWD, shorellnes adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: [X] No [ ] Yes (*Photograph and complete form*)
Dens present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Description of hebitat end/or evidence of use by mammals:

Reptile Hibernacula/SAR Snekes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/elver/wetlands(with Sphagnum moss or sedge hummock) present:
[X] No [ ] Yes (*Photograph and complete form*)
UTMs: Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.):
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):

Lizard Nesting Area - potential shrub
Forest with cover objects: [ ] No [X] Yes (*Photograph and complete form*)
UTMs: RBT community
Description of habitat and cover objects:

SAR Birds (with human essocietione)

Chimneys present: [X] No [ ] Yes (*Photograph and complete form*)
Barns and/or bridges present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Mooee Hebitat

Conifer Stands >50 ha: [X] No [ ] Yes (*Photograph and complete form*)
Dominated by trees >10m tall: [X] No [ ] Yes (*Photograph and complete form*)
Deep soils: [X] No [ ] Yes (*Photograph and complete form*)
Percent canopy closure:

NK1

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)	Y	Jack Pine Rock Barren
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observetions:

- 8 sandhill crane flyover NW
- Bl. Jay flyover
- Nad Crane

Other Obaervations:

Cultural Massachusetts Extension Site - [illegible] edge of lake
UTM 527527 - 5379510

Adjacent Fen + lake - Probably [illegible] to [illegible]

HENVEY INLET FIELD MAPS

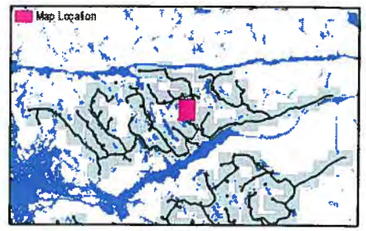
Map ID: HNV North 16

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification

Map #: N16 1094	Polygon: NK5		
Surveyor(s): J Lohman J Kamstra	Date: Oct 21, 2014	Time start: 2:43	finish: 3:00
UTMZ:	UTMZ: 527300	UTMN: 5079890	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☒ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mln.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☒ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☒ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☒ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☒ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	3	Eriophorum viridi
2	5	2	Cham / Larix leaf
3	7	4	Sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

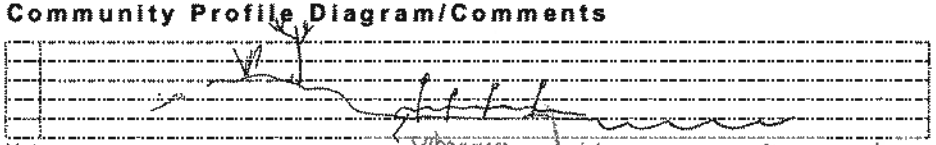
Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Open Fen Ecosite	Code:	FEO1
Vegetation Type:	Slender Sedge Open Fen Type	Code:	FEO1-2
Inclusion:	n/a	Code:	n/a
Complex:	n/a	Code:	n/a

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	0'1.						
	Moisture Regime								
	Drainage								

ELC Community Description and Classification

Map #: NH6 1094	Polygon: NK4		
Surveyor(s): J. deMan, J. Kavanagh	Date: Oct 21	Time start: 2:00	finish: 2:30
UTMZ:	UTMZ: 527300	UTMN: 5079915	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☒ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☒ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

quartzite Outcrop

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Pinus Bank >> Pinus mba = Pinus rub > Bet. pap
2	5	4	Juniperus [illegible]
3	5	1	Dep [illegible]
4	7	4	[illegible] Ch [illegible]

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-8m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	R	N
BA:	Deadfall / Logs:	R	O	O	

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Acidic Treed Rock Barren	Code:	RBT3
Vegetation Type:	Jack Pine Acidic Treed Rock Barren	Code:	RBT3-2
Inclusion:	n/a	Code:	n/a
Complex:	n/a	Code:	n/a

Community Profile Diagram/Comments



Notes:

RB

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus Banksiana	10					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

			Pit/Auger #	1			Summary
Site Metrics	UTM		Zone				Moisture Regime
			Easting				
			Northing				
	Slope		Position	mid slope			
			Aspect	South			Drainage
			Percent	~4			
			Slope Length	10m			
Depth to...			Mottles				Effective Texture (indicate below)
			Gley				
			Water Table	1m			
			Carbonates	?			
			Bedrock	5cm			

Soil Horizon Description											
	1	Depth from zero	0	5cm	% CF 0		% CF		% CF		% CF
		Texture	SL								
	2	Depth from zero	5cm+		% CF		% CF		% CF		% CF
		Texture	Bedrock								
	3	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
	4	Depth from zero			% CF		% CF		% CF		% CF
		Texture									
		% Surface Stone/Rock	0%								
	Moisture Regime										
	Drainage										

ELC Community Description and Classification	Map #: N16 1094		Polygon: NK6	
	Surveyor(s): J. deman, J. Kamstra	Date: Oct. 21, 2014	Time start: 3:15 pm finish:	
	UTMZ:	UTMZ: 527390	UTMN: 5079910	

Polygon Deecription

winter wren brown creeper

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic **Site** ☐ Open Water ☒ Shallow Water ☐ Surficial Dep. ☐ Bedrock **History** ☒ Natural ☐ Cultural **Cover** ☒ Open ☐ Shrub ☐ Treed	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☒ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☒ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☒ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	5	4	Carex utriculata
2	6	1	Leatherleaf
3	7	1	Sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 50%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	X Mid-Age	Mature	Old Growth

Ecosite:	Marsh	Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagrem/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table	[illegible] depth 0-30cm			
		Carbonates				
		Bedrock				

Soil Horizon Description									
1	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

ELC Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-8m 2 >8-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to…		Mottles					
		Gley					Effective Texture (Indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
mmon Yarrow (*Achillea millefolium*)						
ite Snakeroot (*Ageratina altissima*)						
m. Ragweed (*Ambrosia artemisiifolia*)						
ld P... ytoes (*Antennaria neglecta*)						
te						
om... urdock (*Arctium minus*)						
dding Beggar-ticks (*Bidens cernua*)						
vil's Beggar-ticks (*Bidens frondosa*)						
otted Knapweed (*Centaurea biebersteinii*)						
own Knapweed (*Centaurea jacea*)						
icory (*Cichorium intybus*)						
anada Thistle (*Cirsium arvesnse*)						
ll Thistle (*Cirsium vulgare*)						
orseweed (*Conyza canadensis*)						
aisy Fleabane (*Erigeron annus*)						
iladelphia Fleabane (*Erig. philadelphicus*)						
rigeron						
e-pye-weed (*Eupatorium maculatum*)						
oneset (*Eupatorium perfoliatum*)						
arge-leaved Aster (*Eurybia macrophylla*)						
at-top Goldenrod (*Euthamia graminifolia*)						
range Hawkweed (*Hieracium aurantiacum*)						
eld Hawkweed (*Hieracium caespitosum*)						
ieracium Scabiosa	X					
lecampane (*Inula helenium*)						
rickly Lettuce (*Lactuca serriola*)						
actuca						
x-eye Daisy (*Leucanthemum vulgare*)						
ineapple-weed (*Matricaria discoidea*)						
all White Lettuce (*Prenanthes altissima*)						
lack-eyed Susan (*Rudbeckia hirta*)						
all Goldenrod (*Solidago altissima*)						
lue-stem Goldenrod (*Solidago caesia*)						
anada Goldenrod (*Solidago canadensis*)						
ig-zag Goldenrod (*Solidago flexicaulis*)						
iant Goldenrod (*Solidago gigantea*)						
arly Goldenrod (*Solidago juncea*)	X					
ray Goldenrod (*Solidago nemoralis*)						
olidago [illegible]	X					
ield Sow-thistle (*Sonchus arvensis*)						
onchus						
eart-leaf Aster (*Symph. cordifolium*)						
eath Aster (*Symphyotrichum ericoides*)						
all White Aster (*Symph. lanceolatum*)						
alic.. Aster (*Symphyotrichum lateriflorum*)						
N... and Aster (*Symph. novae-angliae*)						
P... am Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						
Symph. macrophyll	X					

Other Dicot Herbs	1	2	3	4	5	6
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
P... Bitter-cress (*Cardamine pensylvanica*)						
...ine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia Fragaria virginiana	X					
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium [illegible]	X					
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteroi*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanginaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						
Astragalus	X					
[illegible]		X				

Monocot Herbs	1	2	3	4	5	6
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallus fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)	X					
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

...minant: represented by large numbers, generally forming >10% ground cover or >25% vegetation cover in any one stratum

***F - Fairly common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover*

***U - Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)*

***R - Rare**: represented in the polygon by less than about five individuals or small clumps*

Project:	1	NK4 Jack Pine Barren
Date: Oct 21	2	NK5 Fen
Surveyors:	3	NK6 Sedge Marsh
	4	
	5	
	6	

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
sam Fir (Abies balsamea)						
nmon Juniper (Juniperus communis)	X					
stern Red Cedar (Juniperus virginiana)						
narack (Larix laricina)		X	X			
ite Spruce (Picea glauca)	✓					
ck Spruce (Picea mariana)	X		✓			
k Pine (Pinus banksiana)	X					
d Pine (Pinus resinosa)	X					
stern White Pine (Pinus strobus)	X					
otch Pine (Pinus sylvestris)						
nada Yew (Taxus canadensis)						
stern White Cedar (Thuja occidentalis)						
stern Hemlock (Tsuga canadensis)						
Deciduous						
nitoba Maple (Acer negundo)						
rway Maple (Acer platanoides)						
d Maple (Acer rubrum)						
eman's Maple (Acer X freemanii)						
gar Maple (Acer saccharum)						
untain Maple (Acer spicatum)				✓		
eckled Alder (Alnus incana)		X	X			
wny Serviceberry (Amelanchier arborea)						
rviceberry (Amelanchier sanguinea)						
llow Birch (Betula alleghaniensis)						
hite Birch (Betula papyrifera)	X					
ue Beech (Carpinus caroliniana)						
mbing Bittersweet (Celastrus scandens)						
ttonbush (Cephalanthus occidentalis)						
-leaved Dogwood (Cornus alternifolia)						
ky Dogwood (Cornus amomum)						
nchberry (Cornus canadensis)	✓					
ay dogwood (Cornus racemosa)						
und-leaved Dogwood (Cornus rugosa)						
d-osier Dogwood (Cornus sericea)						
aked Hazel (Corylus cornuta)						
glish Hawthorn (Crataegus monogyna)						
rge-fruited Thorn (Crataegus punctata)						
ataegus						
ataegus						
sh Honeysuckle (Diervilla lonicera)	X					
merican Beech (Fagus grandifolia)						
ginia strawberry (Fragaria virginiana)						
hite Ash (Fraxinus americana)						
ack Ash (Fraxinus nigra)						
een Ash (Fraxinus pennsylvanica)						
nterberry (Ilex verticilata)						
Honeysuckle (Lonicera canadensis)						
aucous Honeysuckle (Lonicera dioica)						
orrow's Honeysuckle (Lonicera morrowii)						
rtarian Honeysuckle (Lonicera tatarica)						
mmon Apple (Malus pumila)						
eet Gale (Myrica gale)		X	X			
nwood (Ostrya virginiana)						
icket-creeper (Parthenocissus inserta)						
nebark (Physocarpus opulifolius)						
lsam Poplar (Populus balsamifera)						
rge-tooth Aspen (Populus grandidentata)						
embling Aspen (Populus tremuloides)						
n Cherry (Prunus pensylvanica)						
ack Cherry (Prunus serotina)						
oke Cherry (Prunus virginiana)						
unus						
hite Oak (Quercus alba)						
r Oak (Quercus macrocarpa)						
d Oak (Quercus rubra)						
der Buckthorn (Rhamnus alnifolia)						
mmon Buckthorn (Rhamnus cathartica)						
aghorn Sumac (Rhus hirta)						
ld Black Currant (Ribes americanum)						
ickly Gooseberry (Ribes cynosbati)	X					
vamp Black Currant (Ribes lacustre)						
d Currant (Ribes rubrum)						
bes						
ickly Rose (Rosa acicularis)	X					
nooth Rose (Rosa blanda)						
osa						
m. Blackberry (Rubus allegheniensis)						
ld Red Raspberry (Rubus idaeus)	X					
ack Raspberry (Rubus occidentalis)						
rple-fl. Raspberry (Rubus odoratus)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (Rubus pubescens)	X					
Rubus [illegible]		X				
Peach-leaved Willow (Salix amygdaloides)						
Bebb's Willow (Salix bebbiana)						
Pussy Willow (Salix discolor)						
Missouri Willow (Salix eriocephala)						
Sandbar Willow (Salix exigua)						
Shining Willow (Salix lucida)						
Slender Willow (Salix petiolaris)						
Salix [illegible]	✓					
Hybrid Crack Willow (Salix X rubens)						
Black-berried Elder (Sambucus nigra)						
Red-berried Elder (Sambucus racemosa)						
Buffaloberry (Shepherdia canadensis)						
Amer. Mountain Ash (Sorbus americana)						
Narrow Meadow-sweet (Spiraea alba)	X					
Common Lilac (Syringa vulgaris)						
Basswood (Tilia americana)						
Poison-ivy (Toxicodendron rydbergii)						
White Elm (Ulmus americana)						
Low Blueberry (Vaccinium angustifolium)	✓					
Maple-leaf Viburnum (Viburnum acerifolium)						
Hobblebush (Viburnum lantanoides)						
Nannyberry (Viburnum lentago)						
Downy Arrow-wood (Vib. rafinesquianum)						
Riverbank Grape (Vitis riparia)						
Am. Prickly-ash (Zanthoxylum americanum)						
[illegible]	X					
[illegible]	X					
[illegible]	X					
Spiraea tomentosa		X				
[illegible]		X	✓			
[illegible]		✓	X			
[illegible]		✓				
[illegible]			✓			
Ferns & Allies						
Lady Fern (Athyrium filix-femina)						
Rattlesnake Fern (Botrychium virginianum)						
Bulbet Bladder Fern (Cystopteris bulbifera)						
Spin. Wood Fern (Dryopteris carthusiana)						
Crested Wood Fern (Dryopteris cristata)						
Marginal Wood Fern (Dryopteris marginalis)	X					
Dryopteris intermedia	X					
Ostrich Fern (Matteuccia struthiopteris)						
Sensitive Fern (Onoclea sensibilis)						
Cinnamon Fern (Osmunda cinnamomea)						
Interrupted Fern (Osmunda claytoniana)						
Royal Fern (Osmunda regalis)						
Christmas Fern (Polystichum acrostichoides)						
Eastern Bracken-fern (Pteridium aquilinum)	X					
Marsh Fern (Thelypteris palustris)						
Field Horsetail (Equisetum arvense)						
Scouring-rush (Equisetum hyemale)						
Variegated Horsetail (Equisetum variegatum)						
Equisetum						
Ground-cedar (Lycopodium digitatum)						
Shining Clubmoss (Lycopodium lucidulum)						
Ground-pine (Lycopodium obscurum)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (Agrostis gigantea)						
Redtop (Agrostis stolonifera)						
Awnless Brome (Bromus inermis)						
Bromus						
Blue-joint Grass (Calamagrostis canadensis)	X					
Orchard Grass (Dactylis glomerata)						
Poverty Oat Grass (Danthonia spicata)						
Quack Grass (Elymus repens)						
Virginia Wild Rye (Elymus virginicus)						
Elymus						
Fowl Manna Grass (Glyceria striata)						
Glyceria						
Rice Cut Grass (Leersia oryzoides)						
Tall Fescue (Lolium arundinaceum)						
Muhlenbergia						
Witch-grass (Panicum capillare)						
Panicum [illegible]	✓					
Reed Canary Grass (Phalaris arundinacea)						
Timothy (Phleum pratense)						
Common Reed (Phragmites australis)						
Canada Blue Grass (Poa compressa)						
Fowl Meadow Grass (Poa palustris)						
Kentucky Bluegrass (Poa pratensis)						
[illegible]	✓					
Sedges						
Drooping Wood Sedge (Carex arctata)						
Golden-fruited Sedge (Carex aurea)						
Graceful Sedge (Carex gracillima)						
Inland Sedge (Carex interior)						
Bladder Sedge (Carex intumescens)						
Lake-bank Sedge (Carex lacustris)						
Hop Sedge (Carex lupulina)						
Pennsylvania Sedge (Carex pensylvanica)						
Awl-fruited Sedge (Carex stipata)						
Fox Sedge (Carex vulpinoidea)						
Carex utriculata		X	X			
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (Eleocharis erythropoda)						
Eleocharis						
Hard-stem Bulrush (Schoenoplectus acutus)						
Three-square Bulrush (Sch. pungens)						
Soft-stem Bulrush (Sch. tabernaemontani)						
Dark-green Bulrush (Scirpus atrovirens)						
Wool-grass (Scirpus cyperinus)						
Eriophorum virginicum		X				
Rhynchospora alba		✓	✓			
Other Graminoids						
Broad Bur-reed (Sparganium eurycarpum)						
Narrow-leaved Cattail (Typha angustifolia)						
Broad-leaved Cattail (Typha latifolia)						
Broad-leaved Cattail (Typha X glauca)						
Articulated Rush (Juncus articulatus)						
Soft Rush (Juncus effusus)						
Path Rush (Juncus tenuis)						
Juncus [illegible]			X			
Juncus						

- Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum
- Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover
- Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)
- Rare: represented in the polygon by less than about five individuals or small clumps

Project: MTO N6 Hwy	1 NK4	4	
Date: October 21/2014	2 NK5	5	
Surveyors: [illegible]	3 NK6	6	

Square 1014

Tower 25

Henvey Inlet - SWH & SAR Habitat Assessment Form

**Based on SWHTG Ecoregion E5 Criterion Schedule

AECOM

Date: October 21/2014 Map No.: HN 16

Field Staff: Kamstra + Deman Location: NK41 + NK5 + NK6

Weather Conditions: ELC Polygons: RBT + FE

Start Time: 14:00 End Time: 15:00

*** If any of the features listed below is identified, delineate it on the field map***

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat

(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: Number of nests:

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding

(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☒ No ☒ Yes (*Photograph and complete form*)

Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: 527300 / 5079875

Water depth (m): % open water: % emergent vegetation:

Description of standing water (permanent pool, evidence of annual spring flooding, etc.): pools present in fen

Area and soil/substrate of shoreline habitat:

Type of cover in open water habitat: shallow with graminoids 30 cm

Type and abundance of cover in surrounding habitat: graminoid fen

Presence of pondweeds, milfoil and/or yellow water lily: NO

Presence of peat: yes

Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: NO

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)

(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Describe substrate:

Evidence of use by swallows or falcons (provide number of nests):

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes

(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☐ No ☒ Yes (*Photograph and complete form*)

Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)

Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present: Jack Pine ?

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☐ No ☒ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☒ No ☐ Yes (*Photograph and complete form*)
UTMs: Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.):
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):

Lizard Nesting Area

Forest with cover objects: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects:

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

NK4 - NK6 NK5

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Moose feces throughout wetland at UTM 527388/5079920
Beaver channel in fen
Winter Wren
Com Raven

Other Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	14 Nov 2014	**Map No.:**	MAP North 18
Field Staff:	J. Ellis, J. Cashman	**Infrastructure:**	T74
Start Time:	12:21	**End Time:**	
Weather:	-7°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		~		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		~		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		~		
Rocky island or peninsula:		~		
Mudflat present:		~		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		~		Indicator:
Evidence of mineral lick:		~		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		~		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		~		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		~		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:	Y		527353 5881026	2 potential mammal burrows 1 under rock, 1 small round hole en route to T74
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBQ)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Across Entire Site	
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		~		
Barren with cover objects:	Y		Across Entire Site	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		~		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

OBER TRACKS: 527485/5081191 ~53 m T74
Gray Jay observed, CORA, & spruce grouse.
Moose Sect 17T 0527484, 5081154 x2

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Lrg 0826655 5081554
Mammal Trail

ELC Community Description and Classification	Map #: North 18		Polygon: F74	
	Surveyor(s): J. Ellis, J. Gail	Date: 14 Mar 2014	Time start: 12:21 finish:	
	UTMZ: 17T	UTMZ: 0527410	UTMN: 5081093	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☒ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☒ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☒ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☒ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☒ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	Carex sp. > Sheep laurel
2	6	2	Cranberry
3	7	3	Sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	NO TREES			
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Narrow leafed sedge, open Fen	Code:	FEO 1-6
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

	Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total							100
Basal Area (BA)							
Dead							

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture	Organic						
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC Community Description and Classification

Map #: North 18		Polygon:	
Surveyor(s):	Date:	Time start: finish:	
UTMZ: 17T	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial ☐ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☒ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☒ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Balsam Fir, Hemlock coniferous Forest	Code:	FOC3-2 *
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: Next to Beaver Marsh
Looper water w/ Beaver House

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 2	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description								
1	Depth from zero		% CF		% CF		% CF	% CF
	Texture							
2	Depth from zero		% CF		% CF		% CF	% CF
	Texture							
3	Depth from zero		% CF		% CF		% CF	% CF
	Texture							
4	Depth from zero		% CF		% CF		% CF	% CF
	Texture							
	% Surface Stone/Rock							
	Moisture Regime							
	Drainage							

ELC Form

Project: Henvey Inlet Date: 14 Nov 2014 Start Time: 12:30 End Time:

Field Staff: J. Ellis, J. Cashubeck Infrastructure: T74

Map No.: North 18 UTMs:

17T 0527486, 5081101

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	4	3
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	1
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	2
☐		☒	☒	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree	4	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder Dominant, winterberry, Tamarack, Carex Sp., Aster Sp., sheep laurel, Cranberry, Fern, Sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyta	7	3-4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FEO1-6	narrow-leaved sedge open fen	☑	☑	Low Shrub	5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

5275400/5081209

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamerack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2-3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWD5-2	Dry-Fresh Pop mix	☐	☑	Low Shrub	4	1
☐		☐	☑	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☑	☑	Mixed Tree	2	1

Dominant/Notable Species: Balsam fir > White Spruce > POP TREMS, BET PAP, ACER RUB > POPTREM, Blueberry, Bunchberry > Bunchberry > FERNS

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	4
☐		☑	☑	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder, Labrador tea, Bog rosemary, Sphagnum

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

* Balsam fir > white spruce dominate

similar to FEO1-6 but dominated by alder in canopy

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

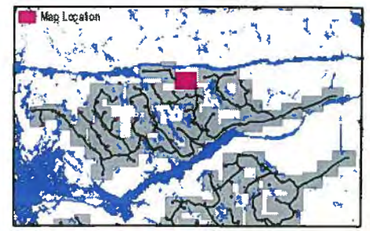
Map ID: NHV North 18

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

Nov 14, 2014
JE/JC
#73 delineation
include with map 19
field notes

* snow on the ground

10/20/2014

0 25 50 100
Meters

1:2,500

* Snow on Ground

ELC Form

Project: Henvey Inlet

Field Staff: JE/JC

Map No.: North 19

Date: 11/14/14 Start Time: 9:12 End Time: 9:45 / 11:24

Infrastructure: T119

UTMs: 0526614, 5081636

17T 526614/5081636 +1

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	2
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	1
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	4/5	3
☐		☐	☐	Tall Shrub		
☐		☐	☒	Dead Tree	2	1
☐		☒	☒	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Common Juniper > Blueberry, Grasses, Herbs

Inclusion/Complex:

17T 0526873, 5081242

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☒ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	3	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	1/6	3
☐		☐	☒	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack > Alnus Incana, Alders / leatherleaf = Carex Utric, Sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte		
☒ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	4	3
☐		☐	☒	Tall Shrub	3	3
☐		☐	☒	Dead Tree		
☐		☒	☒	Deciduous Tree	2	3
☐		☐	☒	Coniferous Tree	2	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Pop Tremu > Bet pap >> Jack pine, Bet pap, Common Juniper >> Red osier Dogwood.

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	4	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	3
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: POPTREM > BET PAP, ALNUS INCANA, Bracken fern, sphagnum, club moss

Inclusion/Complex:

17T 0526937 / 5081174

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

5216840 / 5091289 17 U

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOD3-2*	Dry Fresh poplar – jack pine mixed forest	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐ FOM5a		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid	4	3
☐ SWT3-1	Alder Organic Thicket Swamp	☑	☑	Forb	4-5	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-1*	Tamarack-Leatherleaf Bog	☐	☐	Low Shrub		
☐ BOT1a		☐	☑	Tall Shrub	3	1
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alnus incana, Carex utric, Sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Community Description and Classification

Map #: North 109	Polygon: 773		
Surveyor(s): J. Ellis, J. Cashubeer	Date: 14 nov 2014	Time start: 10'35	finish: 10:45
UTMZ: 17T	UTMZ: 0526890	UTMN: 5081289	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☒ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Pop Tree > Jack Pine > Bet Pap
2	3-4	2	Tamarack Juniper > Bet Pap > winterberry
3	5	2	Bracken Fern > Aster sp
4	6-7	2	wintergreen > Blueberry, > sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	R	N	N
BA:	Deadfall / Logs:	O	O	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry fresh Poplar, Jack Pine mixed Forest	Code:	FOM 5a 3 *
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: Transition between Rock barren & Tamarack/ Leather Leaf Bog

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
		No Prism				
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position	No Augers			
		Aspect				
		Percent				Drainage
		Slope Length				
Depth to...		Mottles				
		Gley				
		Water Table				Effective Texture (indicate below)
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
	Moisture Regime					
	Drainage					

ELC Community Description and Classification

Map #:	Polygon:		
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☑ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☐ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Plt/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject
	Inlet's Camera		

Incidental Wildlife Observations:

Common observed CORA, Vole (en route to T73)
Raven

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Turbine T73 in Bog and close proximity to Massasauga rattlesnake SLOH
suggest moving North to at least 17T [redacted] 526967/5081181

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	14 Nov 2014	**Map No.:**	North 19
Field Staff:	Julie Elks, J. Cashubac	**Infrastructure:**	T119 T73
Start Time:	9:12	**End Time:**	9:45 / 11:24
Weather:	-5°C overcast, snow on ground		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y	~~N~~	526996 5081190	Water/wetland habitat: Bog w >40cm water btw 2 rock laurels Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Across Entire site 526637/5081529 526655/5081248	RBT 3-2 potential hiber - downed tree in small bog JK to confirm potential hiber - burrows in bog & tickle/tree roots sphagnum
Massasauga gestation habitat:	Y	~~N~~	526906/5081211 526891/5081262	potential gestation rocky area & juniper cover on RBT 3-2 Good gest habitat & mixed rocks & veg cover in RBT vegetated opening Near wetland, edge habitat.
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		Across Entire Site	RBT 3-2
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

HENVEY INLET FIELD MAPS

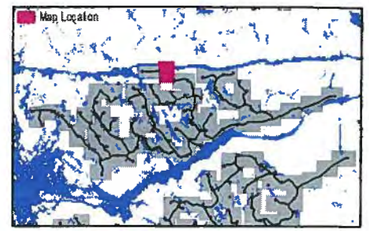
Map ID: HNV North 19

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (180m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

Nov 14, 2014
JE/JC
Snow on ground

* See Map North 18 for continued delineation of T73

10/20/2014

0 25 50 100
Meters
1:2,500

ELC Form

Project: Henvey Inlet **Date:** Oct 24, 2014 **Start Time:** 12:00 pm **End Time:** 12:15 pm

Field Staff: JD + JK **Infrastructure:**

Map No.: North 20 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☑ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☑	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAS3-1	Cattail Shallow Marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Turbine 120

ELC Community Description and Classification

Map #: North 20 T120	Polygon: NK12		
Surveyor(s): deman Kamstra	Date: Oct. 24/2014	Time start: 12:00 pm	finish: 12:15 pm
UTMZ:	UTMZ: 525623	UTMN: 5081563	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alver		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

average tree height 10-12m

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	7	2	Pinus Banksiana > Pinus strobus
2	5	3	Juniperus communis
3	6	1	Deschampsia flex = Danthonia spicata
4	7	3	Cladina stellaria > mass.

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

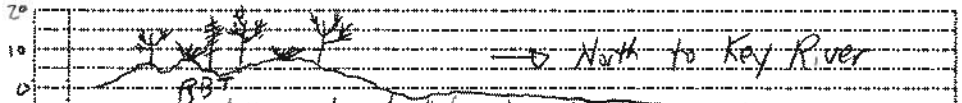
Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:	R	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	R	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Acidic Treed Rock Barren	Code:	RBT3
Vegetation Type:	Jack Pine Acidic Treed	Code:	RBT3-2
Inclusion:	Pinus strobus with Pteridium aquilinum	Code:	FOC1
Complex:	n/a and Cornus canadensis	Code:	

Community Profile Diagram/Comments



Notes: variable topography/relief. No soils, bare bedrock

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus Banksiana	2 · 12 + 21 dbh				2	
Total	2					100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	No pit - bare bedrock						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect	variable						Drainage
		Percent							
		Slope Length	variable						
Depth to...		Mottles							
		Gley							Effective Texture (indicate below)
		Water Table							
		Carbonates							
		Bedrock	at surface						
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	40%						
		Moisture Regime							
		Drainage							

Turbine 120

ELC Community Description and Classification

Map #: N20 T120	Polygon: NK13		
Surveyor(s): deMan Kamstra	Date: Oct 24, 2014	Time start: 12:15pm	finish: 1:00pm
UTMZ:	UTMZ: 525605	UTMN: 5081610	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☒ Deciduous	☒ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☒ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
		- bog in bedrock		☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	2	Pinus banksiana = Pinus strobus
2	5	4	Chamaedaphne calyculata > Kalmia angustifolia
3	5	2	Woodwardia virginica
4	4	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	N	N	N	N
BA:	Deadfall / Logs:	N	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Treed Bog	Code:	BOT1
Vegetation Type:	Black Spruce Treed Bog	Code:	BOT1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Prism Conducted.						
No trees "in"						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

										Summary
Site Metrics		Pit/Auger #	see plot UTM.							
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position	bottom							
		Aspect	0							Drainage
		Percent	0%							
		Slope Length	0							
Depth to...		Mottles								Effective Texture (indicate below)
		Gley								
		Water Table								
		Carbonates								
		Bedrock								
Soil Horizon Description	1	Depth from zero	49	% CF 0		% CF		% CF		% CF
		Texture	Of							
	2	Depth from zero	49-53+	% CF 0		% CF		% CF		% CF
		Texture	SiCoS → silty coarse sand							
	3	Depth from zero	n/a	% CF		% CF		% CF		% CF
		Texture	n/a							
	4	Depth from zero	n/a	% CF		% CF		% CF		% CF
		Texture	n/a							
		% Surface Stone/Rock	0%							
	Moisture Regime									
	Drainage									

Turbine 120

ELC Community Description and Classification

Map #: N20, T120	Polygon: NK14		
Surveyor(s): deMan + Kamstra	Date: Oct 24/14	Time start: 1:26pm	finish: 2:06pm
UTMZ:	UTMZ: 525540	UTMN: 5081623	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverina	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace, mini	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☒ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Populus tremuloides >> Pinus strobus > Prunus pensylvanica = Frax penn
2	3	4	Corylus cornuta >> Alnus incana
3	6	1	Rubus pubescens = Cornus canadensis
4	6	1	Dryopteris marginalis > Dryopteris carthusiana

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Size Class Analysis: A | A | O | N
Standing Snags: O | O | N | N
Deadfall / Logs: R | R | N | N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Dry - Fresh Poplar - white Birch Dec	Coda:	FOD3
Vegetation Type:	Dry - Fresh Poplar Deciduous Forest	Code:	FOD3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes: white pine trees are greater than 25m tall

RBT FOD marsh / thicket

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus Strobus	31, 51					
Populus tremuloides	15, 15, 18,	12, 10, 10, 25				
dead snag	30					
Fraxinus pennsylvanica	14					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

										Summary
Site Metrics		Pit/Auger #	1							
	UTM	Zona								Moisture Regime
		Easting								
		Northing								
	Slope	Position	mid slope - within mini ravine							
		Aspect	NW							Drainage
		Percent	~8%							
		Slope Length	≈ 10m							
Depth to...	Mottles		none							
	Gley		none							Effective Texture (indicate below)
	Water Table		no evidence							
	Carbonates		unknown							
	Bedrock		did not reach							
Soil Horizon Description	1	Depth from zero	leaf litter	% CF 0		% CF		% CF		% CF
		Textura	2cm							
	2	Depth from zero	2-6cm	% CF 0		% CF		% CF		% CF
		Texture	SL							
	3	Depth from zero	6-59cm	% CF 0		% CF		% CF		% CF
		Texture	Sifs w/ pyrite flecks							
	4	Depth from zero	n/a	% CF		% CF		% CF		% CF
		Texture	n/a							
		% Surface Stone/Rock	0%							
	Moisture Regime									
	Drainage									

ELC
Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:		Pioneer		Young		Mid-Age		Mature		Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Textura (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

Plant Species List

Turbine 120

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir *(Abies balsamea)*						
Common Juniper *(Juniperus communis)*	X					
Eastern Red Cedar *(Juniperus virginiana)*						
Tamarack *(Larix laricina)*		X				
White Spruce *(Picea glauca)*						
Black Spruce *(Picea mariana)*						
Jack Pine *(Pinus banksiana)*	X	X				
Red Pine *(Pinus resinosa)*						
Eastern White Pine *(Pinus strobus)*	X			X		
Scotch Pine *(Pinus sylvestris)*						
Canada Yew *(Taxus canadensis)*						
Eastern White Cedar *(Thuja occidentalis)*						
Eastern Hemlock *(Tsuga canadensis)*						
Deciduous						
Manitoba Maple *(Acer negundo)*						
Norway Maple *(Acer platanoides)*						
Red Maple *(Acer rubrum)*						
Freeman's Maple *(Acer X freemanii)*						
Sugar Maple *(Acer saccharum)*						
Mountain Maple *(Acer spicatum)*						
Speckled Alder *(Alnus incana)*		X	X			
Downy Serviceberry *(Amelanchier arborea)*						
Serviceberry *(Amelanchier sanguinea)*						
Yellow Birch *(Betula alleghaniensis)*						
White Birch *(Betula papyrifera)*	X			X		
Blue Beech *(Carpinus caroliniana)*						
Climbing Bittersweet *(Celastrus scandens)*						
Buttonbush *(Cephalanthus occidentalis)*						
Alt.-leaved Dogwood *(Cornus alternifolia)*						
Silky Dogwood *(Cornus amomum)*						
Bunchberry *(Cornus canadensis)*				X		
Gray dogwood *(Cornus racemosa)*						
Round-leaved Dogwood *(Cornus rugosa)*						
Red-osier Dogwood *(Cornus sericea)*						
Beaked Hazel *(Corylus cornuta)*				X		
English Hawthorn *(Crataegus monogyna)*						
Large-fruited Thorn *(Crataegus punctata)*						
Crataegus						
Crataegus						
Bush Honeysuckle *(Diervilla lonicera)*				X		
American Beech *(Fagus grandifolia)*						
Virginia Strawberry *(Fragaria virginiana)*						
White Ash *(Fraxinus americana)*						
Black Ash *(Fraxinus nigra)*						
Green Ash *(Fraxinus pennsylvanica)*				X		
Winterberry *(Ilex verticillata)*		X		X		
Fly Honeysuckle *(Lonicera canadensis)*						
Glaucous Honeysuckle *(Lonicera dioica)*						
Morrow's Honeysuckle *(Lonicera morrowii)*						
Tartarian Honeysuckle *(Lonicera tatarica)*						
Common Apple *(Malus pumila)*						
Sweet Gale *(Myrica gale)*			X			
Ironwood *(Ostrya virginiana)*						
Thicket-creeper *(Parthenocissus inserta)*						
Ninebark *(Physocarpus opulifolius)*						
Balsam Poplar *(Populus balsamifera)*						
Large-tooth Aspen *(Populus grandidentata)*	X					
Trembling Aspen *(Populus tremuloides)*	X			X		
Pin Cherry *(Prunus pensylvanica)*				X		
Black Cherry *(Prunus serotina)*		X		X		
Choke Cherry *(Prunus virginiana)*						
Prunus						
White Oak *(Quercus alba)*						
Bur Oak *(Quercus macrocarpa)*						
Red Oak *(Quercus rubra)*						
Alder Buckthorn *(Rhamnus alnifolia)*						
Common Buckthorn *(Rhamnus cathartica)*						
Staghorn Sumac *(Rhus hirta)*						
Wild Black Currant *(Ribes americanum)*						
Prickly Gooseberry *(Ribes cynosbati)*						
Swamp Black Currant *(Ribes lacustre)*						
Red Currant *(Ribes rubrum)*						
Ribes						
Prickly Rose *(Rosa acicularis)*						
Smooth Rose *(Rosa blanda)*						
Rosa						
Com. Blackberry *(Rubus allegheniensis)*			X	X		
Wild Red Raspberry *(Rubus idaeus)*			X	X		
Black Raspberry *(Rubus occidentalis)*						
Purple-fl. Raspberry *(Rubus odoratus)*						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry *(Rubus pubescens)*				X		
Rubus						
Peach-leaved Willow *(Salix amygdaloides)*						
Bebb's Willow *(Salix bebbiana)*						
Pussy Willow *(Salix discolor)*						
Missouri Willow *(Salix eriocephala)*						
Sandbar Willow *(Salix exigua)*						
Shining Willow *(Salix lucida)*						
Slender Willow *(Salix petiolaris)*				X		
Salix humilis	X					
Hybrid Crack Willow *(Salix X rubens)*						
Black-berried Elder *(Sambucus nigra)*						
Red-berried Elder *(Sambucus racemosa)*						
Buffaloberry *(Shepherdia canadensis)*						
Amer. Mountain Ash *(Sorbus americana)*						
Narrow Meadow-sweet *(Spiraea alba)*				XX		
Common Lilac *(Syringa vulgaris)*						
Basswood *(Tilia americana)*						
Poison-Ivy *(Toxicodendron rydbergii)*						
White Elm *(Ulmus americana)*						
Low Blueberry *(Vaccinium angustifolium)*	X			X		
Maple-leaf Viburnum *(Viburnum acerifolium)*						
Hobblebush *(Viburnum lantanoides)*						
Nannyberry *(Viburnum lentago)*						
Downy Arrow-wood *(Vib. rafinesquianum)*						
Riverbank Grape *(Vitis riparia)*						
Am. Prickly-ash *(Zanthoxylum americanum)*						
Gaultheria spec.	X					
Gaylussacia						
Kalmia angust		X				
Arctostaphylos		X				
Oxycoccus macro		X				
Chimaphila phyl		X				
Aralia hispida	X					

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
Common Yarrow (*Achillea millefolium*)						
White Snakeroot (*Ageratina altissima*)						
Com. Ragweed (*Ambroaia artemisiifolia*)						
Field Pussytoes (*Antennaria neglecta*)						
Artemisia						
Common Burdock (*Arctium minus*)						
Nodding Beggar-ticks (*Bidens cernua*)						
Devil's Beggar-ticks (*Bidens frondosa*)						
Spotted Knapweed (*Centaurea biebersteinii*)						
Brown Knapweed (*Centaurea jacea*)						
Chicory (*Cichorium intybus*)						
Canada Thistle (*Cirsium arvesnse*)						
Bull Thistle (*Cirsium vulgare*)						
Horseweed (*Conyza canadensis*)						
Daisy Fleabane (*Erigeron annus*)						
Philadelphia Fleabane (*Erig. philadelphicus*)						
Erigeron						
Joe-pye-weed (*Eupatorium maculatum*)						
Boneset (*Eupatorium perfoliatum*)						
Large-leaved Aster (*Eurybia macrophylla*)				X		
Flat-top Goldenrod (*Euthamia graminifolia*)						
Orange Hawkweed (*Hieracium aurantiacum*)						
Field Hawkweed (*Hieracium caespitosum*)						
Hieracium						
Elecampane (*Inula helenium*)						
Prickly Lettuce (*Lactuca serriola*)						
Lactuca						
Ox-eye Daisy (*Leucanthemum vulgare*)						
Pineapple-weed (*Matricaria discoidea*)						
Tall White Lettuce (*Prenanthes altissima*)						
Black-eyed Susan (*Rudbeckia hirta*)						
Tall Goldenrod (*Solidago altissima*)						
Blue-stem Goldenrod (*Solidago caesia*)						
Canada Goldenrod (*Solidago canadensis*)						
Zig-zag Goldenrod (*Solidago flexicaulis*)						
Giant Goldenrod (*Solidago gigantea*)						
Early Goldenrod (*Solidago juncea*)						
Gray Goldenrod (*Solidago nemoralis*)						
Solidago rugosa				X		
Field Sow-thistle (*Sonchus arvensis*)						
Sonchus						
Heart-leaf Aster (*Symph. cordifolium*)						
Heath Aster (*Symphyotrichum ericoides*)						
Tall White Aster (*Symph. lanceolatum*)						
Calico Aster (*Symphyotrichum lateriflorum*)						
New England Aster (*Symph. novae-angliae*)						
Purple-stem Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						
Aster umbellata				X		

Other Dicot Herbs	1	2	3	4	5	6
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteara*)						
Pearly Everlasting (*Anaphalia margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
Penn. Bitter-cress (*Cardamine pensylvanica*)						
Cardamine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza bertenii*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanginaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium sueve*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						
Corydalis sempr	X					
Trientalis borealis				X		
Fragaria virg				X		

Monocot Herbs	1	2	3	4	5	6
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallus fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonetum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

D - Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum

F - Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover

U - Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)

R - Rare: represented in the polygon by less than about five individuals or small clumps

Project:	1		4	
Date:	2		5	
Surveyors:	3		6	

Turbine 120

Henvey Inlet - SWH & SAR Habitat Assessment Form

AECOM

**Based on SWHTG Ecoregion E5 Criterion Schedule

Date:	Oct 24/2014	Map No.:	North 20
Field Staff:	Kowalski + Deman	Location:	Turbine 120
Weather Conditions:	10°C, sunny and partly cloudy	ELC Polygons:	RBT, FOD, MAS, BOT
Start Time:	11:30am	End Time:	2:00pm

****** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Oaprey Breeding/Faading, Bald Eagle Breeding/Nasting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (locetion, e.g. in tree/on built structure; meterial; evidence of recent use; birds present):

Description of hebitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: [ ] No [X] Yes (*Photograph and complete form*)
Aquetic food supply present (invertebrates/vegetation): [X] No - not apparent [ ] Yes (*Photograph and complete form*)
UTMs: 525550/5081550 525570/5081515
Water depth (m): 30cm % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.):
1st Mossy pool 2x 7m in depression among Jack Pine, some amphibian potential but marginal habitat sufficient hydroperiod
Aree and soil/substrate of shoreline habitat: 2nd location similar area. (both marginal) notes continued on page 3.
Type of cover in open water habitat:
Type end abundance of cover in surrounding hebitat:
Presence of pondweeds, milfoil and/or yellow water lily:
Presence of peat:
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), mersh breeding birds:

Colonial Neeting Bird Breading Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Describe substrate: _____
Evidence of use by swallows or falcons (provide number of nests): _____

Colonial Nasting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtla Naating Araa/SAR Snakee
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: [X] No [X] Yes (*Photograph and complete form*) ~~cattail/sedge marsh~~
Rocky island or peninsula present: [X] No [ ] Yes (*Photograph and complete form*)
Mudflat present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):
small cattail / sedge marsh present

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: [X] No [ ] Yes (*Photograph and complete form*)
Description (e.g. indicator sp):

Evidence of mineral lick: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Meet Producing Arees/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: [X] No [ ] Yes (*Photograph and complete form*)
with openings and/or edges: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: [X] No [ ] Yes (*Photograph end complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Memmel Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: [X] No ← [X] Yes (*Photograph and complete form*) Marsh
Dens present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by memmals:
No habitat

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, Ra, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
[ ] No [X] Yes (*Photograph and complete form*)
UTMs: 525623 / 5081563 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.): Potential MASS gestation
Juniper w boulders
Description of surrounding habitat (type & abundence of cover, evidence of disturbance, etc.):

Lizerd Nesting Area

Forest with cover objects: [ ] No [X] Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: Potential Skink habitat, occasional cover rocks

SAR Birds (with human associations)

Chimneys present: [X] No [ ] Yes (*Photograph and complete form*)
Barns and/or bridges present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs:
Description of habitat end nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: [X] No [ ] Yes (*Photograph and complete form*)
Dominated by trees >10m tall: [X] No [ ] Yes (*Photograph and complete form*)
Deep soils: [X] No [ ] Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 120

Rare Vagetation Community	Preaant (Y/N)	Notes/Daacription
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)	Yes	Jack Pine RBT
Old Growth Forest		
Bog	Yes	Leatherleaf with Jack Pine Bog
Rare Forast Typa - Jack Pine		
Rare Forast Type - Red Spruce		
Rare Forast Typa – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
refer to Turbine 120	amphibian pool		
photo file	gestation site		
	Sedge marsh		

Incidental Wildlife Obaarvationa:

Cow Raven, R. B. Nuthatch

Moose feces – 525630/5081560

Othar Obsarvations:

Terrain is more undulating than any other Turbine sites so far

Cattail/Sedge Marsh at UTM – 525500/5081610 – contains rather extensive standing water upto 30cm deep, good potential amphibian breeding site

HENVEY INLET FIELD MAPS

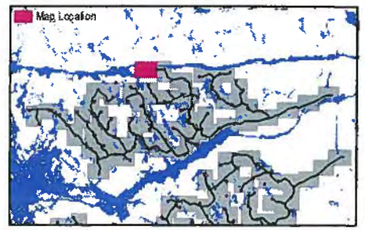
Map ID: NHV North 20

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

- Draw lines w/ relief polygon

10/20/2014

0 25 50 100
Meters
1:2,500

HENVEY INLET FIELD MAPS

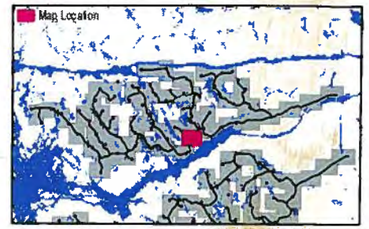
Map ID: HNV North 23

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	Nov 14/2014	**Map No.:**	N23, Turbine 15
Field Staff:	T. Shorney, J. Deman	**Infrastructure:**	Turbine 15
Start Time:	1:00 pm	**End Time:**	2:00 pm
Weather:	Partly cloudy, 10C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		17T0527467/5078867 17T0527562/5078843	BOT BOT
Massasauga gestation habitat:	Y		17T0527542/5078841 17T0527503/5078840	- Cropped rocks within Barren. - centre of turbine location
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		17T0527543/5078852	RBT - small rocks throughout within Barren.
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

None.

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Turbine location is over top gestation habitat for Massasauga rattlesnake. Consider moving turbine to alternative location on the Rock Barren Community (RBT 3-2).

Other Comments/Observations:

ELC Form

Project: Henvey Inlet
Date: NOV. 14, 2014 Start Time: 1:00pm End Time: 2:00pm
Field Staff: T. Shorney, J. Deman Infrastructure: Turbine 15
Map No.: N23 Turbine 15 UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17T 0527484/5073857 (WP86) Sand pine diamond & Juniper
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☑ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☑ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	5	4
☐		☐	☑	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17T 0527467/5073887 BOT1-1 Sand organic 80cm
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m
CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: **7** = <0.2 m **6** = >0.2 – 0.5 m **5** = >0.5 – 1 m **4** = >1 – 2 m **3** = >2 – 6 m **2** = >6 – 25 m **1** = >25 m

CVR: **0** = None **1** = 0% – 10% **2** = 10% – 25% **3** = 25% – 60% **4** = >60%

AECOM

ELC Form

Project: Henvey Inlet
Field Staff: T. Storney, J. deman
Map No.: NJ23 Turbine 100

Date: Nov. 14/2014 Start Time: 8:15am End Time: 9:30am
Infrastructure: T 100
UTMs: 17T 0527943 5078628

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Foresl	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine Blueberry
DT 527927 / 5078622
Inclusion/Complex: SWT 3-1

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	1
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Foresl	☐	☐	Dead Shrub		
☒ SWD5-2	Black Ash Swamp	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☒	☒	Deciduous Tree	2	4
☐		☐	☒	Coniferous Tree	6	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Black Ash
Balsam Fir
DT 527981 5078637
Inclusion/Complex: N/A

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb	3	5
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Foresl	☐	☐	Dead Shrub		
☒ FOM5-1	Mixed Poplar - Pine	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☒	Dead Tree		
☐		☐	☒	Deciduous Tree	2	4
☐		☐	☒	Coniferous Tree	4	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See attached full ELC form.
Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	5	5
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	1
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☒ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOD		☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	3
☐		☐	☐	Dead Tree		
☐		☒	☒	Deciduous Tree	2	4
☐		☐	☒	Coniferous Tree		1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Trembling aspen → White Spruce = white pine
Inclusion/Complex: n/a

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC
Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	☐ <10	☐ 10-24	☐ 25-50	☐ >50
	Standing Snags:	☐ <10	☐ 10-24	☐ 25-50	☐ >50
BA:	Deadfall / Logs:	☐ <10	☐ 10-24	☐ 25-50	☐ >50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

										Summary
Site Metrics		Pit/Auger #								
	UTM	Zone								
		Easting								Moisture Regime
		Northing								
	Slope	Position								
		Aspect								
		Percent								Drainage
		Slope Length								
Depth to...		Mottles								
		Gley								
		Water Table								Effective Texture (indicate below)
		Carbonates								
		Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Community Description and Classification

Map #: HNV 23	Polygon: T190		
Surveyor(s): T. Storey, J. deMan	Date: Nov. 14, 2014	Time start: 8:30am	finish: 9:30am
UTMZ: 17T	UTMZ: 0527955	UTMN: 5078619	

MP 72

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☒ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	T	T	Pinus strobus >> Pinus resinosa
2	2	4	Poplar tremuloides >> Betula papyrifera >> Picea glauca
3	4	2	Quercus rubra
4	3	5	Bracken fern

HT Codes: 7 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

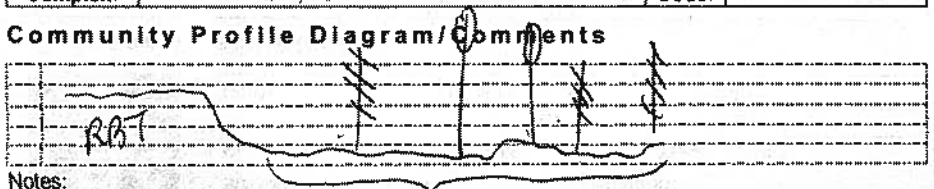
Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Dry-Fresh White Birch-Poplar-Conifer	Code:	Form 5
Vegetation Type:	Dry-Fresh Poplar Mixed Forest Type	Code:	Form 5-2
Inclusion:	n/a	Code:	
Complex:	n/a.	Code:	

Community Profile Diagram/Comments



Notes:

Form 5-2

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Poplar sp.	9 4 0 19 35 35 6					
Shag	23					
Pinus strobus	50, 54					
Pinus resinosa	49					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect	Southeast						
		Percent	0-1%						Drainage
		Slope Length	10m						
Depth to...	Mottles		none						
	Gley		none						Effective Texture (indicate below)
	Water Table		none						
	Carbonates		n/a						
	Bedrock		n/a.						

Soil Horizon Description												
	1	Depth from zero	0-8cm	% CF 0		% CF		% CF		% CF		% CF
		Texture	Humic									
	2	Depth from zero	8-23cm	% CF 0		% CF		% CF		% CF		% CF
		Texture	SiMS									
	3	Depth from zero	23-38cm	% CF 10 - 40mm angular gravel		% CF		% CF		% CF		% CF
		Texture	mS.									
	4	Depth from zero		% CF		% CF		% CF		% CF		% CF
		Texture										
		% Surface Stone/Rock	0%									
	Moisture Regime											
	Drainage											

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	Nov. 14, 2014	**Map No.:**	HNV L3
Field Staff:	T. Shorney, J. deMan	**Infrastructure:**	T 100
Start Time:	8:15 am	**End Time:**	9:30 am
Weather:	cloudy 90%, 0°C		

Tonia camera

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: vernal pond in FOM	Y		17T 527960 5078629 17T 527981 5078637	Water/wetland habitat: vernal pool 5-8m long x 3m wide 20-30cm deep / also standing water in SWD community pic 540-545 Soil/peat: mineral soil pic 531 (Tonia camera) -532
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed: large vernal pond in SWT 3-1 inclusion 17T 0527928 5078588 [illegible] photos 547-551
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		17T 527981 5078637	SWM - ash trees have lots of pileated holes
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:	Y		17T 0527966 5078628	smooth/rounded shelves, different sections. photos 533-537
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		through RBT 3-2	
Massasauga gestation habitat:				
Skink Habitat/Nesting Area				
Forest with cover objects:	Y	N	throughout RBT 3-2	
Barren with cover objects:	Y			
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

bandit of chickadees
red squirrel

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

T 100 should be moved to top of RBT 3.2 community - right now on slope to FOM5.2

Other Comments/Observations:

no other comments

HENVEY INLET FIELD MAPS

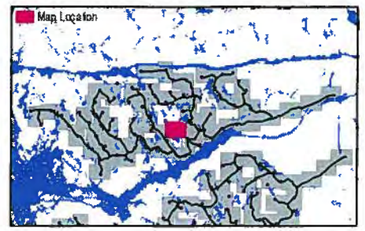
Map ID: HNV North 24

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

526600 526800 527000 527200 527400

5079400 5079200 5079000

FET1 MAS3-1 RBT3-2 FEO1 OA MAS3 MAM3 SWC4

ELC Form

Project: Henvey Inlet Date: Nov. 14 /2014 Start Time: 10:30 am End Time: 1209pm

Field Staff: T. Shorney, J. Deman Infrastructure: T 111

Map No.: North 24 Turbine 111 UTMs: 17T 0526947 5079256

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☑	☐	Robust Emergent	5	4
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAS3-1	Cattail Marsh with Willow mix	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17T 526934 / 5079320 Fringed with Leatherleaf, Cranberry & Sheep Laurel

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17T 0526990 / 5079272 Leatherleaf dominant Organic ~ 100+cm deep

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	6	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex: Gimped Barren RBS1-1

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☒	Robust Emergent	5	3
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☒	Broad Leaved Emergent	6	3
☐ BOT1a	Tamarack Cran Fern Bog	☐	☒	Narrow Leaved Emergent	6	3
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAM3	Organic Meadow Marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Mix of cattail, sedge and rush.

Inclusion/Complex: n/a.

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: _____ Start Time: _____ End Time: _____

Field Staff: _____ Infrastructure: _____

Map No.: _____ UTMs: _____

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	NOV 14 / 2014	**Map No.:**	North 24 Turbine 111
Field Staff:	T. Shorney, J. Deman	**Infrastructure:**	Till
Start Time:	10:30 am	**End Time:**	12:00 pm
Weather:	Partly Sunny, -1°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		17T 526897 5079249 17T 0526912 5079200	Water/wetland habitat: Pool within RBT – 50cm Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:	Y	N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Throughout RBT	Throughout RBT
Massasauga gestation habitat:	Y		17T 0526935 5079205	Juniper Barren
Skink Habitat/Nesting Area				
Forest with cover objects:	Y	N		
Barren with cover objects:	Y			Throughout RBT Community
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

17T 0526889 5079201 - Bear grubbing CWP76

- BBCH, COLA, GRJA

17T 0526946 5079206 - Bear grubbing CWP79

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

17T 0527003 5079249 - Wetland plant

using Nick's camera

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov. 13, 2014	**Map No.:**	HNV North 25
Field Staff:	N. Hodges, J. deMan	**Infrastructure:**	Turbine 91
Start Time:	9:10 am	**End Time:**	9:45 am
Weather:	Sunny, cloud cover zero - dusting of snow on ground		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff; Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:				
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		527390 5078184	black spruce bog w/ deep (≈1m) peat. (BOT)
Massasauga gestation habitat:	Y		527374 5078195	photo 61, 62 - rock island in middle of BOT w/ shrubs & young black spruce.
Skink Habitat/Nesting Area				
Forest with cover objects:				
Barren with cover objects:	Y		0527424 5078213	flat rocks, 30-50cm in length on barren by jungle stretch
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject – Nick's camera	Photo #	Location or Subject
60	skink cover rocks on barren		
56-59	bog		
50-55	general site photo		

Incidental Wildlife Observations:

hear squirrel

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

- recommend road to avoid Black Spruce Bog.
T91

Other Comments/Observations:

- no additional comments

ELC Form

Project: Henvey Inlet Date: Nov. 13, 2014 Start Time: 9:05 am End Time: 9:45 am

Field Staff: N. Hodge, J. deman, Colin Lammi Infrastructure: Turbine 91

Map No.: HNV North 25 UTMs: 17T 0527424 5078213

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☒	Dead Tree	5	1
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine dominant canopy, common Juniper, Common Labrador Tea

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☒ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	4 (90%)
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Black Spruce, Laurel, leatherleaf, sphagnum moss

Inclusion/Complex: 1) Soil Pit 1: 38cm to bedrock; 2) peat to 70cm; 120cm to coarse Sand; 3) 100cm to bedrock

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☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
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☐		☐	☐	Dead Tree		
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☐		☐	☐	Deciduous Tree		
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Dominant/Notable Species	Inclusion/Complex

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		Dominant	Present	Form		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

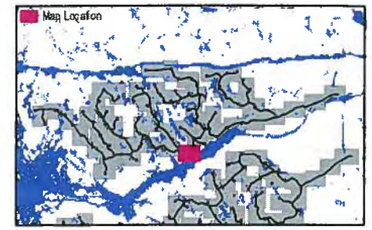
Map ID: HNV North 25

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet
Field Staff: N. Hodge, J. deMan, C. Lammi
Map No.: HNV North 27

Date: November 13, 2014 **Start Time:** 11 am **End Time:**
Infrastructure: Turbine 99
UTMs: 17T 0526639 5078778

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fen Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	1	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	1	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree	5	1
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, common juniper
Inclusion/Complex: n/a

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ BOT1c	Tamarack black spruce Bog	☐	☒	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: BOT1 0526679 5078804 – 0m-1pt to 06m Tamarack Black Spruce Bog Bog rosemary + leatherleaf laurel, sphagnum – dominant for 1.0m x 0.5m
Inclusion/Complex: n/a

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
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☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	1	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	4
☐ BOT1c	Tamarack-Leatherleaf	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: part of a large wetland system
Tamarack, leatherleaf, black spruce
Inclusion/Complex: n/a

3 soil pits – 120+ peat, 0m | cotton grass, rabbitsplant – water at surface

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
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Dominant/Notable Species:
Inclusion/Complex:

Code **HT:** 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

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AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov. 13, 2014	**Map No.:**	HNV North 27
Field Staff:	N. Hodgins, J. deMan	**Infrastructure:**	Turbine 99
Start Time:	11am	**End Time:**	12:35 pm
Weather:	Sunny, no cloud 5°C - 4°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky Island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:	Y		0526625 5078779	rock ledge/cave ± 3m × 3m × 50cm high photos # 76-80
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		throughout	- fissured rock is consistent through community
Massasauga gestation habitat:	Y		0526611 5078784	- north facing rock cave, shrubs, trees adjacent to bog Picture 81
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		0526651 5078794	angular rocks piled/scattered adjacent to jack pine + Common Juniper
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Iniet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject - Nick's camera	Photo #	Location or Subject
64-68	rep photos of site	81	gestation habitat
69	skink / quarry	82-83	Pitcher plant
70-72	BoT		
73-74	rep photo		
75	Feldspar vein		
76-80	rock cavern		

Incidental Wildlife Observations:

moose scat fresh 0526633 5078794

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

- potential cave near turbine

Other Comments/Observations:

no other comments

HENVEY INLET FIELD MAPS

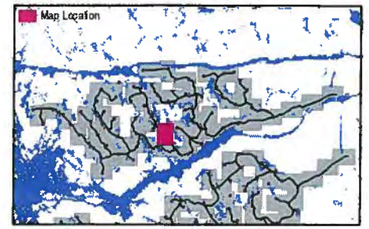
Map ID: HNV North 27

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

* rock ledge / cave - pot. bat / de habitat

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet
Field Staff: N. Hodges, J. deMan
Map No.: HNV North 28

Date: November 13, 2014 Start Time: 2:20 pm End Time: 3:20 pm
Infrastructure: Turbine 101
UTMs: 17T 0526026 5079213

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	6	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Common Juniper
Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FRB 4 leather leaf		☒	☒	Low Shrub	6	4
☐		☐	☐	Tall Shrub		
☐		☐	☒	Dead Tree	3	2
☐		☐	☒	Deciduous Tree		
☐		☐	☒	Coniferous Tree	3	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
- sphagnum hummocks w/ leatherleaf + cotton grass
- large amount of dead tamarack, cotton grass
Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Community Description and Classification

Map #: HNV North 28	Polygon:		
Surveyor(s):	Date:	Time start:	2:20pm
		finish:	3:29pm
UTMZ: 17T	UTMZ: 0526026	UTMN: 5079213	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☒ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☒ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☒ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous Shrub	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☒ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	2	Labrad. tamarack >> black spruce
2	6	4	leatherleaf
3	6	2	Cottongrass
4	7	4	sphagnum hummocks

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

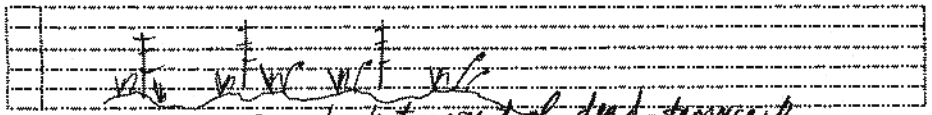
Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☐ Mature	☒ Old Growth

Ecosite:	Shrub Fen Ecosite	Code:	FES1
Vegetation Type:	Leatherleaf - Forb Shrub Fen Type	Code:	FES1-4
Inclusion:	n/a	Code:	n/a
Complex:	n/a	Code:	n/a

Community Profile Diagram/Comments



Notes: an abundant amount of dead tamarack

Tree Tally by Species

Prism Factor: 2

	Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total							100
Basal Area (BA)							
Dead							

Soils Dntario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #	Water too deep to conduct				
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					Drainage
		Aspect					
		Percent					
		Slope Length					
Depth to...		Mottles					Effective Texture (indicate below)
		Gley					
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site	History	Cover
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock	☐Natural ☐Cultural	☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snags:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Plt/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
	Moisture Regime					
	Drainage					

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov. 13, 2014	**Map No.:**	HNV North 28
Field Staff:	J. Mac N. Hodges	**Infrastructure:**	T101
Start Time:	2:00	**End Time:**	3:17
Weather:	Sunny 5°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y			Water/wetland habitat: FES/OAO Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:	Y		17T 0526015 5079173	small cavern adjacent to wetland
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		0526010 5079156	along wetland w/ water exposure. Large boulders w/ crevices.
Massasauga gestation habitat:	Y		0526102 5079141	- south facing slope, fissured rock, adjacent to wetland, tree, shrub & cave
Skink Habitat/Nesting Area				
Forest with cover objects:	Y	N		
Barren with cover objects:	Y		RBT 3-2	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%				
Old Growth Forest				
Rare Forest Type – Jack Pine				
Rare Forest Type – White Oak				
Rare Forest Type – White Oak				

Photo #	Location or Subject	Photo #	Location or Subject
94-99	rep photos (Feb		
100-105	Fen		
103, 105	gestation		

Incidental Wildlife Observations:

Whiskey jack

Comments Regarding Proposed Infrastructure Relocation (Including UTMs of suggested new locations):

Keep turbine on RBT - large expanse of marsh below

Other Comments/Observations:

no further comment

HENVEY INLET FIELD MAPS

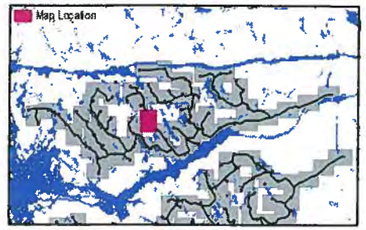
Map ID: HNV North 28

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

mosaic of rock RBT + BOT

HENVEY INLET FIELD MAPS

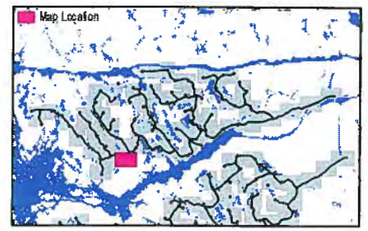
Map ID: HNV North 33

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Turbine 13

ELC Community Description and Classification

Map #: N33 T13		Polygon: NK11	
Surveyor(s): Kamstra deMon	Date: Oct. 23/14	Time start: 3:51pm	finish: 4:20pm
UTMZ:	UTMZ: 525250	UTMN: 5077958	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Pinus banksiana >> Picea mariana
2	6	3	Ledum groenladicum = Juniperus communis
3	7	3	mosses = lichens
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
		0	0	N	N	N
BA:	Standing Snags:	R	R	N	N	N
	Deadfall / Logs:	R	N	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Acidic Treed Rock Barren	Code:	RBT3
Vegetation Type:	Jack Pine Acidic Treed Rock Barren	Code:	RBT3-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes: Variable ground

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Picea mariana	21, 22					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	no soil pit, plot on bare rock						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							
		Water Table							Effective Texture (indicate below)
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	40%						
		Moisture Regime							
		Drainage							

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time *start:* / *finish:*
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site	History	Cover
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock	☐Natural ☐Cultural	☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							Effective Texture (indicate below)
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero	% CF		% CF		% CF		% CF
		Texture							
	2	Depth from zero	% CF		% CF		% CF		% CF
		Texture							
	3	Depth from zero	% CF		% CF		% CF		% CF
		Texture							
	4	Depth from zero	% CF		% CF		% CF		% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
mmon Yarrow (*Achillea millefolium*)						
te Snakeroot (*Ageratina altissima*)						
n. Ragweed (*Ambrosia artemisiifolia*)						
d F[illegible]oes (*Antennaria neglecta*)						
en[illegible]						
mm[illegible]rdock (*Arctium minus*)						
dding Beggar-ticks (*Bidens cernua*)						
vil's Beggar-ticks (*Bidens frondosa*)						
otted Knapweed (*Centaurea biebersteinii*)						
own Knapweed (*Centaurea jacea*)						
icory (*Cichorium intybus*)						
nada Thistle (*Cirsium arvesnse*)						
l Thistle (*Cirsium vulgare*)						
rseweed (*Conyza canadensis*)						
ay Fleabane (*Erigeron annus*)						
iladelphia Fleabane (*Erig. philadelphicus*)						
igeron						
e-pye-weed (*Eupatorium maculatum*)						
neset (*Eupatorium perfoliatum*)						
rge-leaved Aster (*Eurybia macrophylla*)						
at-top Goldenrod (*Euthamia graminifolia*)						
ange Hawkweed (*Hieracium aurantiacum*)						
eld Hawkweed (*Hieracium caespitosum*)						
eracium						
ecampane (*Inula helenium*)						
ickly Lettuce (*Lactuca serriola*)						
ctuca						
x-eye Daisy (*Leucanthemum vulgare*)						
neapple-weed (*Matricaria discoidea*)						
ll White Lettuce (*Prenanthes altissima*)						
ack-eyed Susan (*Rudbeckia hirta*)						
ll Goldenrod (*Solidago altissima*)						
lue-stem Goldenrod (*Solidago caesia*)						
nada Goldenrod (*Solidago canadensis*)						
g-zag Goldenrod (*Solidago flexicaulis*)						
ant Goldenrod (*Solidago gigantea*)						
arty Goldenrod (*Solidago juncea*)						
ray Goldenrod (*Solidago nemoralis*)						
olidago						
eld Sow-thistle (*Sonchus arvensis*)						
onchus						
leart-leaf Aster (*Symph. cordifolium*)						
leath Aster (*Symphyotrichum ericoides*)						
ll White Aster (*Symph. lanceolatum*)						
alle[illegible]ter (*Symphyotrichum lateriflorum*)						
le[illegible]nd Aster (*Symph. novae-angliae*)						
urp[illegible]n Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						

Other Dicot Herbs						
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliana petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
Pe[illegible]tter-cress (*Cardamine pensylvanica*)						
C[illegible]ine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Cheloba glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteni*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanguinaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cresa (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						

Monocot Herbs						
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallis fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagitteria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

D - Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum

F - Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover

U - Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)

R - Rare: represented in the polygon by less than about five individuals or small clumps

Project:	1	RBT		4		
Date:	2	BOT		5		
Surveyors:	3			6		

Transect 13

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
am Fir (*Abies balsamea*)						
mon Juniper (*Juniperus communis*)	x					
tern Red Cedar (*Juniperus virginiana*)						
arack (*Larix laricina*)		x				
te Spruce (*Picea glauca*)						
k Spruce (*Picea mariana*)	x	x				
Pine (*Pinus banksiana*)	x					
Pine (*Pinus resinosa*)						
tern White Pine (*Pinus strobus*)						
ch Pine (*Pinus sylvestris*)						
ada Yew (*Taxus canadensis*)						
tern White Cedar (*Thuja occidentalis*)						
tern Hemlock (*Tsuga canadensis*)						
Deciduous						
itoba Maple (*Acer negundo*)						
way Maple (*Acer platanoides*)						
Maple (*Acer rubrum*)						
eman's Maple (*Acer X freemanii*)						
ar Maple (*Acer saccharum*)						
ntain Maple (*Acer spicatum*)						
ckled Alder (*Alnus incana*)						
ny Serviceberry (*Amelanchier arborea*)						
viceberry (*Amelanchier sanguinea*)						
ow Birch (*Betula alleghaniensis*)						
te Birch (*Betula papyrifera*)	x					
s Beech (*Carpinus caroliniana*)						
nbing Bittersweet (*Celastrus scandens*)						
tonbush (*Cephalanthus occidentalis*)						
-leaved Dogwood (*Cornus alternifolia*)						
y Dogwood (*Cornus amomum*)						
chberry (*Cornus canadensis*)						
y dogwood (*Cornus racemosa*)						
und-leaved Dogwood (*Cornus rugosa*)						
d-osier Dogwood (*Cornus sericea*)						
aked Hazel (*Corylus cornuta*)						
glish Hawthorn (*Crataegus monogyna*)						
ge-fruited Thorn (*Crataegus punctata*)						
taegus						
taegus						
h Honeysuckle (*Diervilla lonicera*)						
erican Beech (*Fagus grandifolia*)						
ginia strawberry (*Fragaria virginiana*)						
ite Ash (*Fraxinus americana*)						
ck Ash (*Fraxinus nigra*)						
en Ash (*Fraxinus pennsylvanica*)						
nterberry (*Ilex verticillata*)						
Honeysuckle (*Lonicera canadensis*)						
ucous Honeysuckle (*Lonicera dioica*)						
rrow's Honeysuckle (*Lonicera morrowii*)						
tarian Honeysuckle (*Lonicera tatarica*)						
mmon Apple (*Malus pumila*)						
eet Gale (*Myrica gale*)						
nwood (*Ostrya virginiana*)						
cket-creeper (*Parthenocissus inserta*)						
ebark (*Physocarpus opulifolius*)						
sam Poplar (*Populus balsamifera*)						
ge-tooth Aspen (*Populus grandidentata*)						
mbling Aspen (*Populus tremuloides*)						
Cherry (*Prunus pensylvanica*)						
ck Cherry (*Prunus serotina*)						
oke Cherry (*Prunus virginiana*)						
nus						
ite Oak (*Quercus alba*)						
Oak (*Quercus macrocarpa*)						
d Oak (*Quercus rubra*)						
ler Buckthorn (*Rhamnus alnifolia*)						
mmon Buckthorn (*Rhamnus cathartica*)						
ghorn Sumac (*Rhus hirta*)						
ld Black Currant (*Ribes americanum*)						
ckly Gooseberry (*Ribes cynosbati*)						
amp Black Currant (*Ribes lacustre*)						
d Currant (*Ribes rubrum*)						
es						
ckly Rose (*Rosa acicularis*)						
ooth Rose (*Rosa blanda*)						
sa						
m. Blackberry (*Rubus allegheniensis*)						
ld Red Raspberry (*Rubus idaeus*)						
ack Raspberry (*Rubus occidentalis*)						
pple-l. Raspberry (*Rubus odoratus*)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)						
Rubus						
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)						
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)						
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Gaylussacia	x	x				
Rubus, unspec.						
Prunus virginiana		x				
Gaultheria procumbens		x				
Rhamnus alnifolia		x				
Ledum groenlandicum	x					
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)						
Crested Wood Fern (*Dryopteris cristata*)						
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)						
Sensitive Fern (*Onoclea sensibilis*)						
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)						
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)						
Marsh Fern (*Thelypteris palustris*)						
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar(*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)						
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracillima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex						
Carex						
Carex

Turbine 13

Henvey Inlet - SWH & SAR Habitat Assessment Form

AECOM

**Based on SWHTG Ecoregion E5 Criterion Schedule

Date: Oct 23/2014 | Map No.: N33

Field Staff: J Kamstra | Location: Turbine 13

Weather Conditions: 13°C clear, light wind | ELC Polygons: BBT, BOT

Start Time: 15:30 | End Time: 16:20

****** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: _____ Number of nests: _____

Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☒ No ☐ Yes (*Photograph and complete form*)

Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: _____

Water depth (m): ___ % open water: _____ % emergent vegetation: _____

Description of standing water (permanent pool, evidence of annual spring flooding, etc.): _____

Area and soil/substrate of shoreline habitat: _____

Type of cover in open water habitat: _____

Type and abundance of cover in surrounding habitat: _____

Presence of pondweeds, milfoil and/or yellow water lily: _____

Presence of peat: _____

Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: _____

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: _____

Describe substrate: _____

Evidence of use by swallows or falcons (provide number of nests): _____

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☒ No ☐ Yes (*Photograph and complete form*)

Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)

Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: _____

Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Turbine 13

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☒ No ☐ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
Turbine 13 ☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 525220/5077920 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.):
Hummocky Sphagnum in Tamarack Treed Bog Potential Mass hibernaculum, SIT
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):
Surrounded By Jack Pine Barrens, Similar Bog at 525240/5077895

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: Potential Spiny Habitat in RBT
cover Stones occasional but not abundant

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 13

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)	Yes	Jack Pine
Old Growth Forest		
Bog	Yes	Tamarack - Leatherleaf
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
Pot Mass Hiker	Treed Tamarack Bog		
Pot Mass Gestalt	Loose rocks + crevices		

Incidental Wildlife Observations:

Ruffed Grouse droppings

Other Observations:

Potential MASS gestation site - UTM - 525207/5077915
crevices + broken rocks, partly covered by Blueberries
-S

Turbine 0

ELC Community Description and Classification	Map #: N33 T8		Polygon: NK10	
	Surveyor(s): deMan Kamstra	Date: Oct. 23, 2014	Time start: 2:00pm finish: 2:30pm	
	UTMZ:	UTMZ: 524670	UTMN: 5078260	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic **Site** ☐ Open Water ☐ Shallow Water ☒ Surficial Dep. ☐ Bedrock **History** ☒ Natural ☐ Cultural **Cover** ☐ Open ☐ Shrub ☒ Treed	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☒ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☒ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☒ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Picea mariana = Larix laricina
2	4	3	Viburnum cass = Nemopanthis
3	5	3	Ledum groenladicum > Chamaedaphne cal
4	5	2	Woodwardia
5	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	R	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	R	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Treed Bog Ecosite	Code:	BOT1
Vegetation Type:	Black Spruce Treed Bog Type	Code:	BOT1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes: BOT RBT BOT

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Larix laricina	10, 12, 18					
Picea mariana	16, 36, 12					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Plt/Auger #		1							Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position	bottom							
		Aspect	0							Drainage
		Percent	0							
		Slope Length	n/a							
Depth to...	Mottles									Effective Texture (indicate below)
	Gley		40+							
	Water Table									
	Carbonates									
	Bedrock									
Soil Horizon Description	1	Depth from zero	40	% CF 0		% CF		% CF		% CF
		Texture	Oh-m							
	2	Depth from zero	40-56	% CF 0		% CF		% CF		% CF
		Texture	SiC							
	3	Depth from zero	56+	% CF		% CF		% CF		% CF
		Texture	Bedrock							
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock	0%							
	Moisture Regime									
	Drainage									

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snags:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							Effective Texture (indicate below)
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

Turbine 8

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir (*Abies balsamea*)						
Common Juniper (*Juniperus communis*)	X					
Eastern Red Cedar (*Juniperus virginiana*)						
Tam[illegible]k (*Larix laricina*)		X				
Wh[illegible]uce (*Picea glauca*)	X					
Blac[illegible]uce (*Picea mariana*)		X				
Jack Pine (*Pinus banksiana*)	X					
Red Pine (*Pinus resinosa*)						
Eastern White Pine (*Pinus strobus*)						
Scotch Pine (*Pinus sylvestris*)						
Canada Yew (*Taxus canadensis*)						
Eastern White Cedar (*Thuja occidentalis*)						
Eastern Hemlock (*Tsuga canadensis*)						
Deciduous						
Manitoba Maple (*Acer negundo*)						
Norway Maple (*Acer platanoides*)						
Red Maple (*Acer rubrum*)						
Freeman's Maple (*Acer X freemanii*)						
Sugar Maple (*Acer saccharum*)						
Mountain Maple (*Acer spicatum*)						
Speckled Alder (*Alnus incana*)		X				
Downy Serviceberry (*Amelanchier arborea*)						
Serviceberry (*Amelanchier sanguinea*)						
Yellow Birch (*Betula alleghaniensis*)						
White Birch (*Betula papyrifera*)		X				
Blue Beech (*Carpinus caroliniana*)						
Climbing Bittersweet (*Celastrus scandens*)						
Buttonbush (*Cephalanthus occidentalis*)						
Alt.-leaved Dogwood (*Cornus alternifolia*)						
Silky Dogwood (*Cornus amomum*)						
Bunchberry (*Cornus canadensis*)						
Gray dogwood (*Cornus racemosa*)						
Round-leaved Dogwood (*Cornus rugosa*)						
Red-osier Dogwood (*Cornus sericea*)						
Beaked Hazel (*Corylus cornuta*)						
English Hawthorn (*Crataegus monogyna*)						
Large-fruited Thorn (*Crataegus punctata*)						
Crataegus						
Crataegus						
Bush Honeysuckle (*Diervilla lonicera*)						
American Beech (*Fagus grandifolia*)						
Virg[illegible]rawberry (*Fragaria virginiana*)						
Wh[illegible] (*Fraxinus americana*)						
Blac[illegible] (*Fraxinus nigra*)						
Green Ash (*Fraxinus pennsylvanica*)						
Winterberry (*Ilex verticilata*)						
Fly Honeysuckle (*Lonicera canadensis*)						
Glaucous Honeysuckle (*Lonicera dioica*)						
Morrow's Honeysuckle (*Lonicera morrowii*)						
Tartarian Honeysuckle (*Lonicera tatarica*)						
Common Apple (*Malus pumila*)						
Sweet Gale (*Myrica gale*)						
Ironwood (*Ostrya virginiana*)						
Thicket-creeper (*Parthenocissus inserta*)						
Ninebark (*Physocarpus opulifolius*)						
Balsam Poplar (*Populus balsamifera*)						
Large-tooth Aspen (*Populus grandidentata*)						
Trembling Aspen (*Populus tremuloides*)	X					
Pin Cherry (*Prunus pensylvanica*)						
Black Cherry (*Prunus serotina*)						
Choke Cherry (*Prunus virginiana*)						
Prunus						
White Oak (*Quercus alba*)						
Bur Oak (*Quercus macrocarpa*)						
Red Oak (*Quercus rubra*)						
Alder Buckthorn (*Rhamnus alnifolia*)						
Common Buckthorn (*Rhamnus cathartica*)						
Staghorn Sumac (*Rhus hirta*)						
Wild Black Currant (*Ribes americanum*)						
Prickly Gooseberry (*Ribes cynosbati*)						
Swamp Black Currant (*Ribes lacustre*)						
Red Currant (*Ribes rubrum*)						
Ribes						
Prickly Rose (*Rosa acicularis*)						
Smooth Rose (*Rosa blanda*)						
Rosa						
Com. Blackberry (*Rubus allegheniensis*)						
Wild Red Raspberry (*Rubus idaeus*)						
Black Raspberry (*Rubus occidentalis*)						
Purple-fl. Raspberry (*Rubus odoratus*)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)						
Rubus						
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)		X				
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)						
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Aralia hispida	X					
Aronia melan	X					
Kalmia angust	X	X				
" polifolia	X	X				
Chamaedaphne	X	X				
Ledum groen		X				
Gaylussacia		X				
Viburnum cass		X				
Nemopanthus		X				
Vacc myrtilloides		X				
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)						
Crested Wood Fern (*Dryopteris cristata*)						
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)						
Sensitive Fern (*Onoclea sensibilis*)						
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)						
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)						
Marsh Fern (*Thelypteris palustris*)						
Woodwardia		X				
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar(*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)	X					
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Deschampsia flex	X					
Agrostis scabra	X					
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracillima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex cumulata	X					
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (*Eleocharis erythropoda*)						
Eleocharis						
Hard-stem Bulrush (*Schoenoplectus acutus*)						
Three-square Bulrush (*Sch. pungens*)						
Soft-stem Bulrush (*Sch. tabernaemontani*)						
Dark-green Bulrush (*Scirpus atrovirens*)						
Wool-grass (*Scirpus cyperinus*)						
Other Graminoids						
Broad Bur-reed (*Sparganium eurycarpum*)						
Narrow-leaved Cattail (*Typha angustifolia*)						
Broad-leaved Cattail (*Typha latifolia*)						
Broad-leaved Cattail (*Typha X glauca*)						
Articulated Rush (*Juncus articulatus*)						
Soft Rush (*Juncus effusus*)						
Path Rush (*Juncus tenuis*)						
Juncus						
Juncus						

*D - **Dominant**: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum*

*C - **Common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover*

*U - **Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)*

*R - **Rare**: represented in the polygon by less than about five individuals or small clumps*

Project: Map N33	1	N	K	1	1		Jack Pine Barren	4
Date: Oct 23/2014	2	N	K	1	0		Black Spruce Bog	5
Surveyors: JK	3							6

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
mmon Yarrow (*Achillea millefolium*)						
ite Snakeroot (*Ageratina altissima*)						
m. Ragweed (*Ambrosia artemisiifolia*)						
d Pussytoes (*Antennaria neglecta*)						
rmisia						
mmon Burdock (*Arctium minus*)						
dding Beggar-ticks (*Bidens cernua*)						
vil's Beggar-ticks (*Bidens frondosa*)						
otted Knapweed (*Centaurea biebersteinii*)						
own Knapweed (*Centaurea jacea*)						
icory (*Cichorium intybus*)						
nada Thistle (*Cirsium arvesnse*)						
l Thistle (*Cirsium vulgare*)						
rseweed (*Conyza canadensis*)						
isy Fleabane (*Erigeron annus*)						
iladelphia Fleabane (*Erig. philadelphicus*)						
igeron						
e-pye-weed (*Eupatorium maculatum*)						
oneset (*Eupatorium perfoliatum*)						
rge-leaved Aster (*Eurybia macrophylla*)						
at-top Goldenrod (*Euthamia graminifolia*)						
range Hawkweed (*Hieracium aurantiacum*)						
eld Hawkweed (*Hieracium caespitosum*)						
ieracium						
ecampane (*Inula helenium*)						
ickly Lettuce (*Lactuca serriola*)						
ctuca						
x-eye Daisy (*Leucanthemum vulgare*)						
neapple-weed (*Matricaria discoidea*)						
ll White Lettuce (*Prenanthes altissima*)						
lack-eyed Susan (*Rudbeckia hirta*)						
ll Goldenrod (*Solidago altissima*)						
lue-stem Goldenrod (*Solidago caesia*)						
nada Goldenrod (*Solidago canadensis*)						
g-zag Goldenrod (*Solidago flexicaulis*)						
ant Goldenrod (*Solidago gigantea*)						
rly Goldenrod (*Solidago juncea*)						
ray Goldenrod (*Solidago nemoralis*)						
olidago						
eld Sow-thistle (*Sonchus arvensis*)						
onchus						
eart-leaf Aster (*Symph. cordifolium*)						
eath Aster (*Symphyotrichum ericoides*)						
ll White Aster (*Symph. lanceolatum*)						
alico Aster (*Symphyotrichum lateriflorum*)						
ew England Aster (*Symph. novae-angliae*)						
urple-stem Aster (*Symph. puniceus*)						
ommon Tansy (*Tanacetum vulgare*)						
ommon Dandelion (*Taraxacum officinale*)						
om. Goatsbeard (*Tragopogon pratensis*)						
oltsfoot (*Tussilago farfara*)						

Turbine 8

Henvey Inlet - SWH & SAR Habitat Assessment Form

**Based on SWHTG Ecoregion E5 Criterion Schedule

AECOM

Date:	October 23	Map No.:	N 33
Field Staff:	JK	Location:	Turbine 8
Weather Conditions:	13°C clear, calm	ELC Polygons:	RBT BOT
Start Time:	13:40	End Time:	14:30

****** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: [ ] No [X] Yes (*Photograph and complete form*)
Aquatic food supply present (invertebrates/vegetation): [X] No [ ] Yes (*Photograph and complete form*)
UTMs: 524615 / 5078165
Water depth (m): 40 cm % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.):
Pool at edge of bog, semi shaded, winterberry 2m x 10m
Area and soil/substrate of shoreline habitat: edge of peat wetland
Type of cover in open water habitat: tall shrubs
Type and abundance of cover in surrounding habitat: Comber Bog, near RBT
Presence of pondweeds, milfoil and/or yellow water lily: No
Presence of peat: Yes
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: No

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Describe substrate: _____
Evidence of use by swallows or falcons (provide number of nests): _____

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: [X] No [ ] Yes (*Photograph and complete form*)
Rocky island or peninsula present: [X] No [ ] Yes (*Photograph and complete form*)
Mudflat present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☒ No ☐ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 524635/5073265 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.):
Jumbled rocks on bedrock, beside Juniper
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: possible Skink Habitat

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 8

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
	Possible Amp Habitat		
	Poss MASS gestation		

Incidental Wildlife Observations:

Bald Eagle - 1 adult flying high overhead, migrating
Com Raven - circling over
Bear - ripped up shallow moss on barren UTM 524633/5078872

Other Observations:

Note this site is Mosaic of Bog + Barren.
If entire turbine 8 footprint is shifted to SE it could avoid wetland and be entirely on RBT

- Much of Rock Barren has low gradient with minimal rock cover
- depth of organic soil in these wetlands quite shallow (≤50cm) is may not be suitable Massasauga hibernacula.

Also 3 Potential Nearby Gestation Sites at 524730/5078260
Also 3 piles of recent Moose feces at same location

ELC Form

Project: Henvey Inlet **Date:** Oct 23, 2014 **Start Time:** 11:53 am **End Time:** 12:31 pm

Field Staff: JD + JK **Infrastructure:**

Map No.: N40 **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Jack Pine - Common Juniper	

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submarged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☑	Tall Shrub	4	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Turbine 9

ELC Community Description and Classification	Map #: N40 T9		Polygon: NK9	
	Surveyor(s): J. deMan J. Karsten	Date: Oct 23, 2014	Time start: 11:53 am finish: 12:31 pm	
	UTMZ:	UTMZ: 523955	UTMN: 5078040	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☒ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☒ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☒ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fan ☒ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☒ Surficial Dep. ☒ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Opan ☐ Shrub ☒ Treed				

Stand Description

8.16m

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Picea mariana > Larix laricina
2	4	4	Nemopanthus
3	5	3	Ledum groenladicum > Kalmia pro > Woodwardia
4	7	6	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	O	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	R	10-24	N	25-50	N	>50

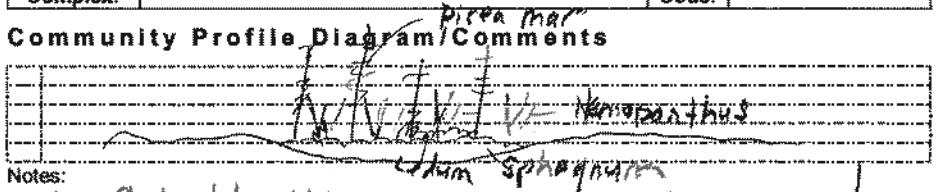
Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Potential Old Growth

Com. Aga:	☐ Pioneer	☐ Young	☐ Mid-Aga	☒ Matura	☐ Old Growth

Ecosite:	Treed Bog Ecosite	Code:	BOT1
Vegetation Type:	Black Spruce Treed Bog Type	Code:	BOT 1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes:
Turbine 9 located within this community. Recommended to move to barren

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Picea mariana	15, 16,	16, 10,	5, 18			
dead Pic mari	15					
Larix laricina	20.5					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #	1		2				Summary
Site Metrics	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect	0						Drainage
		Percent	0						
		Slope Length	0						
Depth to...		Mottles	none		none				Effective Texture (indicate below)
		Gley	none		none				
		Water Table	Saturated		saturated				
		Carbonates	none		none				
		Bedrock	none		none				
Soil Horizon Description	1	Depth from zero	42	% CF 0	75	% CF 0		% CF	% CF
		Texture	Oh		Oh				
	2	Depth from zero	42+	% CF 0	75+	% CF 0		% CF	% CF
		Texture	Bedrock		Bedrock				
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	0%		0%				
		Moisture Regime							
		Drainage							

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial	☐Organic	☐Lacustrine	☐Plankton	☐Lake
☐Wetland	☐Mineral Soil	☐Riverine	☐Submerged	☐Pond
☐Aquatic	☐Parent Min.	☐Bottomland	☐Floating-LVD.	☐River
Site	☐Acidic Bedrk	☐Terrace	☐Graminoid	☐Stream
☐Open Water	☐Basic Bedrk	☐Valley Slope	☐Forb	☐Marsh
☐Shallow Water	☐Carb. Bedrk	☐Tableland	☐Lichen	☐Swamp
☐Surficial Dep.		☐Roll. Upland	☐Bryophyte	☐Fen
☐Bedrock		☐Cliff	☐Deciduous	☐Bog
History		☐Talus	☐Coniferous	☐Barren
☐Natural		☐Crevice/Cave	☐Mixed	☐Meadow
☐Cultural		☐Alvar		☐Prairie
Cover		☐Rockland		☐Thicket
☐Open		☐Beach / Bar		☐Savannah
☐Shrub		☐Sand Dune		☐Woodland
☐Treed		☐Bluff		☐Forest
				☐Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM	Zone				Moisture Regima
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...	Mottles					
	Gley					Effective Texture (Indicate below)
	Water Table					
	Carbonates					
	Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

Turbine 9

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir (*Abies balsamea*)						
Common Juniper (*Juniperus communis*)						
Eastern Red Cedar (*Juniperus virginiana*)						
Tama[illegible]ck (*Larix laricina*)						
Wh[illegible]uce (*Picea glauca*)						
Blac[illegible]uce (*Picea mariana*)	X					
Jack Pine (*Pinus banksiana*)	X					
Red Pine (*Pinus resinosa*)						
Eastern White Pine (*Pinus strobus*)						
Scotch Pine (*Pinus sylvestris*)						
Canada Yew (*Taxus canadensis*)						
Eastern White Cedar (*Thuja occidentalis*)						
Eastern Hemlock (*Tsuga canadensis*)						
Deciduous						
Manitoba Maple (*Acer negundo*)						
Norway Maple (*Acer platanoides*)						
Red Maple (*Acer rubrum*)						
Freeman's Maple (*Acer X freemanii*)						
Sugar Maple (*Acer saccharum*)						
Mountain Maple (*Acer spicatum*)						
Speckled Alder (*Alnus incana*)						
Downy Serviceberry (*Amelanchier arborea*)						
Serviceberry (*Amelanchier sanguinea*)						
Yellow Birch (*Betula alleghaniensis*)						
White Birch (*Betula papyrifera*)						
Blue Beech (*Carpinus caroliniana*)						
Climbing Bittersweet (*Celastrus scandens*)						
Buttonbush (*Cephalanthus occidentalis*)						
Alt.-leaved Dogwood (*Cornus alternifolia*)						
Silky Dogwood (*Cornus amomum*)						
Bunchberry (*Cornus canadensis*)						
Gray dogwood (*Cornus racemosa*)						
Round-leaved Dogwood (*Cornus rugosa*)						
Red-osier Dogwood (*Cornus sericea*)						
Beaked Hazel (*Corylus cornuta*)						
English Hawthorn (*Crataegus monogyna*)						
Large-fruited Thorn (*Crataegus punctata*)						
Crataegus						
Crataegus						
Bush Honeysuckle (*Diervilla lonicera*)						
American Beech (*Fagus grandifolia*)						
Virgi[illegible]trawberry (*Fragaria virginiana*)						
Wh[illegible] (*Fraxinus americana*)						
Black[illegible] (*Fraxinus nigra*)						
Green Ash (*Fraxinus pennsylvanica*)						
Winterberry (*Ilex verticilata*)	X	X				
Fly Honeysuckle (*Lonicera canadensis*)						
Glaucous Honeysuckle (*Lonicera dioica*)						
Morrow's Honeysuckle (*Lonicera morrowii*)						
Tartarian Honeysuckle (*Lonicera tatarica*)						
Common Apple (*Malus pumila*)						
Sweet Gale (*Myrica gale*)						
Ironwood (*Ostrya virginiana*)						
Thicket-creeper (*Parthenocissus inserta*)						
Ninebark (*Physocarpus opulifolius*)						
Balsam Poplar (*Populus balsamifera*)						
Large-tooth Aspen (*Populus grandidentata*)						
Trembling Aspen (*Populus tremuloides*)						
Pin Cherry (*Prunus pensylvanica*)						
Black Cherry (*Prunus serotina*)						
Choke Cherry (*Prunus virginiana*)						
Prunus						
White Oak (*Quercus alba*)						
Bur Oak (*Quercus macrocarpa*)						
Red Oak (*Quercus rubra*)						
Alder Buckthorn (*Rhamnus alnifolia*)						
Common Buckthorn (*Rhamnus cathartica*)						
Staghorn Sumac (*Rhus hirta*)						
Wild Black Currant (*Ribes americanum*)						
Prickly Gooseberry (*Ribes cynosbati*)						
Swamp Black Currant (*Ribes lacustre*)						
Red Currant (*Ribes rubrum*)						
Ribes						
Prickly Rose (*Rosa acicularis*)						
Smooth Rose (*Rosa blanda*)						
Rosa						
Com. Blackberry (*Rubus allegheniensis*)						
Wild Red Raspberry (*Rubus idaeus*)						
Black Raspberry (*Rubus occidentalis*)						
Purple-fl. Raspberry (*Rubus odoratus*)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)						
Rubus						
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)						
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)	X					
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Ledum groen	X	X				
kalmia angust	X	X				
kalmia polif	X	X				
chamaedaphne	X	X				
Viburnum cass.	X	X				
Nemopanthus		X				
Gaultheria		X				
Vacc myrtilloides		X				
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)						
Crested Wood Fern (*Dryopteris cristata*)						
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)						
Sensitive Fern (*Onoclea sensibilis*)						
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)		X				
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)						
Marsh Fern (*Thelypteris palustris*)						
Woodwardia		X				
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar (*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)						
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Deschampsia	X					
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracillima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex cumulata	X					
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (*Eleocharis erythropoda*)						
Eleocharis						
Hard-stem Bulrush (*Schoenoplectus acutus*)						
Three-square Bulrush (*Sch. pungens*)						
Soft-stem Bulrush (*Sch. tabernaemontani*)						
Dark-green Bulrush (*Scirpus atrovirens*)						
Wool-grass (*Scirpus cyperinus*)	X					
Other Graminoids						
Broad Bur-reed (*Sparganium eurycarpum*)						
Narrow-leaved Cattail (*Typha angustifolia*)						
Broad-leaved Cattail (*Typha latifolia*)						
Broad-leaved Cattail (*Typha X glauca*)						
Articulated Rush (*Juncus articulatus*)						
Soft Rush (*Juncus effusus*)						
Path Rush (*Juncus tenuis*)						
Juncus						
Juncus						

D - Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum
F - [illegible]common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover
U - [illegible]mon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)
R - Rare: represented in the polygon by less than about five individuals or small clumps

Project: Hawk	1						Jack Pine Rock Barrens	4							
Date: Oct 23/2014	2	N	KP				Tall Black Spruce Bog	5							
Surveyors: Kamstra	3							6							

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
Common Yarrow (*Achillea millefolium*)						
White Snakeroot (*Ageratina altissima*)						
Com. Ragweed (*Ambrosia artemisiifolia*)						
Field Pussytoes (*Antennaria neglecta*)						
Artemisia						
Common Burdock (*Arctium minus*)						
Nodding Beggar-ticks (*Bidens cernua*)						
Devil's Beggar-ticks (*Bidens frondosa*)						
Spotted Knapweed (*Centaurea biebersteinii*)						
Brown Knapweed (*Centaurea jacea*)						
Chicory (*Cichorium intybus*)						
Canada Thistle (*Cirsium arvesnse*)						
Bull Thistle (*Cirsium vulgare*)						
Horseweed (*Conyza canadensis*)						
Daisy Fleabane (*Erigeron annus*)						
Philadelphia Fleabane (*Erig. philadelphicus*)						
Erigeron						
Joe-pye-weed (*Eupatorium maculatum*)						
Boneset (*Eupatorium perfoliatum*)						
Large-leaved Aster (*Eurybia macrophylla*)						
Flat-top Goldenrod (*Euthamia graminifolia*)						
Orange Hawkweed (*Hieracium aurantiacum*)						
Field Hawkweed (*Hieracium caespitosum*)						
Hieracium						
Elecampane (*Inula helenium*)						
Prickly Lettuce (*Lactuca serriola*)						
Lactuca						
Ox-eye Daisy (*Leucanthemum vulgare*)						
Pineapple-weed (*Matricaria discoidea*)						
Tall White Lettuce (*Prenanthes altissima*)						
Black-eyed Susan (*Rudbeckia hirta*)						
Tall Goldenrod (*Solidago altissima*)						
Blue-stem Goldenrod (*Solidago caesia*)						
Canada Goldenrod (*Solidago canadensis*)						
Zig-zag Goldenrod (*Solidago flexicaulis*)						
Giant Goldenrod (*Solidago gigantea*)						
Early Goldenrod (*Solidago juncea*)						
Gray Goldenrod (*Solidago nemoralis*)						
Solidago						
Field Sow-thistle (*Sonchus arvensis*)						
Sonchus						
Heart-leaf Aster (*Symph. cordifolium*)						
Heath Aster (*Symphyotrichum ericoides*)						
Tall White Aster (*Symph. lanceolatum*)						
Calico Aster (*Symphyotrichum lateriflorum*)						
New England Aster (*Symph. novae-angliae*)						
Purple-stem Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						

Other Dicot Herbs						
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
Penn. Bitter-cress (*Cardamine pensylvanica*)						
Cardamine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteroi*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanginaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						

Monocot Herbs						
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallus fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

***D - Dominant**: represented by large numbers: generally forming >10% ground cover or >25% vegetation cover in any one stratum*

***F - Fairly common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover*

***U - Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)*

***R - Rare**: represented in the polygon by less than about five individuals or small clumps*

Project:	1		4	
Date:	2		5	
Surveyors:	3		6	

Turbine 9

Henvey Inlet - SWH & SAR Habitat Assessment Form

**Based on SWHTG Ecoregion E5 Criterion Schedule

AECOM

Date:	Oct 23/2014	Map No.:	
Field Staff:	Kamstra	Location:	Turbine 9
Weather Conditions:	10°C clear + calm	ELC Polygons:	BOT
Start Time:	11:30	End Time:	12:30

****** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: [X] No [ ] Yes (*Photograph and complete form*)
Aquatic food supply present (invertebrates/vegetation): [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Water depth (m): ___ % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.):

Area and soil/substrate of shoreline habitat:

Type of cover in open water habitat:
Type and abundance of cover in surrounding habitat:
Presence of pondweeds, milfoil and/or yellow water lily:
Presence of peat:
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds:

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallowe)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Describe substrate:
Evidence of use by swallows or falcons (provide number of nests):

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: [X] No [ ] Yes (*Photograph and complete form*)
Rocky island or peninsula present: [X] No [ ] Yes (*Photograph and complete form*)
Mudflat present: [X] No [ ] Yes (*Photograph and complete form*)
UTMs: _____
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Turbine 9

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☒ No ☐ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
Turbine 9 ☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 523945 / 5078040 Likelihood to extend below frost line: Yes
Description of fissure or stone pile (composition/material, dimensions, etc.):
Blade Spruce Bog w Thick Hummocky, Potential Moss hibernation site
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):
Surrounded by Rock Barren

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: Skink potential

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 9

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)	Y	Jack Pine Barrens
Old Growth Forest		
Bog	Y	Tall Black Spruce Bog
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Gray Jay, Hairy WP, Common Raven

Black Bear – recently ripped up moss on rock barren at 523960/5078000 at several locations

Other Observations:

Wingless grasshopper on rock barren – photographed

Potential Massauga Gestation Site – jumbled rocks with gaps in depression between 2 inhabitable rock outcrops UTM- 523860/5078073

HENVEY INLET FIELD MAPS

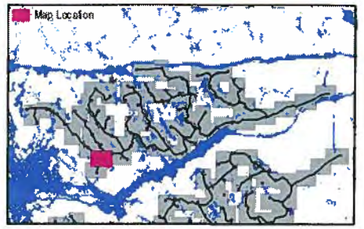
Map ID: HNV North 40

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

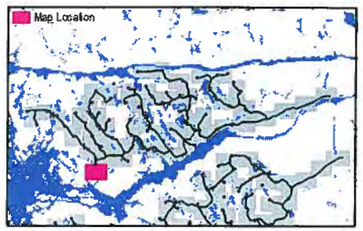
Map ID: HNV North 44

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Turbine 95

ELC Community Description and Classification

Map #: Map N44 T05		Polygon: NK7	
Surveyor(s): JK, JH	Date: Oct 23, 2014	Time start: 10:09am	finish:
UTMZ:	UTMZ: 524000	UTMN: 5077430	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT (1.8m)	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Pinus banksiana >> Picea mariana = Pinus strobus
2	5	3	Juniperus communis
3	7	3	Cladina stellaris Cladonia sp Cladonia rei
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	N	N	N	N
BA:	Deadfall / Logs:	R	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Acidic Treed Rock Barren	Code:	RBT3
Vegetation Type:	Jack Pine Acidic Treed Rock Barren	Code:	RBT3-2
Inclusion:	Black Spruce Org Swamp see NK8	Code:	SWC4-3
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus Banksiana	21, 25, 14					
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position	top of slope						
		Aspect	variable micro topography						
		Percent	0.3%						Drainage
		Slope Length	10m						
Depth to...		Mottles	none						
		Gley	none						
		Water Table	not observed						Effective Texture (indicate below)
		Carbonates	?						
		Bedrock	at surface						
Soil Horizon Description	1	Depth from zero	2cm	% CF 0		% CF		% CF	% CF
		Texture	Lichen/moss						
	2	Depth from zero	2-5 cm	% CF 3		% CF		% CF	% CF
		Texture	SL						
	3	Depth from zero	3+ cm	% CF 8		% CF		% CF	% CF
		Texture	Bedrock						
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock	50%						
	Moisture Regime								
	Drainage								

Turbine 95

ELC Community Description and Classification	Map #: N44 T95		Polygon: NK8 (including)	
	Surveyor(s): J deMan J Kamitt	Date: Oct. 23, 2014	Time start: 10:31 am finish: 10:50 am	
	UTMZ: 17T	UTMZ: 1	UTMN: 5077430	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☒ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☒ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☒ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☒ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

- complex microtopography

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Picea mariana >> Larix laricina > Pinus banksiana
2	6	3	Chamaedaphne cala > Nemopanthus > Vaccinium oxy
3	7	4	Sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	1	25-50	N	>50
	Standing Snags:	O	<10	R	10-24		25-50		>50
BA:	Deadfall / Logs:	O	<10	O	10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Tamarack - Black Spruce Org Conif	Code:	SWC 4
Vagetation Type:	Black Spruce Organic Conif Swamp	Code:	SWC 4-3
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus banksiana	14.5, 12					
Picea mariana	16					
dead snag	18					
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

											Summary
Site Metrics	Pit/Auger #		1								
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position	0								
		Aspect	0								Drainage
		Percent	0								
		Slope Length	10m								
Depth to...	Mottles		none								
	Gley		none								Effective Texture (indicate below)
	Water Table		saturated								
	Carbonates		?								
	Bedrock		5cm								
Soil Horizon Description	1	Depth from zero	5cm	% CF 0		% CF		% CF		% CF	
		Texture	SL								
	2	Depth from zero	5cm+	% CF		% CF		% CF		% CF	
		Texture	Bedrock								
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock	0%								
	Moisture Regime										
	Drainage										

Turbine 95

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir *(Abies balsamea)*						
Common Juniper *(Juniperus communis)*	X					
Eastern Red Cedar *(Juniperus virginiana)*						
Tamarack *(Larix laricina)*		X				
Wh[illegible]uce *(Picea glauca)*						
Bla[illegible]uce *(Picea mariana)*		X				
Jack Pine *(Pinus banksiana)*	X					
Red Pine *(Pinus resinosa)*						
Eastern White Pine *(Pinus strobus)*	X					
Scotch Pine *(Pinus sylvestris)*						
Canada Yew *(Taxus canadensis)*						
Eastern White Cedar *(Thuja occidentalis)*						
Eastern Hemlock *(Tsuga canadensis)*						
Deciduous						
Manitoba Maple *(Acer negundo)*						
Norway Maple *(Acer platanoides)*						
Red Maple *(Acer rubrum)*						
Freeman's Maple *(Acer X freemanii)*						
Sugar Maple *(Acer saccharum)*						
Mountain Maple *(Acer spicatum)*						
Speckled Alder *(Alnus incana)*						
Downy Serviceberry *(Amelanchier arboroa)*						
Serviceberry *(Amelanchier sanguinea)*						
Yellow Birch *(Betula alleghaniensis)*						
White Birch *(Betula papyrifera)*						
Blue Beech *(Carpinus caroliniana)*						
Climbing Bittersweet *(Celastrus scandens)*						
Buttonbush *(Cephalanthus occidentalis)*						
Alt.-leaved Dogwood *(Cornus alternifolia)*						
Silky Dogwood *(Cornus amomum)*						
Bunchberry *(Cornus canadensis)*						
Gray dogwood *(Cornus racemosa)*						
Round-leaved Dogwood *(Cornus rugosa)*						
Red-osier Dogwood *(Cornus sericea)*						
Beaked Hazel *(Corylus cornuta)*						
English Hawthorn *(Crataegus monogyna)*						
Large-fruited Thorn *(Crataegus punctata)*						
Crataegus						
Crataegus						
Bush Honeysuckle *(Diervilla lonicera)*						
American Beech *(Fagus grandifolia)*						
Virgi[illegible]trawberry *(Fragaria virginiana)*						
Wh[illegible] *(Fraxinus americana)*						
Blac[illegible] *(Fraxinus nigra)*						
Green Ash *(Fraxinus pennsylvanica)*						
Winterberry *(Ilex verticillata)*		X				
Fly Honeysuckle *(Lonicera canadensis)*						
Glaucous Honeysuckle *(Lonicera dioica)*						
Morrow's Honeysuckle *(Lonicera morrowii)*						
Tartarian Honeysuckle *(Lonicera tatarica)*						
Common Apple *(Malus pumila)*						
Sweet Gale *(Myrica gale)*						
Ironwood *(Ostrya virginiana)*						
Thicket-creeper *(Parthenocissus inserta)*						
Ninebark *(Physocarpus opulifolius)*						
Balsam Poplar *(Populus balsamifera)*						
Large-tooth Aspen *(Populus grandidentata)*	X					
Trembling Aspen *(Populus tremuloides)*						
Pin Cherry *(Prunus pensylvanica)*						
Black Cherry *(Prunus serotina)*						
Choke Cherry *(Prunus virginiana)*						
Prunus						
White Oak *(Quercus alba)*						
Bur Oak *(Quercus macrocarpa)*						
Red Oak *(Quercus rubra)*						
Alder Buckthorn *(Rhamnus alnifolia)*						
Common Buckthorn *(Rhamnus cathartica)*						
Staghorn Sumac *(Rhus hirta)*						
Wild Black Currant *(Ribes americanum)*						
Prickly Gooseberry *(Ribes cynosbati)*						
Swamp Black Currant *(Ribes lacustre)*						
Red Currant *(Ribes rubrum)*						
Ribes						
Prickly Rose *(Rosa acicularis)*						
Smooth Rose *(Rosa blanda)*						
Rosa						
Com. Blackberry *(Rubus allegheniensis)*						
Wild Red Raspberry *(Rubus idaeus)*						
Black Raspberry *(Rubus occidentalis)*						
Purple-fl. Raspberry *(Rubus odoratus)*						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry *(Rubus pubescens)*						
Rubus setosus ?	X					
Peach-leaved Willow *(Salix amygdaloides)*						
Bebb's Willow *(Salix bebbiana)*						
Pussy Willow *(Salix discolor)*		X				
Missouri Willow *(Salix eriocephala)*						
Sandbar Willow *(Salix exigua)*						
Shining Willow *(Salix lucida)*						
Slender Willow *(Salix petiolaris)*						
Salix humilis	X					
Hybrid Crack Willow *(Salix X rubens)*						
Black-berried Elder *(Sambucus nigra)*						
Red-berried Elder *(Sambucus racemosa)*						
Buffaloberry *(Shepherdia canadensis)*						
Amer. Mountain Ash *(Sorbus americana)*						
Narrow Meadow-sweet *(Spiraea alba)*						
Common Lilac *(Syringa vulgaris)*						
Basswood *(Tilia americana)*						
Poison-ivy *(Toxicodendron rydbergii)*						
White Elm *(Ulmus americana)*						
Low Blueberry *(Vaccinium angustifolium)*	X					
Maple-leaf Viburnum *(Viburnum acerifolium)*						
Hobblebush *(Viburnum lantanoides)*						
Nannyberry *(Viburnum lentago)*						
Downy Arrow-wood *(Vib. rafinesquianum)*						
Riverbank Grape *(Vitis riparia)*						
Am. Prickly-ash *(Zanthoxylum americanum)*						
Gaylussacia	X	X				
Kalmia angustifolia	X					
Viburnum cass	X					
Nemopanthus		X				
Chamaedaphne		X				
Ferns & Allies						
Lady Fern *(Athyrium filix-femina)*						
Rattlesnake Fern *(Botrychium virginianum)*						
Bulbet Bladder Fern *(Cystopteris bulbifera)*						
Spin. Wood Fern *(Dryopteris carthusiana)*						
Crested Wood Fern *(Dryopteris cristata)*						
Marginal Wood Fern *(Dryopteris marginalis)*						
Dryopteris						
Ostrich Fern *(Matteuccia struthiopteris)*						
Sensitive Fern *(Onoclea sensibilis)*						
Cinnamon Fern *(Osmunda cinnamomea)*						
Interrupted Fern *(Osmunda claytoniana)*						
Royal Fern *(Osmunda regalis)*						
Christmas Fern *(Polystichum acrostichoides)*						
Eastern Bracken-fern *(Pteridium aquilinum)*						
Marsh Fern *(Thelypteris palustris)*						
Field Horsetail *(Equisetum arvense)*						
Scouring-rush *(Equisetum hyemale)*						
Variegated Horsetail *(Equisetum variegatum)*						
Equisetum						
Ground-cedar *(Lycopodium digitatum)*						
Shining Clubmoss *(Lycopodium lucidulum)*						
Ground-pine *(Lycopodium obscurum)*						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop *(Agrostis gigantea)*						
Redtop *(Agrostis stolonifera)*						
Awnless Brome *(Bromus inermis)*						
Bromus						
Blue-joint Grass *(Calamagrostis canadensis)*						
Orchard Grass *(Dactylis glomerata)*						
Poverty Oat Grass *(Danthonia spicata)*						
Quack Grass *(Elymus repens)*						
Virginia Wild Rye *(Elymus virginicus)*						
Elymus						
Fowl Manna Grass *(Glyceria striata)*						
Glyceria						
Rice Cut Grass *(Leersia oryzoides)*						
Tall Fescue *(Lolium arundinaceum)*						
Muhlenbergia						
Witch-grass *(Panicum capillare)*						
Panicum						
Reed Canary Grass *(Phalaris arundinacea)*						
Timothy *(Phleum pratense)*						
Common Reed *(Phragmites australis)*						
Canada Blue Grass *(Poa compressa)*						
Fowl Meadow Grass *(Poa palustris)*						
Kentucky Bluegrass *(Poa pratensis)*						
Deschampsia flex	X					
Sedges						
Drooping Wood Sedge *(Carex arctata)*						
Golden-fruited Sedge *(Carex aurea)*						
Graceful Sedge *(Carex gracillima)*						
Inland Sedge *(Carex interior)*						
Bladder Sedge *(Carex intumescens)*						
Lake-bank Sedge *(Carex lacustris)*						
Hop Sedge *(Carex lupulina)*						
Pennsylvania Sedge *(Carex pensylvanica)*						
Awl-fruited Sedge *(Carex stipata)*						
Fox Sedge *(Carex vulpinoidea)*						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush *(Eleocharis erythropoda)*						
Eleocharis						
Hard-stem Bulrush *(Schoenoplectus acutus)*						
Three-square Bulrush *(Sch. pungens)*						
Soft-stem Bulrush *(Sch. tabernaemontani)*						
Dark-green Bulrush *(Scirpus atrovirens)*						
Wool-grass *(Scirpus cyperinus)*						
Other Graminoids						
Broad Bur-reed *(Sparganium eurycarpum)*						
Narrow-leaved Cattail *(Typha angustifolia)*						
Broad-leaved Cattail *(Typha latifolia)*						
Broad-leaved Cattail *(Typha X glauca)*						
Articulated Rush *(Juncus articulatus)*						
Soft Rush *(Juncus effusus)*						
Path Rush *(Juncus tenuis)*						
Juncus						
Juncus						

D - Dominant: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum

F - [illegible]common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover

U - [illegible]mon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)

R - R[illegible]: represented in the polygon by less than about five individuals or small clumps

Project:	HON Map N44	1	N	K	7			Jack Pine Rock Barren
Date:	Oct 23 /2014	2	N	K	3			micro Black Spruce Swamp inclusi
Surveyors:	Kristina & Vernon	3						
		4						
		5						
		6						

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
Common Yarrow (*Achillea millefolium*)						
White Snakeroot (*Ageratina altissima*)						
Com. Ragweed (*Ambrosia artemisiifolia*)						
Field Pussytoes (*Antennaria neglecta*)						
Artemisia						
Common Burdock (*Arctium minus*)						
Nodding Beggar-ticks (*Bidens cernua*)						
Devil's Beggar-ticks (*Bidens frondosa*)						
Spotted Knapweed (*Centaurea biebersteinii*)						
Brown Knapweed (*Centaurea jacea*)						
Chicory (*Cichorium intybus*)						
Canada Thistle (*Cirsium arvesnse*)						
Bull Thistle (*Cirsium vulgare*)						
Horseweed (*Conyza canadensis*)						
Daisy Fleabane (*Erigeron annus*)						
Philadelphia Fleabane (*Erig. philadelphicus*)						
Erigeron						
Joe-pye-weed (*Eupatorium maculatum*)						
Boneset (*Eupatorium perfoliatum*)						
Large-leaved Aster (*Eurybia macrophylla*)						
Flat-top Goldenrod (*Euthamia graminifolia*)						
Orange Hawkweed (*Hieracium aurantiacum*)						
Field Hawkweed (*Hieracium caespitosum*)						
Hieracium						
Elecampane (*Inula helenium*)						
Prickly Lettuce (*Lactuca serriola*)						
Lactuca						
Ox-eye Daisy (*Leucanthemum vulgare*)						
Pineapple-weed (*Matricaria discoidea*)						
Tall White Lettuce (*Prenanthes altissima*)						
Black-eyed Susan (*Rudbeckia hirta*)						
Tall Goldenrod (*Solidago altissima*)						
Blue-stem Goldenrod (*Solidago caesia*)						
Canada Goldenrod (*Solidago canadensis*)						
Zig-zag Goldenrod (*Solidago flexicaulis*)						
Giant Goldenrod (*Solidago gigantea*)						
Early Goldenrod (*Solidago juncea*)						
Gray Goldenrod (*Solidago nemoralis*)						
Solidago						
Field Sow-thistle (*Sonchus arvensis*)						
Sonchus						
Heart-leaf Aster (*Symph. cordifolium*)						
Heath Aster (*Symphyotrichum ericoides*)						
Tall White Aster (*Symph. lanceolatum*)						
Calico Aster (*Symphyotrichum lateriflorum*)						
New England Aster (*Symph. novae-angliae*)						
Purple-stem Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltstoot (*Tussilago farfara*)						
Other Dicot Herbs						
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
Penn. Bitter-cress (*Cardamine pensylvanica*)						
Cardamine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berterii*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Ruget's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanginaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Cum. Blue Violet (*Viola sororia*)						
Viola						

Turbine 95

Henvey Inlet - SWH & SAR Habitat Assessment Form

**Based on SWHTG Ecoregion E5 Criterion Schedule

AECOM

Date: October 23/2014 | Map No.:
Field Staff: [illegible] | Location: Turbine 95
Weather Conditions: clear 5°C calm | ELC Polygons: RBT
Start Time: 10:00 | End Time:

**** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☒ No ☐ Yes (*Photograph and complete form*)
Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Water depth (m): ___ % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.):

Area and soil/substrate of shoreline habitat:

Type of cover in open water habitat:
Type and abundance of cover in surrounding habitat:
Presence of pondweeds, milfoil and/or yellow water lily:
Presence of peat:
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds:

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:
Evidence of use by swallows or falcons (provide number of nests):

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☒ No ☐ Yes (*Photograph and complete form*)
Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)
Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☐ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☐ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☒ No ☐ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 523993 / 5077370 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.): Potential MNRF gestation site - flat boulders + moss with spruce, hemlock Juniper.
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.): Rock Pile Barren
aka 524010 / 5077367

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*) Cobble Barren
UTMs:
Description of habitat and cover objects: potential Snake Habitat Rock Barrens w occasional cover rocks

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☐ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☐ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 95

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		Jack Pine Rock Barren
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
	Rock Barren		
MASS	Potential Geotetion		

Incidental Wildlife Observations:

Moose feces - 524000 / 5077345

Other Observations:

HENVEY INLET FIELD MAPS

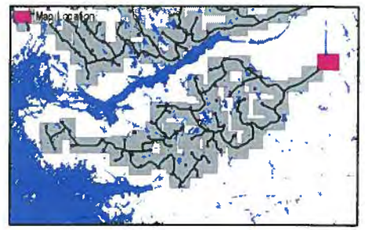
Map ID: HNV South 01

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

Olga H, Jullie E
Nov 27. 2014

10/20/2014

0 25 50 100
Meters

1:2,500

ELC
Community Description and Classification

Map #: Sauth01	Polygon:		
Surveyor(s): DH/JE	Date: 11/07/14	Time start: 12:40	finish: 12:55
UTMZ:	UTMZ:	UTMN:	

See map for comments delineation

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial	☐Organic	☐Lacustrine	☐Plankton	☐Lake
☐Wetland	☐Mineral Soil	☐Riverine	☐Submerged	☐Pond
☐Aquatic	☐Perent Min.	☐Bottomland	☐Floating-LVD.	☐River
Site	☐Acidic Bedrk	☐Terrace	☐Graminoid	☐Stream
☐Open Water	☐Basic Bedrk	☐Valley Slope	☐Forb	☐Marsh
☐Shallow Water	☐Carb. Bedrk	☐Tableland	☐Lichen	☐Swamp
☐Surficial Dep.		☐Roll. Upland	☐Bryophyte	☐Fen
☐Bedrock		☐Cliff	☐Deciduous	☐Bog
History		☐Talus	☐Coniferous	☐Barren
☐Natural		☐Crevice/Cava	☐Mixed	☐Meadow
☐Cultural		☐Alvar		☐Prairie
Cover		☐Rockland		☐Thicket
☐Open		☐Beach / Bar		☐Savannah
☐Shrub		☐Sand Duna		☐Woodland
☐Treed		☐Bluff		☐Forest
				☐Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	1	THUOCC
2	3	1	Blackberry in RASTRAP
3	6	1	GRASS Bluegrass Tufted hair
4	7	4	moss = Lichen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☑ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	BW acidic open Rock Barren	Code:	RBO3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: one mature aldar

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM: Zone					Moisture Regime
	UTM: Easting					
	UTM: Northing					
	Slope: Position					
	Slope: Aspect					Drainage
	Slope: Percent					
	Slope: Slope Length					
Depth to...	Mottles					
	Gley					
	Water Table					Effective Texture (indicate below)
	Carbonates					
	Bedrock					

Soil Horizon Description									
	1	Depth from zero	% CF	% CF	% CF	% CF			
		Textura							
	2	Depth from zero	% CF	% CF	% CF	% CF			
		Texture							
	3	Depth from zero	% CF	% CF	% CF	% CF			
		Texture							
	4	Depth from zero	% CF	% CF	% CF	% CF			
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time *start:*	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Dascription

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Dascription

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:		Pioneer		Young		Mid-Age		Mature		Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profila Diagram/Comments

Notes:

Tree Tally by Specias

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Ragima
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effectiva Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM: Zone					Moisture Regime
	UTM: Easting					
	UTM: Northing					
	Slope: Position					
	Slope: Aspect					Drainage
	Slope: Percent					
	Slope: Slope Length					
Depth to...	Mottles					Effective Texture (indicate below)
	Gley					
	Water Table					
	Carbonates					
	Bedrock					
Soil Horizon Description	1 Depth from zero		% CF		% CF		% CF		% CF
	1 Texture								
	2 Depth from zero		% CF		% CF		% CF		% CF
	2 Texture								
	3 Depth from zero		% CF		% CF		% CF		% CF
	3 Texture								
	4 Depth from zero		% CF		% CF		% CF		% CF
	4 Texture								
	% Surface Stone/Rock								
	Moisture Regime								
	Drainage								

ELC Community Description and Classification	Map #: SO1		Polygon:	
	Surveyor(s): OY/JE	Date: 11/07/14	Time start: 1:10 finish: 1:20	
	UTMZ:	UTMZ: 533643	UTMN: 5077881	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☑ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☑ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☑ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☑ Open ☐ Shrub ☐ Treed				

Stand Description ARRCLA

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			~~[illegible]~~ CARE UTRICY TYPH ANG
2	3-4	4	BLUEJOINT = CARE UTRICY TYPH ANG
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:	MAM	Code:	
Vegetation Type:	Bluejoint organic meadow marsh	Code:	MAM3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11/07/14	**Map No.:**	MAP South 1
Field Staff:	DH DE	**Infrastructure:**	Access Rd from Hwy 69
Start Time:	12:25	**End Time:**	1:30
Weather:	12:25 -5°C, BS=2, CC%=45%		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		~~533643~~ 5077881	Water/wetland habitat: >40cm deep water Soil/peat: organic soil
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to;woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		AB03-1 - See map for community delineations	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

BCCH, CORA, BLJA
Red Squirrel

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Consider relocating roads outside MAM3-1/SWD5-1

Other Comments/Observations:

ELC Form

Project: Henvey Inlet **Date:** 11/07/14 **Start Time:** 12:20 **End Time:** 1:30

Field Staff: OH, DF **Infrastructure:** Access Road.

Map No.: 501 **UTMs:** 533629 / 5077870

ELC Code:	Community Name	Plant Form: Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Breed Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	3-4	4
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree		
☐		☐	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: RHAMNUS ALNIFOLIA, Bluejoint Grass

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-1		☐	☐	Low Shrub	See ELC	
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC

Inclusion/Complex:

533627 / 5077860

ELC Code:	Community Name	Plant Form: Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☑	Tall Shrub	3-4	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: RHAMNUS ALNIFOLIA, Bluejoint Grass

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte	See ELC	
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAM3-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☒ FOD3-2	Dry-Fresh Poplar Mix Forest	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☒	☐	Mixed Tree	2	4

Dominant/Notable Species: Birch – Poplar – Pine

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Code						
HT:	7 = <0.2 m	6 = >0.2 – 0.5 m	5 = >0.5 – 1 m	4 = >1 – 2 m	3 = >2 – 6	2 = >6 – 25 m	1 = >25 m
CVR:	0 = None	1 = 0% – 10%	2 = 10% – 25%	3 = 25% – 60%	4 = >60%		

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	14 Nov 2014	**Map No.:**	02 South
Field Staff:	CK + OH	**Infrastructure:**	access road
Start Time:	11:00	**End Time:**	11:40
Weather:	-5°C, 90% CC, low winds		

(2) dormant amphibian observed in Spring/seep pool.

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: vernal pool & spring seep. ★	Y		(1) 532901 / 5077466 (2) see UTM back of page	Water/wetland habitat: potentially flooded Preplenerae pooling in spring in FOD8-1 (1) assoc. w/ tiny stream flowing through. Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring: ★	Y		See back for details	Indicator: water bubbling up in vernal pool, may be feeding standing water/vernal pools further south in FOD8-1
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

RBNH

CHIC

Squirrel

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

A small seep/spring was located @ 17 / E532869 / N5077453

All other water (standing) was frozen but not the seep. Water was seen bubbling up in several areas. Approx 40cm deep, 6 feet by 5 feet. Dormant frogs observed in leaf litter in the pond

Other Comments/Observations:

ELC Community Description and Classification

Map #: South [illegible] 22	Polygon:		
Surveyor(s): CK + DH	Date: 14 Nov 2014	Time start: 1400	finish: 1430
UTMZ: 17	UTMZ: 532805	UTMN: 5077404	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☒ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Deacription

Layer	HT	CVR	Species in Order of Decreasing Dominence (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	1	Red oak > Red maple
2	4	1	Red Maple
3	5	3	Red raspberry = bracken fern
4	6-7	2	Hair grass > Yellow grass = moss sp. = lichen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	N	N	N
BA:	Deadfall / Loge:	O	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Raspberry-Shrub Rock barren	Code:	R1S3a
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Commente

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							
		Easting							
		Northing							
	Slope	Position							
		Aspect							
		Percent							
		Slope Length							Drainage
Depth to...		Mottles							
		Gley							
		Water Table							
		Carbonates							
		Bedrock							Effective Texture (indicate below)
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								Moisture Regime
	Drainage								

first comm south of Bekanon Rd. (roadside)

ELC Community Description and Classification	Map #: 02SOHTL		Polygon:	
	Surveyor(s): OK + OH	Date:	Time start: finish:	
	UTMZ: 17	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☑ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☑ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☑ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☐ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☑ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☑ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Duna		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

red berried Elder

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	3	sp alder >> pop tree
2	4	3	~~hog suckle sp~~ > sp alder
3	6	3	tein sp
4	7	2	moss sp + snow

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	R	10-24	R	25-50	N	>50
	Standing Snags:	R	<10	N	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Matura	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	cultural thicket not enough info	Code:	CUT 1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario snd ELC Soils Description

		Pit/Auger #	17						Summary
Site Metrics	UTM	Zone	53309 E						Moisture Regime
		Easting	507755 N						
		Northing							
	Slope	Position							Drainage
		Aspect							
		Percent							
		Slope Length							
Depth to...		Mottles	5cm						Effective Texture (indicate below)
		Gley							
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero	org.	% CF		% CF		% CF	% CF
		Texture	10cm						
	2	Depth from zero 30cm		% CF		% CF		% CF	% CF
		Texture	silty clay → cast v med ribbon						
	3	Depth from zero		% CF		% CF		% CF	% CF
		Taxture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime	moist						
		Drainage							

ELC Community Description and Classification	Map #: 2 South		Polygon:	
	Surveyor(s): CKT OH	Date: 14 Nov 2014	Time start: 1130 finish: 1145	
	UTMZ: 17	UTMZ: 533036	UTMN: 5077511	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☑ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☑ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☐ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☑ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☑ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2			
3	4	4	raspberry (black) > Burdock > wood sorrel?
4	5-7	4	Weed sp

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

No trees

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Raspberry cultural thicket	Code:	CUT 1-5
Inclusion:		Code:	
Complex:	May be cum ?	Code:	

Community Profile Diagram/Comments

Need live plants
Cannot confirm @
this time → re-visit
2015.

Notes:

Tree Tally by Species

Prism Factor	2

	Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total							100
Basal Area (BA)							
Dead							

Soils Dntario and ELC Soils Description

		Pit/Auger #	TMs same as ELC utms.			Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles	4 cm			
		Gley	none			Effective Texture (indicate below)
		Water Table	n/a			
		Carbonates	none			
		Bedrock	none			

Soil Horizon Description									
1	Depth from zero	10cm org	% CF		% CF		% CF		% CF
	Texture	above ground							
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture	Hy clay							
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

ELC Community Description and Classification

Map #: 2 South	Polygon:		
Surveyor(s): CK + DH	Date: 14 Nov 2014	Time start: 1200	finish: 1300
UTMZ: 17	UTMZ: 532925	UTMN: 5077903	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
■ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	■ Tableland	☐ Lichen	☐ Swamp
■ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	■ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
■ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
■ Treed		☐ Bluff		■ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Pop tem ? Hawthorn > ACER saccha > bet pap ? wh spruce ? wh cedar
2	3	4	ash = pop tem Acer sacc
3	4	2	sugar maple = red maple
4	6-7	3	fern sp = sedge sp = gram sp > hemlock = moss sp

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0%-10% 2 10-25% 3 25-60% 4 > 60%

Stand Composition:	Size Class Analysis:							
		O	<10	A	10-24	R	25-50	N	>50
BA:	Standing Snags:	R	<10	R	10-24	N	25-50	N	>50
	Deadfall / Logs:	O	<10	O	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☑ Young	☐ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Fresh-moist poplar dec ▲ forest mineral	Code:	FOD8-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

boundary of cutting ▲ human activity

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soile Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone	17						Moleture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainege
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							
		Water Table	15 cm						Effective Texture (indicate below)
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero	org	% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture	Sandy silt							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Form

Project: Henvey Inlet
Field Staff: CK + OH
Map No.: 02 south

Date: 14 Nov 2014 Start Time: 11:00 End Time: 1500
Infrastructure: access rd
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ CUT1	cutblock thicket	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: see ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ CUT1-5	Raspberry Thicket	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: see ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOD3-1	Fresh-moist Poplar Deciduous Forest	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Trembling Aspen > Black Ash >> Sugar Maple > Paper Birch > White Spruce White Cedar

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ Cran	Dry-fresh Poplar	☐	☐	Low Shrub		
☐ SW	mixed mixed forest	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 532750 / 5073778

Inclusion/Complex:

Codes — HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

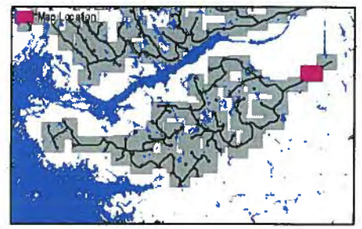
Map ID: HNV South 02

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

Map ID: HNV South 02

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

Nov 7, 2014
Olga H, Julie E

10/20/2014

0 25 50 100
Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** 11/07/14 **Start Time:** 9:30 **End Time:**

Field Staff: GH, JE **Infrastructure:**

Map No.: S02 **UTMs:**

533053/5077574 T8

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Ulmus = dominate, FRAXNG, ABIE BAL, THUJ OCC also present

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOC3-1	fresh-moist hemlock-Balsam fir conifer forest	☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: SOR PIC CAR

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOM5-2	Dry-fresh thicket meadow	☐	☑	Low Shrub	5	2
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	2	4
☐		☐	☑	Coniferous Tree	2	4
☐		☑	☑	Mixed Tree	21	4

Dominant/Notable Species: Balsam fir > Hemlock > POP TREM > BET PAP

Bracken fern, Bunchberry

Carex

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3-4
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3-4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ [redacted]	White Treed Rock	☐	☑	Low Shrub	4	2
☐	BCREN	☐	☑	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐ RBT BA		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: PINUSTRO [redacted] ACER RUB

ACER RUB, in subcanopy

Black berry canes in low shrub + TUNICATE

Grasse/tufted hair grass

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:** 533261 / 5077795 ±11

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte (moss)	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub	1	
☐		☐	☒	Low Shrub	5	2
☐		☐	☐	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
FRAX NIGR / BETU PUB	
ACER RUB >> VIBCAS	
FPRUS > CARex >> GRASS	

Sandy Bladder sedge

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	4	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	4	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Tamarack	
Bullrush	
Cranberry	
Sphagnum	

533229 / 5077982 01 4

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Jack Pine dominates >> PINUSTR	
No shrub layer	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOC3b	Fresh moist	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
See ELC card.	

Codes

HT: 1 = <0.2 m; 2 = >0.2 – 0.5 m; 3 = >0.5 – 1 m; 4 = >1 – 2 m; 5 = >2 – 6 m; 6 = >6 – 25 m; 7 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Community Description and Classification

Map #: SO2	Polygon:		
Surveyor(s): CHNE	Date: 11/07/14	Time start: 12 10	finish: 12 25
UTMZ: 17T	UTMZ: 5 333711	UTMN: 5027824	

+ 5m

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☑ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Conifercus	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

BAGS Fir Elem White S Pic.

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	ABIE BAL > TSUG (Hemlock) >> PINUS TR > PICEA GLA
2	4	2	ABIE BAL > Hemlock
3	6	1	CORN (Bunchberry) > ABIES BAL
4	7	2	moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite: FOC	Code:	FOC
Vegetation Type: FRESH-moist Balsam Fir-Hemlock conifer	Code:	FOC 308
Inclusion: trees	Code:	
Complex:	Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone	Sx				Moisture Regime
		Easting	heads				
		Northing					
	Slope	Position					Drainage
		Aspect					
		Percent					
		Slope Length					
Depth to ...		Mottles					Effective Texture (indicate below)
		Gley					
		Water Table					
		Carbonates					
		Bedrock	30cm				

Soil Horizon Description										
	1	Depth from zero	0-30	% CF		% CF		% CF		% CF
		Texture	organic							
	2	Depth from zero	30	% CF		% CF		% CF		% CF
		Texture	bedrock							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification	Map #: Map South 2	Polygon:	
	Surveyor(s): OH, JE	Date: Nov 7, 2014	Time start: 9:4 finish:
	UTMZ:	UTMZ: 533096	UTMN: 5077581 ± 5

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Drder of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Hemlock = ABIBALS > ~~BETPAPY~~ THUOCCI > BETPAPY
2	3	3	ABIBALS > HEMLOCK
3	4	2	Hemlock
4	5-6	2	Fern sp.
	7	2	Moss sp.

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	A	<10	O	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Fresh-Moist Hemlock-Balsam Fir	Code:	FOC3b *
Inclusion:	Coniferous Forest	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

									Summary
Site Metrics	Plt/Auger #		No satellite						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...	Mottles								
	Gley		15 cm						Effective Texture (indicate below)
	Water Table		10 cm						
	Carbonates		n/a						
	Bedrock		n/a						
Soil Horizon Description	1	Depth from zero	0	% CF		% CF		% CF	% CF
		Texture	Organic						
	2	Depth from zero	15 cm	% CF		% CF		% CF	% CF
		Texture	Clay						
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11/07/14	**Map No.:**	502
Field Staff:	JE/DH	**Infrastructure:**	Road - entrance Hwy 69
Start Time:	9:35	**End Time:**	
Weather:	-3°C / BS=1 / CC=85%		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		V		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		V		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		V		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		V		
Rocky island or peninsula:		V		
Mudflat present:		V		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		V		indicator:
Evidence of mineral lick:		V		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		V		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC) SWT				
Abundance of cavity trees:	Y		533053/5077574 SWT alder thick adjacent to main Road	
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		V		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		V		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		533053/5077574	SWT alder swamp w hummock + exposed roots
Massasauga gestation habitat:		V		
Skink Habitat/Nesting Area				
Forest with cover objects:		V		
Barren with cover objects:		V		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		V		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Cavity Trees: 533096 5057581 (F5)
DEER SCAT 533281 5057776 (F10)
MOOSE SCAT 533314 5057778 (F3)

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

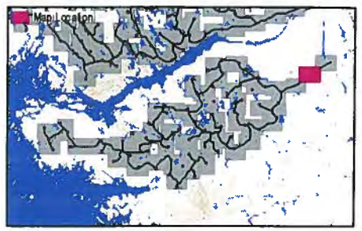
Map ID: HNV South 02

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

Nov 7, 2014
Olga H, Jamie E

10/20/2014

0 25 50 100
Meters

1:2,500

ELC Community Description and Classification

Map #: 05 South	Polygon: FoCla		
Surveyor(s): CK + JK	Date: 7 Nov 2014	Time start: 1300 pm	finish: 1533 pm
UTMZ: 17	UTMZ: 531235	UTMN: 5077125	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrina	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barran
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	White Pine = Balsam Fir >> Paper birch >> Red maple
2	3	3	Balsam Fir > Pap Birch >> Red maple
3	4-5	2	Balsam Fir
4	6-7	4	Bracken fern > sheep laurel : bunchberry = wintergreen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	R	N
BA:	Deadfall / Logs:	A	A	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Fresh - moist White Pine - Balsam Fir Coniferous Forest	Code:	FoCla 4
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Telly by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario end ELC Soile Description

										Summary
Site Metrics		Pit/Auger #	1							
	UTM	Zone 17								Moisture Regime
		Easting	531235							
		Northing	5077125							
	Slope	Position								
		Aspect								
		Percent								Drainage
		Slope Langth								
Depth to...		Mottles	50							
		Gley								
		Water Table	50 cm							Effective Texture (indicate below)
		Carbonates								
		Bedrock								
Soil Horizon Description	1	Depth from zero	4	% CF		% CF		% CF		% CF
		Taxture	organic							
	2	Depth from zero	13	% CF		% CF		% CF		% CF
		Texture	F. grey sand							
	3	Depth from zero	50	% CF		% CF		% CF		% CF
		Texture	orange fine sand							
	4	Depth from zero	65	% CF		% CF		% CF		% CF
		Texture	silty sand							
		% Surfaca Stone/Rock								
		Moistura Regime								
		Drainage								

ELC Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial	☐Organic	☐Lacustrine	☐Plankton	☐Lake
☐Wetland	☐Mineral Soil	☐Riverine	☐Submerged	☐Pond
☐Aquatic	☐Parent Min.	☐Bottomland	☐Floating-LVD.	☐River
Site	☐Acidic Bedrk	☐Terrace	☐Graminoid	☐Stream
☐Open Water	☐Basic Bedrk	☐Valley Slope	☐Forb	☐Marsh
☐Shallow Water	☐Carb. Bedrk	☐Tableland	☐Lichen	☐Swamp
☐Surficial Dep.		☐Roll. Upland	☐Bryophyte	☐Fen
☐Bedrock		☐Cliff	☐Deciduous	☐Bog
History		☐Talus	☐Coniferous	☐Barren
☐Natural		☐Crevice/Cave	☐Mixed	☐Meadow
☐Cultural		☐Alvar		☐Prairie
Cover		☐Rockland		☐Thicket
☐Open		☐Beach / Bar		☐Savannah
☐Shrub		☐Sand Dune		☐Woodland
☐Treed		☐Bluff		☐Forest
				☐Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Dsecription

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

ELC Form

Project: Henvey Inlet
Field Staff: AK + JK
Map No.: 05 South

Date: 07 Nov 2014
Start Time: 1230
End Time: 13:30 pm
Infrastructure: Twp 64
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☑	Broad Leaved Emergent	2	2
☐ BOT1a	Tamarack Cran Fern Bog	☐	☑	Narrow Leaved Emergent	2	2
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	2	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ [illegible]	[illegible]	☐	☑	Low Shrub	2 3	3
☐	[illegible]	☐	☑	Tall Shrub	2-3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / E531245 / N 5097045
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ RBT	white Pine Rock	☐	☐	Low Shrub		
☐ 3a1	barren	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	3	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / E531197 / N 5097070
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

Codes

HT: 1 = <0.2 m; 2 = >0.2 – 0.5 m; 3 = >0.5 – 1 m; 4 = >1 – 2 m; 5 = >2 – 6 m; 6 = >6 – 25 m; 7 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 0 = <0.2 m 5 = >0.2 – 0.5 m 6 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion SE Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	07 NOV 2014	**Map No.:**	05 South
Field Staff:	CK + JK	**Infrastructure:**	Turbine 64
Start Time:	1230	**End Time:**	1330
Weather:	-1°C, 20% CC		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	✓		17 E531250 N5077110 (1)	Water/wetland habitat: Yes SWT 3-1 Alder thicket Swamp Soil/peat: Yes (2) 531245/ 5077045
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	✓	✓	531197/ 5077090	~5 cavity trees w 20m of UTM
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:	✓		531197/5077090	→ moderate potential not high quality
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:	✓		531197/ 5077070	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		✓			
Cliffs and Talus Slopes *Tree cover but less than 60%		✓			
Old Growth Forest		✓			
Rare Forest Type – Jack Pine		✓			
Rare Forest Type – White Oak		✓			
Rare Forest Type – White Oak		✓			

Photo #	Location or Subject		Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

This turbine is sited in the middle of a small marsh. Should move to higher ground approximately.

Other Comments/Observations:

HENVEY INLET FIELD MAPS

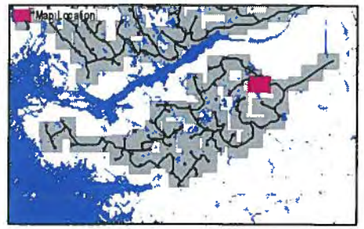
Map ID: HNV South 05

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification

Map #: 40 south	Polygon:		
Surveyor(s): CK + JK	Date: TNov 2014	Time start: 1015	finish: 1030
UTMZ: 17	UTMZ: 530560	UTMN: 5077405	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☑ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☑ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	T. Aspen > White Pine > Balsam Fir > Red Maple
2	3	4	White Pine = Balsam Fir
3	4	3	White Pine
4	6-7	3	Ground Pine = Blueberry = Moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	O	R	N
BA:	Deadfall / Logs:	A	A	O	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Red-moist Poplar-pine-fir mixed forest	Code:	FOM 84
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone 17							Moisture Regime
		Easting	530560						
		Northing	5077405						
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles	25cm						
		Gley							Effective Texture (indicate below)
		Water Table	25cm						
		Carbonates							
		Bedrock	120cm						

Soil Horizon Description												
	1	Depth from zero	10cm	% CF 0%		% CF		% CF		% CF		% CF
		Texture	Humic organic									
	2	Depth from zero	25	% CF		% CF		% CF		% CF		% CF
		Texture	fine sand									
	3	Depth from zero	55	% CF		% CF		% CF		% CF		% CF
		Texture	fine sand									
	4	Depth from zero		% CF		% CF		% CF		% CF		% CF
		Texture										
		% Surface Stone/Rock										
	Moisture Regime											
	Drainage											

ELC
Community Description and Classification

Map #: 26South	Polygon:		
Surveyor(s): CKK + JL	Date: 07 Nov 2014	Time start: 1050	finish: 1105
UTMZ: 17	UTMZ: 530920	UTMN: 5077495	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☑ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☑ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☒ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Birch > Balsam > Red maple
2	3	3	Balsam > Aspen > Birch > Red maple
3	4	3	Balsam > Red maple
4	5-7	3	Bunchberry > moss? Bracken fern > Balsam

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	R	R	N
BA:	Deadfall / Logs:	A	A	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:
Vegetation Type:	Fresh moist Aspen Birch Balsam deciduous mixed Forest	Code: FOM8-2
Inclusion:		Code:
Complex:		Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Onterio and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone	17						Moisture Regime
		Easting	530920						
		Northing	5077495						
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles	20						
		Gley							Effective Texture (indicate below)
		Water Table	40cm						
		Carbonates							
		Bedrock							

Soil Horizon Description											
	1	Depth from zero	3	% CF 0		% CF		% CF		% CF	
		Texture	organic								
	2	Depth from zero	20	% CF 0		% CF		% CF		% CF	
		Texture	FS								
	3	Depth from zero	70	% CF		% CF		% CF		% CF	
		Texture	FS								
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock									
	Moisture Regime										
	Drainage										

ELC Form

Project: Henvey Inlet Date: 07 Nov 2024 Start Time: ~~0900~~ 10:15 End Time:

Field Staff: CK + JK Infrastructure:

Map No.: 06 South UTMs:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent	4	4
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent	4	4
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid	4	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ MAS 3-4	Broad leave d sedge organi c marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
17 E 530950 N5057535	

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
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Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 1 = <0.2 m; 2 = >0.2 – 0.5 m; 3 = >0.5 – 1 m; 4 = >1 – 2 m; 5 = >2 – 6 m; 6 = >6 – 25 m; 7 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
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☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
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Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
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Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	7 Nov 2014	**Map No.:**	06South
Field Staff:	CK + JK	**Infrastructure:**	turbine 63
Start Time:	11 am	**End Time:**	1130
Weather:	-2°C 50% CC		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl: ✓ x2	✓		zone 17	No. and type of nests: 2 osprey or nelson 50mEq 530990 / 5077490
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:			MAS 3-4	Water/wetland habitat: Potential Amp breeding along marshy shoreline of beaver pond Soil/peat: Along E side of T63
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		Single tree 17E530945 N 5077497
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

- Moose sign everywhere
- Red sq.
- Raven
- Beaver activity + dams, foraging
- + RBNH

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Potential lynx spotted → Zone 17 E 530935 N5077435

HENVEY INLET FIELD MAPS

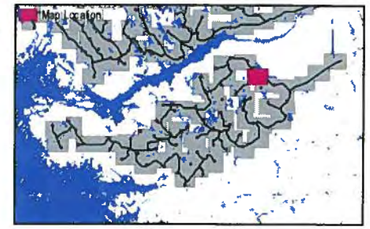
Map ID: HNV South 06

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

Map ID: HNV South 06

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
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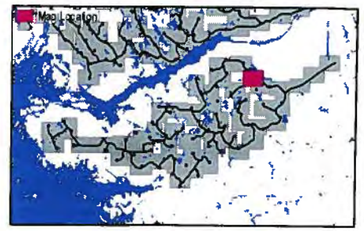

FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** Nov 6/14 **Start Time:** 10:30 **End Time:** 12:00 ~~3:00~~

Field Staff: Kamstra **Infrastructure:** T62-1 Road

Map No.: SO6 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5-6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☒ FOC 1-2	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☒	Dead Tree		
☐		☐	☒	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine ≫ Poplar sp. – Betpapy – Acglan. Acrubr.

530400 / 5077340

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ SWC4-1	Tamarack – Black Spruce Swamp	☐	☒	Low Shrub	4	2
☐		☐	☒	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack – Blk Spruce – Sp. Alder, Vib Cass

530345 / 5077330

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
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☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☒	☐	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☐	☒	Deciduous Tree	2	2
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alnnica dom. Franiga

530325 / 5077307

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ Rokx	Red Maple – Paper Birch	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☒	☒	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alc rubr ? Betpapy ≫ Acglan – Rhc strob

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
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Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes **HT:** **7** = <0.2 m **6** = >0.2 – 0.5 m **5** = >0.5 – 1 m **4** = >1 – 2 m **3** = >2 – 6 m **2** = >6 – 25 m **1** = >25 m

CVR: **0** = None **1** = 0% – 10% **2** = 10% – 25% **3** = 25% – 60% **4** = >60%

ALCOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11/05/14	**Map No.:**	South 6
Field Staff:	JK/JE	**Infrastructure:**	T62 + Road
Start Time:	2:00 pm	**End Time:**	3:30
Weather:	7°C, 2-3 BS, 100% CC, scattered light Rain		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub-Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, EO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:	Y		564 530 915/5077757	Lig Rocky outcrop road to T62, Treed Pine barren
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion SE Criterion Schedule and Species at Risk COSEWIC Reports

Date:	Nov 6/2014	**Map No.:**	S06
Field Staff:	Kamstra	**Infrastructure:**	T62
Start Time:	10:30	**End Time:**	~~[illegible]~~ 12:00
Weather:	3°C overcast, drizzle		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (RET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		X		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, GUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	X		530228/5077325 530245/5077220	Water/wetland habitat: Small Sedge Marsh in standing water among Alder swamp – good Amp site } T62 Soil/peat: Pool w/ Alders about 40cm deep, among Decid Forest 5x15m (mapped)
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		X		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		X		
Rocky island or peninsula:		X		
Mudflat present:				
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		X		Indicator:
Evidence of mineral lick:		X		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		X		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	X		530397/5077340	Several snag Poplars 530245/5077220 – several snags, also throughout FOD
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		X		
Mammal Denning Sites (FOD, FOM, FOC, SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		X		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		X		
Massasauga gestation habitat:	X		530415/5077348	Excellent Gest site on isolated barren surrounded by FOC (10x10m)
Skink Habitat/Nesting Area				
Forest with cover objects:	✓	X	RBT widespread.	
Barren with cover objects:	✓			
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		X		

yes skink

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		X		
Cliffs and Talus Slopes *Tree cover but less than 60%		X		
Old Growth Forest		X		
Rare Forest Type – Jack Pine		X		
Rare Forest Type – White Oak		X		
Rare Forest Type – White Oak		X		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Moose feces fresh at several location 530235/5077860 aka 530245/5077220

Beaver - fresh chewy, channels in alder swamp - 530230/5077325

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Form

Project: Henvey Inlet
Field Staff: Kamstra
Map No.: SO6

Date: Nov 6/14
Start Time: 10:30
End Time: 12:00
Infrastructure: T62-1 Road
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5-6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☒ FOC 1-2	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☒	Dead Tree		
☐		☐	☒	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine ≫ Poplar sp. – Betpapy – Picglau – Acrubr
530400 / 5077340

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ SWC4-1	Tamarack – Black Spruce Swamp	☐	☒	Low Shrub	4	2
☐		☒	☐	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack – Blk Spruce – Sp. Alder, Vib CASS
530345 / 5077330

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alnus dom., Fraxlgr
530325 / 5077307

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ Rosa	Acer Maple – Paper Birch	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☒	☒	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Acrubr > Betpapy ≫ Picglau – Antreb

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Code **HT:** 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet
Field Staff: Kaunstra
Map No.: 506

Date: Nov 6/14
Start Time: 10:30
End Time: 12:00 3:00
Infrastructure: TR27 Road
UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5-6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☒ FOC 1-7	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☒	Dead Tree		
☐		☐	☒	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine ≫ Aspen – Betpapy – Acglau – Rubus
530400 / 5077340

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☒	☐	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☐	☒	Deciduous Tree	2	2
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alnnica dom, Franiqr
530325 / 5077307

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ SWC4-1	Tamarack – Black Spruce Swamp	☐	☒	Low Shrub	4	2
☐		☒	☐	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack – Blk Spruce – Sp. Alder, Vib Cass
530345 / 5077330

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOD2	Red Maple – Paper Birch	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☒	☒	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Acrubr > Betpapy ≫ Acglau – Aconreh

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

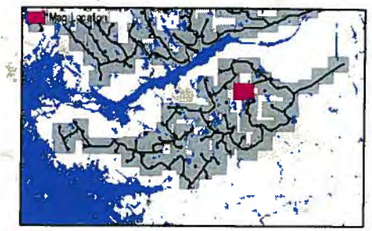
Map ID: HNV South 07

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (180m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** Nov. 4, 2014 **Start Time:** 12:30 pm **End Time:** 2:30 pm

Field Staff: Kamstra **Infrastructure:**

Map No.: 507 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☒	☒	Robust Emergent	5	4
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Typha	

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWC4-1	Tamarack - Black Spruce Swamp	☐	☒	Low Shrub		
☐		☒	☐	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☒	☒	Graminoid	6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOD3-2		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Carex cf lasiocarpa >> chacaly	

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 1 = <0.2 m; 2 = >0.2 – 0.5 m; 3 = >0.5 – 1 m; 4 = >1 – 2 m; 5 = >2 – 6 m; 6 = >6 – 25 m; 7 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Nov 4/2014 **Start Time:** 12:30 **End Time:** 2:00

Field Staff: Kamstra **Infrastructure:** TH

Map No.: 507 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOM 5-2	Birch-Poplar-Pine	☒	☐	Low Shrub		
☐		☐	☐	Tall Shrub	3	3
☐		☒	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree	2	4

Dominant/Notable Species: P.Birch - Aspen - W.Pine > Red Maple

Inclusion/Complex: Vernal Pool

530040 / 5077125

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	5	3
☐		☐	☒	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2	2-3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine > W.Pine, Red Pine, P.Birch

Inclusion/Complex:

529995 / 5077100

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub	4	2
☐		☐	☒	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☒	☐	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: BT Aspen, Paper Birch, W.Pine, Red Maple

Inclusion/Complex:

530005 / 5077045

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5/6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOM 2	W.Pine - Poplar	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☒	☐	Mixed Tree	2	4

Dominant/Notable Species: W.Pine, BT Aspen, Paper Birch, Bracken

Inclusion/Complex:

529900 / 5076970

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Nov 6/14 **Start Time:** 2:00 pm **End Time:** 3:15 pm

Field Staff: Kamstra **Infrastructure:** T61

Map No.: 507 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☒	☐	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3-4	Carex stricta Marsh	☐	☐	Low Shrub		
☐	organic	☐	☒	Tall Shrub Alder	3	1
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Carex stricta, Calamagrostis can.

529765 / 5076870

Inclusion/Complex: fringe of Alder Thicket swamp

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ BOS1-1	Leatherleaf Shrub Bog	☒	☐	Low Shrub	5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree	2/2	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Leatherleaf – Chain Fern

529775 / 5076740

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ RBT3-1	mixed Pine-oak Treed RB	☐	☒	Low Shrub Juniper	5	2
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☒	☐	Mixed Tree	2/3	2

Dominant/Notable Species: Jack Pine – Red Oak – W. Pine – BT Aspen, Com. Juniper

529680 / 5076760

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOD	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Community Description and Classification

Map #: S06 / S07		Polygon:	
Surveyor(s): Kaustler	Date: Nov 6	Time start: 11:15 finish: 12:00	
UTMZ: 17T	UTMZ: 530235	UTMN: 5077275	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Acerubr > Betpapy >> Picglau - Pinstro - Poptrem
2	3/4	3	Acerubr
3	4	2	Corcorn - Acerubr
4	5/6	4	Pteaqui - Lyco etc

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:									
	Size Class Analysis:	A	<10	A	10-24	O	25-50		>50
	Standing Snags:	O	<10	R	10-24		25-50		>50
BA:	Deadfall / Logs:	A	<10	O	10-24	O	25-50	R	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Fresh Moist Red Maple - Paper Birch	Code:	FOD 8aA
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #									Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position	level							
		Aspect								Drainage
		Percent	0							
		Slope Length								
Depth to...	Mottles									Effective Texture (indicate below)
	Gley									
	Water Table									
	Carbonates									
	Bedrock									
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification	Map #: 507		Polygon:	
	Surveyor(s): Kamstra	Date: Nov 6/14	Time start: 12:00 finish: 12:30	
	UTMZ: 17 T	UTMZ: 530130	UTMN: 5077135	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☒ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☒ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☒ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☐ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Acerular > Pertapy - Poptrem
2	3/4	5	Alninca > Illvert
3	5	4	ferns etc
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	A	25-50		>50
	Standing Snags:	O	<10	A	10-24	O	25-50		>50
BA:	Deadfall / Logs:	A	<10	O	10-24	O	25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Red Maple Mineral Swamp.	Code:	SWD 3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: many standing Birch snags - transitionally from Birch + Poplar to Red Maple

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #								Summary
Site Metrics	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...		Mottles								Effective Texture (indicate below)
		Gley								
		Water Table								
		Carbonates								
		Bedrock								
Soil Horizon Description	1	Depth from zero	10	% CF 0		% CF		% CF		% CF
		Texture	Organic							
	2	Depth from zero	30	% CF 0		% CF		% CF		% CF
		Texture	Sandy loam							
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	November 6/2014	**Map No.:**	S07
Field Staff:	Kaunisto	**Infrastructure:**	T61
Start Time:	12:00	**End Time:**	3:15pm
Weather:	4°C, overcast + drizzle		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		X		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	X		530130/5077135 530035/5077125	Water/wetland habitat: Amphibian Potential – vernal pools in Bottomless Swamp - throughout unit Soil/peat: Pot. Amphib Pool 40cm deep between FOM and RBT
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		X		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		X		
Rocky island or peninsula:		X		
Mudflat present:		X		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		X		Indicator:
Evidence of mineral lick:		X		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		X		some Red Oak but not quality as SWH
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		X		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		X		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		X		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	✓	/	529730/5076698 529830/5076920 529853/5076920	Several Potential Gestation Site - within 15m from Point – On T61 to 529745/5076675 Gestation Area of jumbled rocks 5×10m on barren Possible gestation site on barren
Massasauga gestation habitat:	✓		530057/5077105 529998/5077095 529913/5077025	Tiny rock + fissure under juniper - photo Rock + fallen tree on rock barren Fissure + large boulders on barren in Bush Honeysuckle - photo Several nearby rockpiles in 10×20m area
Skink Habitat/Nesting Area				
Forest with cover objects:		X		
Barren with cover objects:	✓		RBT	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		X		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		X		
Cliffs and Talus Slopes *Tree cover but less than 60%		X		
Old Growth Forest		X		
Rare Forest Type – Jack Pine		X		
Rare Forest Type – White Oak		X		
Rare Forest Type – White Oak		X		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Red Squirrel
Moose – fresh droppings + abundant browse on Red Maple Sapling at 530005/5077045
– also fresh feces near T61 at 529775/5076830
BLJA, BCCH, CORA
Meadow Vole

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Potential Amp Breeding 529875/5076980 Ephemeral Pool in Dec Swamp W Alde 5x10m 40cm deep

HENVEY INLET FIELD MAPS

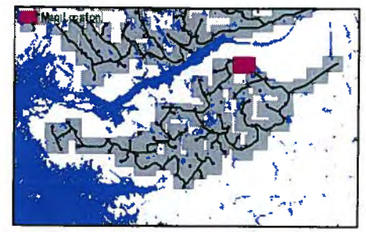
Map ID: HNV South 08

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification	Map #: 8 South		Polygon:	
	Surveyor(s): JK JE	Date: 11/05/11	Time start: 10:25 finish: 10:35	
	UTMZ: 17T	UTMZ: 529870	UTMN: 507819D	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mln.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☑ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	PINSTRO = QUERRUBY BETAL = ACER RUB
2	3-4	3	ACER RUB > QUER RUB > PINSTRO
3	5	3	BRACKETT FERN > Wintergreen > VACCANG
4	6	2	↓

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	O	25-50	R	>50
	Standing Snags:	R	<10	O	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	A	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☑ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-Fresh White Pine - Oak mixed Forest	Code:	FOM21
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Bear & BAT Habitat

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Onterio and ELC Soils Description

		Pit/Auger #								Summary
Site Metrics	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...		Mottles								Effective Texture (indicate below)
		Gley								
		Water Table								
		Carbonates								
		Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Community Description and Classification

Map #: MAP South 8		Polygon:	
Surveyor(s): JE/JK	Date: 11/05/14	Time start: 10:05 finish: 10:22	
UTMZ: 17T	UTMZ: 529820	UTMN: 5078230	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☑ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☑ Barren
☑ Natural		☐ Crevice/Cave	☑ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	~~3~~ 2	PINSTRO = PINBANK > QUERUB
2	3	2	PINSTRO = QUERUB
3	5	3	COM JUNCOM
4	6	2	DESFLEX = VACANGU LICHEN

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% – 10% 2 10 – 25% 3 25 – 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	R	10-24	O	25-50	N	>50
	Standing Snags:	O	<10	R	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	O	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	RB	Code:	
Vegetation Type:	White Pine - Red oak Acidic Rock Barren	Code:	RBT3b
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

Site Metrics	Pit/Auger #									Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...	Mottles									Effective Texture (indicate below)
	Gley									
	Water Table									
	Carbonates									
	Bedrock		0-15cm							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Form

Project: Henvey Inlet **Date:** 11/05/14 **Start Time:** 10:00 **End Time:** 1:00

Field Staff: JE/JK **Infrastructure:** 7704

Map No.: MAP8/South **UTMs:** accuracy ± 3m

529675/5078185

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5-6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWT1		☐	☑	Low Shrub	4	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	2	4
☐		☑	☑	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: white Pine is co-dominate

Inclusion/Complex:

529720/5078205

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT1-1	Leather leaf shrub	☑	☑	Low Shrub	4-5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: some white pine

Inclusion/Complex:

530110/5078815

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOD5-2	Dry-Fresh Pop mixed	☐	☑	Low Shrub	4	3
☐		☐	☑	Tall Shrub	3	2
☐		☐	☑	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☑	☑	Mixed Tree	2	4

Dominant/Notable Species: PInSTO > POPTRE > BET PAP
ACER RUB dominates shrub layer.

Inclusion/Complex: SWD3-1

530220/5079505

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☑ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	4	3
☐		☐	☑	Tall Shrub	4	3
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: RPTREM > ACER RUB
Shrub layer = ACER RUB
Ground = Bracken Fern

Inclusion/Complex:

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** NOV. 5/2014 **Start Time:** 1:00 **End Time:** 2:30

Field Staff: **Infrastructure:**

Map No.: S08 **UTMs:** 530210/5078026

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☑	☑	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☑	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder Incanta dominant w sphagnum moss

Inclusion/Complex:

530227/5079115

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWD4-3	W Birch-Asp Min.	☐	☐	Low Shrub		
☐	decid. swamp	☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: BEP Betpap = Dom in conifer plant
ALNINCA = Dominant in shrub
VIBCAS = ILEVERT

Inclusion/Complex:

5303415/5077600

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOC1-2	White Pine - Red Pine	☐	☐	Low Shrub		
☐	conifers dry-s	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: PINSTO > PINRES1

Inclusion/Complex:

from across OAO

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT8-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 05/14	**Map No.:**	MAP Southern 8
Field Staff:	JK/JE	**Infrastructure:**	T104
Start Time:	10:00	**End Time:**	1:00
Weather:	4°C/BS = 2-3, 100% CC - no rain		

accuracy ± 3m

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		529675/5078185 529820/5078205	Water/wetland habitat: Vernal pool 30-40cm Soil (peat) extensive vernal pools in mixed forest
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:	Y		529990/5078209	FOM2-3 - Bears harvest acorns.
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		529930/5078223	Mature Mixed pine-oak, several cavity trees woodpecker
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat: see more on back	Y		530212/5078070 530237/5078086 530215/5078097 530204/5077987	@T104 fissured rock w Juniper cover " " near 104, large cluster of open rock, good gestation site.
Skink Habitat/Nesting Area				
Forest with cover objects:				
Barren with cover objects:	Y		RBT30	Widespread through
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Moose Scat: 529620/5078220, 530185 5078090, 530237/5078080, 530160 5078055 (T104)
Deer Scat: 529720/5078220 (many) 530147/5078090
Bear scat: 529820/5078225
PIWO, BCCH, Red-breasted nut hatch, HAWO
Deer → 530235/5078050 (rub & tracks)
Rattlesn Gest: 53020/5077840, 530215/5077850 (Road past 104)
Fox Scat: 530255/5077845

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

FOM2-3: bear scat, mast sp. bears pulling down oaks for acorns
AMPIB Breed: 530080/5078130, ~~5078100~~ 5078107/530100; 530220/5078030, 530160/5078055 (@T104) small alder thick swamp 40cm deep
Cavity Trees: 530110/5078175
Amplib Breed: 530185/5077992 (close to 104) 740m deep

Blandings turtle over wintering: 530345 | 5077800 Lake/OAO adjacent to large wetland, organic substrate, water lily present

ELC Form

Project: Henvey Inlet
Field Staff: CKL + DH
Map No.: 9 South

Date: 04 Nov 2024
Start Time: 12pm
End Time: 4:00 pm
Infrastructure: access road
UTMs: See individual utms for communities below

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOC 1-2		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☑	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☑	☑	Coniferous Tree		
☐		☐	☑	Mixed Tree		

Dominant/Notable Species: See ELC card for community description
Inclusion/Complex: 1 of a few pockets of

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☑ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	1	3
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	1	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	3-2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Winterberry Organic thicket swamp inclusion of
Inclusion/Complex: BOT1-1 and SWT3-7 small pockets of Bog interspersed in RBT3-2

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☐	Tall Shrub	4	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: inclusion of 17 E 529263 N 5077871 Speckled Alder > Winterberry 1.8m > sheep laurel
Inclusion/Complex: ✓ incl of FOD5-10a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
MAM3-1	Broad-leaved sedge organic shallow marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 E 529253 N 5077835 See ELC card for community desc.
Inclusion/Complex: Incl. of FOD5-10a

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Field Staff: CKK + OH

Map No.: 9 South

Date: 04 Nov 2014 Start Time: 12 pm End Time: 2pm

Infrastructure: access road

UTMs:

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 E929152 N5079831 ± 8m

Inclusion/Complex:

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☐	Deciduous Tree	3-2	3-4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Black Ash dominant, some Red Maple, Poplars ~~and~~, sheep laurel, grass, dnat Sedges. 529200 5077850

Inclusion/Complex:

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Leatherleaf > sheep laurel moss sp.

Inclusion/Complex:

BOT Leatherleaf bog 17 E929082 5079803

ELC Code:	Community Name	Dominant	Present	Plant Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐	Dry-Fresh Red Maple White Birch Poplar Deciduous Forest Type	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐ FOD5a		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: see ELC Card 529191 5077848 529167 5077885

Inclusion/Complex:

Codes: HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Field Staff: O Kopijawko + O Hopach

Map No.: 9 & South

Date: 04 Nov 2014 Start Time: 0930 End Time:

Infrastructure: access road to 57,59.

UTMs:

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☑ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ [illegible]	[illegible]	☐	☐	Low Shrub		
☐ [illegible]	[illegible]	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
FOD3-1 see ELC card 04 Nov 2014 non-surveyed	

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☑ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ ~~BOT2-1a~~	white pine - leatherleaf bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐ BOT1a		☐	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
see ELC card.	

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ ~~BOT1~~	~~5-3a~~ White Pine	☐	☐	Low Shrub		
☐ RBT3a	Treed Rock Barren	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☐	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
see ELC card.	

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ ~~SWD5-3a~~		☐	☐	Low Shrub		
☐ FOD5b		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

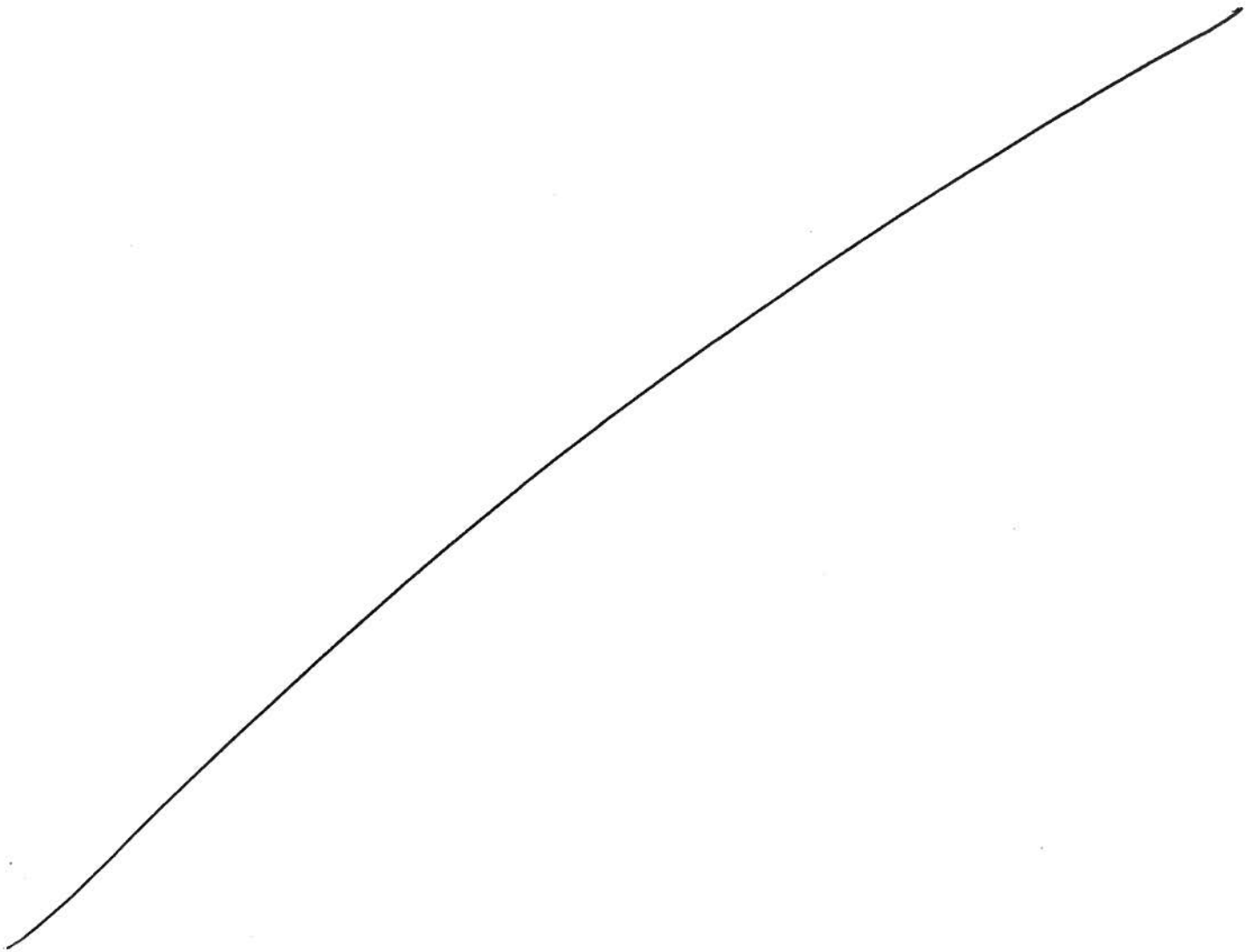
Dominant/Notable Species	Inclusion/Complex
See ELC card	

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM



ELC Form

Project: Henvey Inlet **Date:** 5 Nov 2015 **Start Time:** 9:30 **End Time:** 10:00

Field Staff: OH, CK **Infrastructure:** Access Road, T60

Map No.: South 9 **UTMs:**

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWD6a	Low Maple Paper Birch Organic Deciduous Swamp.	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐ SWD6a		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
See ELC Card.	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** _____ **Start Time:** _____ **End Time:** _____

Field Staff: _____ **Infrastructure:** _____

Map No.: _____ **UTMs:** _____

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

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ELC Community Description and Classification

Map #: 9 Sou 4th	Polygon:		
Surveyor(s): CKK + CH	Date: 05 Nov 2015	Time start: 930	finish: 10 am
UTMZ: 17	UTMZ:	UTMN:	

Polygon Description 45° 51' 9" N 80°37' 14" W

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☑ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Red Maple > Paper birch
2			
3	4	4	winterberry
4	5-7	3-4	Seeds > Branch berry

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:							
		A	<10	A	10-24	R/N	25-50	N	>50
BA:	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Red Maple - Paper birch organic deciduous swamp.	Code:	SWD1a
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diegram/Comments

Notes:

Tree Tally by Species

Prism Fector: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description									
1	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
	Moisture Regime								
	Drainage								

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Mln. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock

History
☐Natural ☐Cultural

Cover
☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0%-10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecoelte:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (Indicate below)
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #: 9 South	Polygon:		
Surveyor(s): OKR + OH	Date: 04 Nov 2014	Time start: 12 pm	finish: 2 pm
UTMZ: 17	UTMZ: 529191	UTMN: 5077848 ± 9m	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☑ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Red maple >> white birch > black ash
2	3	2	Red maple = white birch
3	4	2	Red maple = sp. alder > winterberry
4	5-7	2	Bracken fern >> balsam fir

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	R	R	N
BA:	Deadfall / Logs:	A	O	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:
Vegetation Type:	Dry-fresh Red maple white birch poplar deciduous forest	Code: FOD5-10a
Inclusion:		Code: FOD5a
Complex:		Code:

Community Profile Diagram/Comments

Notes:
another FOD5-10a north of flooded dirt road in SWD5+1
529167 5077885

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					Effective Texture (indicate below)
		Gley					
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

ELC Community Description and Classification

Map #: 9South	Polygon:		
Surveyor(s): CKK + OH	Date: 04 Nov 2014	Time start: 12 pm	finish: 2 pm
UTMZ: 17	UTMZ:	UTMN:	

Polygon Description

See map for community delineation

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☑ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☑ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Tamarack > Red maple
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☑ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Tamarack organic coniferous swamp	Code:	3WC 4-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (indicate below)
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC Community Description and Classification

Map #: 9 South	Polygon:		
Surveyor(s): CK + OH	Date: 04 Nov 2014	Time start: 9:45	finish: 2:00
UTMZ:	UTMZ:	UTMN:	

Polygon Description

507 8210 5829540

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☑ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☑ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	white Pine >> Jack Pine
2	3-4	2	white Pine > Jack Pine > bet pap
3 5	5-6	4	leatherleaf >> short fennel
4	7	4	moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	O	R	N
BA:	Deadfall / Logs:	O	O	R/N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	white Pine - leatherleaf treed bog	Code:	~~BOT 2-2a~~
Inclusion:		Code:	BOTld
Complex:		Code:	

Community Profile Diagram/Comments

not ELC code

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Dreinage
		Percent					
		Slope Length					
Depth to...		Mottles					Effective Texture (indicate below)
		Gley					
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC
Community Description and Classification

Map #: 9 South		Polygon:	
Surveyor(s): CKK TOH	Date: 04 Nov 2014	Time start: 0945	finish: 2 pm
UTMZ:	UTMZ:	UTMN:	

Polygon Description

see map for community delineation

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	POPTREM > ACERUBR > BETPAPY
2	4	4	acer rub
3	5-6	3	bracken fern >
4	7	2-3	wintergreen > bunchberry

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	A	O	N	N
BA:	Deadfall / Logs:	O	R	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Ags:	Pioneer	Young	Mid-Age	Mature	Old Growth
	☐	☑	☐	☐	☐

		Code:	
Ecosite:			
Vegetation Type:	dry-fresh poplar oak forest	Code:	FOD3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					
		Percent					
		Slope Length					Drainage
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (indicate below)
		Carbonates					
		Bedrock					

Soil Horizon Description										Summary
	1	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	2	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock									
	Moisture Regime										
	Drainage										

ELC Community Description and Classification	Map #: 9 south		Polygon:	
	Surveyor(s): CKK + OH	Date: 04 Nov 2014	Time start: 12pm finish: 4 pm	
	UTMZ:	UTMZ:	UTMN:	

Polygon Description

→ see map delineation for location large polygon

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☑ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Laysr	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Red Pine > white Pine >> wh birch > lg tooth aspen
2			
3	4	3	Red maple > red pine
4	6-7	3	wintergreen = bunchberry = bracken stern.

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	O	25-50	F	>50
	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	O	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-fresh Red Pine - White Pine Coniferous Forest	Code:	SC1-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

		Pit/Auger #							Summary
Site Metrics	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							Effective Texture (indicate below)
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

ELC Community Description and Classification

Map #: 9 South | Polygon:

Surveyor(s): CKK + OH | Date: Aug 2014 | Time start: 12:00 pm | finish: 4 pm

UTMZ: 17 | UTMZ: 529255 | UTMN: 5074955

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☑ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☑ Marsh
☑ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominence (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2	4	2	Sp. alder
3	5	4	Cedar thuja
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:							
		A	<10	R	10-24	N	25-50	N	>50
BA:	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
	Deadfall / Logs:	O	<10	R	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Broad-leaf sedge and shallow	Code:	MAS 3-4
Inclusion:	marsh inclusion	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

→ ☆ see photos

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

			Pit/Auger #			Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
	Moisture Regime					
	Drainage					

ELC
Community Description and Classification

Map #: 9 south	Polygon:		
Surveyor(s): KH OH	Date: 04 Nov 2024	Time start: 9:45	finish: 2:00
UTMZ:	UTMZ:	UTMN:	

Polygon Description

See Map for delineations

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☑ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	White Pine >> jack Pine. >> ~~[illegible]~~ > Red oak
2	3	2	white pine
3	5	3	juniper >> balsam fir
4	07	3	mosses + lichen.

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:								
		O	<10	A	10-24	R	25-50	N	>50
BA:	Standing Snags:	O	<10	O	10-24	R	25-50	N	>50
	Deadfall / Logs:	A	<10	O	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	White Pine Treed rock barren	Code:	RBT 3-3
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

RBT3a

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (indicate below)
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #: 9South	Polygon:		
Surveyor(s): CK + OH	Date: 04 Nov 2014	Time start: 9:45	finish: 2:00
UTMZ: 17	UTME: 520537	UTMN: 5078215	

Polygon Description

1 6m

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mln.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☑ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	1-2	4	Red maple > Hemlock > White birch = White pine
2	2-3	3	Red maple = red oak
3	4	2	winterberry
4	6-7	2	bracken fern = mosses

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	R	R
BA:	Deadfall / Logs:	A	O	O	R

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-fresh Red maple-oak decid. forest	Code:	FOD5-3a
Inclusion:	winterberry SWT3-7	Code:	FOD5b
Complex:	Berry	Code:	

Community Profile Diagram/Comments

no ELC code.

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					Effective Texture (indicate below)
		Gley					
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

② Vernal pool = 17 E 529384 N 5078110 ±8 40cm deep

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	~~04 Nov 2014~~ Nov 4-5, 2014	**Map No.:**	South 9
Field Staff:	CKK + UH	**Infrastructure:**	access road south of T59, 57+60
Start Time:	0930	**End Time:**	3:45
Weather:	10°C, CC 100%		

SWH and/or SAR Habitat Feature	Present Y	Present N	Zone 17 UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y	1	529359 E 5078061 N ±9m 17	Water/wetland habitat: Amph Br = vern. pool → old sand pit ⇒ fallen logs 30cm deep surrounded by sph moss, wh pine, bullrush Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp: None		17	E529487 N 5078214	→ ±14m → various cavity trees throughout RBT 2-3 (wrong line) RBT-3-2?
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		529374/5078102	mass rattlesnake bedrock w/gaps ±8m
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:				
Barren with cover objects:	✓		RBT3-2	several suitable sites throughout polygon
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:				

①/2

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject
	ask Olga for photos		

Incidental Wildlife Observations:

RBNH
CHICKADEE
Downy woodpecker.
Moose Scat
Bear Scat 17 E529392 N5078100 ±6m

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

standing snag woodpecker activity 17 E529429 N5078172 ±7m
Deer trail 17 E529445 N5078196 ±7m

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	04 NOV 2014	**Map No.:**	9 South
Field Staff:	CKF + OH	**Infrastructure:**	Turbine road to T57
Start Time:		**End Time:**	
Weather:	10°C 100% CC		

(5) 45°51'13" N vernal pool in FOC1-2
80°37'16" W

(6) 45°51'12" N vernal pool in FOC1-2
80°37'15" W ± 25-30 cm deep

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:				No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	4 (3) 17		E 529255 N 5077855 →	Water/wetland habitat: Soil/peat: ~~fm~~ MAS 3-4 + SW0 + 3-1
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

(4) 529175 5077887 ± 6m flooded section of dirt road ≈ 30-40 cm deep

See ~~BE~~ SWH form (1)/2 for completed list of SWH features

(2)/2 ⇒ This is additional standing water features that didn't fit on SWH form 1/2

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh				
Cliffs and Talus Slopes *Tree cover but less than 60%				
Old Growth Forest				
Rare Forest Type – Jack Pine				
Rare Forest Type – White Oak				
Rare Forest Type – White Oak				

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

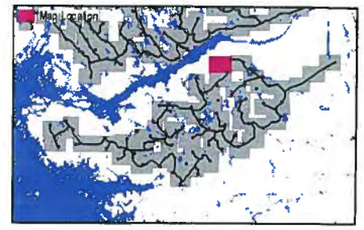
Map ID: HNV South 09

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES: O.H, C.K

10/20/2014

0 25 50 100
Meters
1:2,500

Add Post-It
Inclusions

ELC Community Description and Classification	Map #: South 10		Polygon:	
	Surveyor(s): OH, CK	Date: Nov 5, 2014	Time start: 9:00 finish: 13:00	
	UTMZ: 529419	UTMZ: 5077495	UTMN:	

±9m

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☒ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☒ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.	?	☒ Roll. Upland	☒ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	BETPAPY >> ACERUBR > POPTREM
2	3	3	BETPAPY > ACERUBR
3	4	4	ACERUBR > VIBURNUM CASSINOIDES
4	5-6	4	BRACKEN FERN > BUNCHBERRY > TRIBORE (starflower)

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	O	25-50	R	>50
	Standing Snags:	O	<10	A	10-24	O	25-50	R	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	☒	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant R3

Com. Age:	☐ Pioneer	☐ Youog	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-Fresh White Birch Decidous Forest	Code:	FOD3-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: ~~Undere~~ Subcanopy more dominated by Red Maple, may succeed to Red Maple FOD
Lots of snags present => may be potential but maternity colony habitat

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Plt/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site				
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History				
☐Natural ☐Cultural				
Cover				
☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snage:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Form

Project: Henvey Inlet **Date:** 5 Nov 2014 **Start Time:** 0900 **End Time:** 1300

Field Staff: CKK+DM **Infrastructure:** access road + tubbies

Map No.: South 10 **UTMs:** n/a

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
● RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	●	Low Shrub	4	2-3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		●	☐	Coniferous Tree	2-3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Common Juniper (patches), Sheep Laurel, Bracken Fern

Inclusion/Complex: Leatherleaf Bog interspersed throughout

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
● BOT1-1	Leatherleaf-Sphagnum	●	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐

ELC Form

Project: Henvey Inlet

Field Staff: CKK + OH

Map No.: 9 south South 10

Date: 05 Nov 2024 Start Time: 900 End Time: 1300

Infrastructure: access road to T60

UTMs: This makes no sense

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1e	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWC4-2	Tamarack organic swamp	☐	☑	Low Shrub	4	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	3	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack > White Pine, Alder + Winterberry Shrub layer. Sheep laurel

Inclusion/Complex

45°51'7"N 80°37'10"W SEE ELC CARD for Map South 9

45°51'4"N 80°37'3"W

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOC1-2	Dry-fresh Red Pine – White Pine Coniferous Forest	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	4	3
☐		☑	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species

Inclusion/Complex

SEE ELC CARD FOR MAP SOUTH 10

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOD3-2	Dry-fresh white birch	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: SEE ELC Card for description and UTMs

Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
● SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		●	☐	Tall Shrub	4	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 529379 5077458 speckled alder, red osier, sheep laurel, Broken Fern

Inclusion/Complex

Codes: HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	5 Nov, 2014	**Map No.:**	South 10
Field Staff:	OH CK	**Infrastructure:**	access road + Turbine
Start Time:	9:00	**End Time:**	0400
Weather:	5°C, Overcast, Rain (dri336)		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BDO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		45°51'6"N 80°37'11"W	large cavity tree
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:	Y	(2)	17 529339 5077440±5 17 529121 5073138±6	RBTS-2 located ~~near~~ T w/in TSS base
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Barred Owl 17T 529379 5077458 ± 8m
Grey squirrels
Moose Scat
Bear scat
Collembola SP
Deer scat
Ravens
Chickadees
Ruffed grouse
RTHA

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

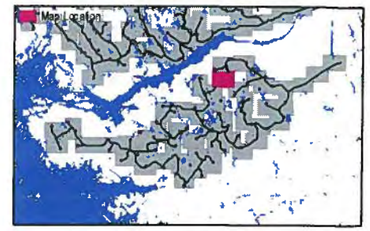
Map ID: HNV South 10

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** 06 Nov 2014 **Start Time:** 1200 **End Time:** 1400

Field Staff: DH CK **Infrastructure:** Access Road, T56

Map No.: South 11 **UTMs:** n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb	6	7
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4-5	4
☐		☐	☐	Dead Tree		
☐		☐	☒	Deciduous Tree	4	2
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Speckled Alder, Wintergreen, Paper Birch (Fw), moss, bracken fern, sheep sorrel.

Inclusion/Complex:

528590 5076840 ± 5m

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☒ SWD5-1	Black Ash Organic Deciduous Swamp	☒	☐	Graminoid	6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3-1	Broad leaved graminoid shallow marsh	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Carex utriculata dominant, sheep sorrel, sweet flag, succulents by ATV track

Inclusion/Complex:

528589 5076845 ± 5m

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☒ SWD5-1	Black Ash Organic Deciduous Swamp	☒	☐	Graminoid	6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3-1	BROAD Leaved Sedge Organic Shallow marsh	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub	4	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree	2	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Carex utriculata, blue joint grass, speckled Alder, Jack Pine, Red Maple, moss

Inclusion/Complex:

528533 5076897 ± 7m

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Cards

Inclusion/Complex:

528533 5076593 ± 5m

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** 06 Nov 2014 **Start Time:** 1200 **End Time:** 1400

Field Staff: DH + CK **Infrastructure:** access roads + turbines

Map No.: South 11 **UTMs:** n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	4
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☐	Deciduous Tree	2	2
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
same as SWT3-1 (2) see ELC Card for description. With a few Red Oak> on the perimeter 521971, 5076855 ±7 m	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Nov 5, 2014 **Start Time:** 1:00 **End Time:** 3:45

Field Staff: O. H, T. K **Infrastructure:** access road, T58

Map No.: South II **UTMs:**

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	■	☐	Bryophyte		4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
■ BOS1-1	Leatherleaf Shrub Bog	■	■	Low Shrub		4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	■	Coniferous Tree	4	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Leatherleaf Bog surrounding edge of a cottongrass open bog. Also, face pine present 529285 5077167 ±9m

Inclusion/Complex: BOO1-2 cottongrass open bog

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	■	Forb		3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	■	Bryophyte		2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
■ SWD5-1	Red Maple Organic Dec Swamp	☐	☐	Low Shrub		
☐		☐	■	Tall Shrub	4	3-4
☐		☐	☐	Dead Tree		
☐		■	☐	Deciduous Tree	2-3	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
■ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	■	Lichen		
☐ FOC	Coniferous Forest	☐	■	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		■	■	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		■	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Common Juniper,

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
■ SWC4-2	Tamaracks organic coniferous swamp	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		■	☐	Coniferous Tree	16m	50%
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Card

528941 5077067 ±7m

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** 5 NOV 2014 **Start Time:** 7 **End Time:** 3:45

Field Staff: OH / CK **Infrastructure:**

Map No.: South II **UTMs:** n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOD1-1	Dry-Fresh Red Oak Organic Dec. Forest	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWD7-1a	White Birch Deciduous Swamp	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-2	Jack Pine Leatherleaf Bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 528953 5076773 ± 7 m
See ELC Card

Inclusion/Complex: BOD1-2 cottongrass Bog

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOD1-2	cottongrass Bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card for UTMS and descr. plots.

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Community Description and Classification

Map #: South 11	Polygon:	
Surveyor(s):	Date: Nov 6, 2014	Time start: 1:00pm finish: 3:45pm
UTMZ:	UTMZ:	UTMN:

Polygon Description

See ELC checklist for UTMs.

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☒ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☒ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☒ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☒ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Jack Pine, > Bet PAPY
2	2	3	Jack Pine,
3	4	3	White Pine = Jack Pine
4	5-6	4	leatherleaf > black Huckleberry > Wintergreen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	R	N	N
BA:	Deadfall / Logs:	O	R	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:
Vegetation Type:	Jack Pine-leatherleaf treed Bog	Code: BOT2-2
Inclusion:	cottongrass open Bog	Code: BOO1-2
Complex:		Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

ELC
Community Description and Classification

Map #: South 11	Polygon:		
Surveyor(s):	Date: Nov 6, 2014	Time start: 9:30	finish:
UTMZ: 17	UTMZ: 529084	UTMN: 5076622 ± 6m	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☒ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☒ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☒ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☒ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☒ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4-3	1	White Pine > Jack Pine
2	5	0	—
3	6	4	Cottongrass > leatherleaf > Carex sp.
4	7	4	Sphagnum sp

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	N	N	N
BA:	Deadfall / Logs:	R	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Cottongrass open Bog type	Code:	BOO1-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							Effective Texture (Indicate below)
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

ELC Community Description and Classification

Map #: South 11	Polygon:		
Surveyor(s): CL-DH	Date: Nov. 6, 2014	Time start:	12:00
		finish:	14:20
UTMZ:	UTMZ:	UTMN:	

Polygon Description

528808 5076950 ±5m

System	Substrate	Topographic Feature	Plant Form	Community
■ Terrestrial	■ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	■ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
■ Bedrock		☐ Cliff	■ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
■ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
■ Treed		☐ Bluff		■ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	QUERUBR > BETPAPY > PORTREM
2	3	3	QUERUBR > ACERUBR
3	4	2	ACERUBR
4	5-6	4	BRACKEN FERN > BRGRASS > BONCHBERRY

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:							
		A	<10	O	10-24	R	25-50	N	>50
BA:	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-Fresh Red Oak Organic Deciduous Forest	Code:	FOD1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: South 11	Polygon:	
Surveyor(s): OM, SK	Date: Nov 5, 2014	Time start: / finish:
UTMZ:	UTMZ: 528828	UTMN: 5076904

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☒ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☒ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☒ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☒ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☒ Shrub ☒ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	BETPAPY > ACERUBR
2	3	3	BETPAPY = ACERUBR > AINCA
3	4	4	AINCA > WINTERBERRY
4	5	2	Bluejoint grass > Sheep Laurel? Wintergreen

Flat-topped Aster

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m

CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	White Birch Deciduous Organic swamp	Code:	SwD7a
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:
a stream is running through this community

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					
		Percent					Drainage
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	2	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	3	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
	4	Depth from zero		% CF	% CF	% CF	% CF
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #: South 11	Polygon:	
Surveyor(s):	Date: Nov 5, 2019	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description UTMs see ELC checklist Form.

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☑ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☑ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	3	Tamarack
2	4	3	Tamarack > Speckled Alder
3	5-6	4	Carex atriculata > Leatherleaf
4	7	4	Moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:								
		A	<10	K	10-24	F	25-50	M	>50
BA:	Standing Snags:	O	<10	N	10-24	N	25-50	N	>50
	Deadfall / Logs:	R	<10	N	10-24	N	25-50	M	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Tamarack Organic Coniferous Swamp	Code:	SWC4-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (indicate below)
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		%/Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #: South 11	Polygon:		
Surveyor(s): CH, SK	Date: Nov 5, 2014	Time start: 1100	finish:
UTMZ:	UTMZ: 529057	UTMN: 5077113	±6 m

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☒ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Aivar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	ACER RUBR > BET PAPY > POP TREM
2	4	3	ACER RUBR > WINTERBERRY
3	5	3	ACER RUBR
4	6	4	BRACKEN FERN > SHEEP LAUREL > WINTERGREEN > GRASS SP.

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	N	N
BA:	Deadfall / Logs:	O	R	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Red Maple organic Deciduous Swamp	Code:	SWD6-1
Inclusion:	SWT3-1 (Alder + Winterberry thicket)	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification	Map #: South 11		Polygon:	
	Surveyor(s):	Date: Nov 6, 2019	Time start: finish:	
	UTMZ:	UTMZ:	UTMN:	

Polygon Description

528532 5076593 ±5 m

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic **Site** ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☒ Bedrock **History** ☒ Natural ☐ Cultural **Cover** ☐ Open ☒ Shrub ☐ Treed	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☒ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☒ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☒ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☒ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	POPTREM > BETPAPY
2	2-4	4	AININCA > ACERUBR
3	5-6	4	Bluejoint grass = Narrow leaved sedge sp. > Carex utrl
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	O	10-24	N	25-50	N	>50
	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	organic	Code:	
Vegetation Type:	Specled Alder thicket swamp	Code:	SWT3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #									Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...	Mottles									
	Gley									Effective Texture (indicate below)
	Water Table									
	Carbonates									
	Bedrock									
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #:	Polygon:		
Surveyor(s):	Date:	Time	*start:*
			finish:
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		**Code:**	
Vegetation Type:		**Code:**	
Inclusion:		**Code:**	
Complex:		**Code:**	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification	Map #: South 11		Polygon:	
	Surveyor(a): OH & CK	Date: Nov 5, 2014	Time start: 1:00 pm finish: 3:45 pm	
	UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☒ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☒ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☒ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☒ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2			
3			leatherleaf
4	6	4	narrow leaved carex > Broadleaf carex > Blue joint > Tall Mana grass

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Sedge Bedrock Shallow Marsh	Code:	MASla
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Commenta

Notes:

Tree Telly by Spacies

Prism Factor	2

Species	Telly 1	Tally 2	Telly 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Onterio and ELC Soils Description

		Pit/Augsr #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 5, 2014	**Map No.:**	South 11
Field Staff:	OH, CK	**Infrastructure:**	Access Road, T&S
Start Time:	1:00	**End Time:**	3:45
Weather:	5°C, Overcast, 100%, wind B.S. ~3		

③ OAO
528667 5076853 ± 6m
water lily pads present, >1m deep approx
→ MAS located @ South end
- Narrow leaved sedge, leather leaf, Broad leaved sedge, blue joint Tall Manna grass,

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y	① ②	③	Water/wetland habitat: ① SWD7Ha, standing water in swamp ≈ 20 cm deep ~~Soil/peat~~ ② 528926 5077053 standing water in SWC4-2 throughout
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:	Y			528808 5076950 ± 5m, several Red Oaks in FOD1-1
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y			528828 5076904 ± 5m ≈ 25 dbh tree w/ cavities,
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		528926 5077053	throughout SWC4-2
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y			RBT3-2, multiple locations suitable throughout community
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

④ standing water in SWT3-1 and MAS3-4, just south of intense access Road Park,

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Pileated Woodpecker cavity tree 528534 5076776 ±5-6m
Ravens
moose
deer } scat
bear

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

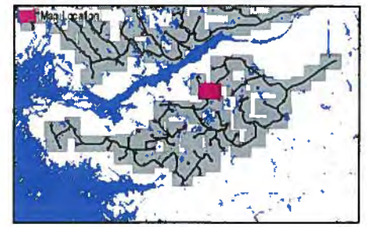
Map ID: HNV South 11

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** 06 NOV 2014 **Start Time:** 1300 **End Time:** 1530

Field Staff: CKK + DH **Infrastructure:** access road + TSS + TP

Map No.: South 12 **UTMs:** n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	■	☑	Graminoid	6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT1-2	Cottongrass Fen Bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card for MAS2-1 (?) 528460 5076967 ± 10m

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	■	☐	Graminoid	5-6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
■ MAS3-4	Broad-leaved sedge organic marsh	☐	■	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	■	Coniferous Tree	2	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Carex stricta, sheep laurel + Jack Pine, Picea mariana 528344 5077043 ± 12 m

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	■	☐	Graminoid	5	4
■ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	■	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		■	☐	Tall Shrub	4	4
☐		☐	☐	Dead Tree		
☐		☐	■	Deciduous Tree	3	2
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Card for Map 11 for SWT3-1 Alder thicket, some Paper Birch and Trembling Aspen, Bluejoint, broadleaved sedge

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	■	☐	Graminoid	5-6	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
■ MAS3-4	Broad leaved organic shallow marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	■	Coniferous Tree	3	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Carex stricta, bluejoint grass (largest proportion) Bulrush and some forbs 528249 5077344 ± 7 m

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ CLWI	White Pine Cultural Woodland	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	1	2/3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
less than 60% cover of trees Natural community	

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion SE Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Chickadee
Moose scat several through map
Roughed Grouse
Bear Scat several throughout map
Grey Squirrel
Ravens

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

→ avoid potential gestation rattlesnake habitat at TSS.

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 6, 2014	**Map No.:**	Map South 12
Field Staff:	MH CK	**Infrastructure:**	Access road, T55, T56
Start Time:	1:00	**End Time:**	3:40
Weather:	5°C, Overcast,		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOD, FEO)				
Standing water:	✓		Refer to Map for OAO near T55	Water/wetland habitat: lake created by beaver dam, @ SE corner of T55, there is a potential for Blandings turtle habitat ~~Soil/peat:~~ MAS3-4 528299 5077341 ±7m
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓	near large lake created by beaver dam, but there are no large shoreline, just bedrock and does not provide suitable habitat for large bird colonies.	
Rocky island or peninsula:		✓	surrounding lake	
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		528277 5076296 ±5m	several SACR Pine cavity trees in RBT2-3 w/ 60 m of T55
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:	Y		528318 5077279 ±5m	RBT2-2, fissured rock, vegetation cover near T55
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT3-2	several suitable habitats present throughout RBT3-2
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:	-	N		

HENVEY INLET FIELD MAPS

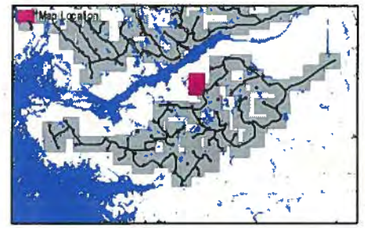
Map ID: HNV South 12

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

→ CK + OH delineated

→ RBT3-2: leather leg bog inclusions and bracken fern patches throughout

10/20/2014

0 25 50 100
Meters

1:2,500

HENVEY INLET FIELD MAPS

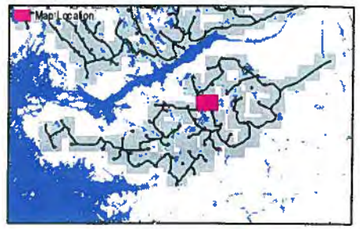
Map ID: HNV South 13

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** Nov 6, 2014 **Start Time:** 9:30 **End Time:** 12:00

Field Staff: T.H., C.K. **Infrastructure:** access road, T122

Map No.: South 1/1 #3 **UTMs:** n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	2	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-5	Jack Pine, White Pine Leatherleaf Treed Bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	3	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See Plot Photo

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☐	Coniferous Tree	2-1	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See map for community delineation

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** _____ **Start Time:** _____ **End Time:** _____

Field Staff: _____ **Infrastructure:** _____

Map No.: _____ **UTMs:** _____

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
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☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

13

ELC Community Description and Classification	Map #: South	Polygon:	
	Surveyor(s): CR + OH	Date: 06 Nov 2014	Time start: finish:
	UTMZ: 17	UTMZ: 5290 95	UTMN: 5076508

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☑ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☑ Deciduous ☑ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☑ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	1	Jack Pine = White Pine
2	4	2	Jack Pine = wh Pine > Tamarack > bl. spruce
3	5	1	Jack Pine > bl. spruce
4	6-9	4	leather leaf > cottongrass > sheep laurel

HT Codes: 7 <0.2m 4 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	N	10-24	N	25-50	N	>50
	Standing Snags:	R	<10	N	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	N	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Treed Jack pine white pine Treed leather leaf bog	Code:	BOT 2-3
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 4	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification	Map #:		Polygon:	
	Surveyor(s):	Date:	Time start:	
			finish:	
	UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominence (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snege:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Telly 3	Tally 4	Total	Rel. Avg.
Total						100
Basel Area (BA)						
Dead						

Soile Dntarlo and ELC Soils Description

									Summary
Site Metrics		Plt/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to ...	Mottles								
	Gley								Effective Texture (Indicate below)
	Water Table								
	Carbonates								
	Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 6 2014	**Map No.:**	South 13
Field Staff:	OH, CK	**Infrastructure:**	T122
Start Time:	10:00	**End Time:**	12:00
Weather:	Rain, 4°C, [illegible] – [illegible]		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		✓		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:				No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:				
Rocky island or peninsula:				
Mudflat present:				
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:				Indicator:
Evidence of mineral lick:				Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:				
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:				
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:	Y		529176 [illegible]	[illegible] 60 m of T122 [illegible]
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		✓			
Cliffs and Talus Slopes *Tree cover but less than 60%		✓			
Old Growth Forest		✓			
Rare Forest Type – Jack Pine		✓			
Rare Forest Type – White Oak		✓			
Rare Forest Type – White Oak		✓			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Note: T54 was moved to a new location, see field map for approximate location and 60m buffer.

ELC Form

Project: Henvey Inlet
Field Staff: Olga Hropach, Julie Ellis
Map No.: South 14

Date: Nov 10, 2014 Start Time: 11:22 End Time: ~~12:07~~
Infrastructure: T53, T54
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cree Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	2
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	5	3
☐		☐	☑	Tall Shrub	4	1
☐		☐	☐	Dead Tree		
☐		☑	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Black Huckleberry, tufted hairgrass, Low Blueberry, Bracken Fern
Inclusion/Complex: small pockets of Bracken Fern patches
17T 528078 5076254

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☑ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐ Red Maple saplings		☑	☐	Tall Shrub	4	4
☐ heavily grazed		☐	☐	Dead Tree		
☐ by Moose		☑	☐	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White birch, Giant toothed Aspen, Red Maple, Trembling Aspen, Winterberry, Bracken Fern, Blueberry, Wintergreen
Inclusion/Complex
17T 528106 5076323 ± 1m

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☑	☐	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ BOO1-2 cotton grass bog		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	3	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Cotton grass, Sphagnum, sheep laurel, Labrador tea, wiregrass
Inclusion/Complex
528053 5076180

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOC3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: same as RBT3-2 above, @ T54 site
Inclusion/Complex

Codes
HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Field Staff:

Map No.:

Date:

Start Time:

End Time:

Infrastructure:

UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	1
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☐	Deciduous Tree	3	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Black Ash, Bluejoint, Carex sp., Red Maple, Red Osier Dogwood

Inclusion/Complex:

17T 528352 5075735 ±0 m

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☑ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐	Large red Maple	☑	☐	Tall Shrub	4	3
☐	understory that is	☐	☐	Dead Tree		
☐	heavily grazed by moose	☑	☐	Deciduous Tree	3-4	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Sandy composition
FORB EM, ACTAEA RUB PAPP, bracken fern, etc.

Inclusion/Complex:

17T 528370 5075762

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	5	3
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	1
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☑	☐	Low Shrub		
☐		☐	☐	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Speckled Alder, Bluejoint, Carex sp.
ground is hummocky.

Inclusion/Complex:

17T 528341 5075698 ±0 m

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes — HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – [illegible]; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 10, 2014	**Map No.:**	South 14
Field Staff:	OH, JE	**Infrastructure:**	T53
Start Time:	11:22	**End Time:**	1:00
Weather:	2°C, Overcast 100% Cloud Cover, BS=2, No snow yet		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	✓		528106 5076323	a few cavity trees in T-053-1
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:	✓	1FT	5075767N528328E	Right underneath T54 (new location), Fissured rock, veg cover
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT3-2	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Moose Scat: # 526072 5076230 ± 5m

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

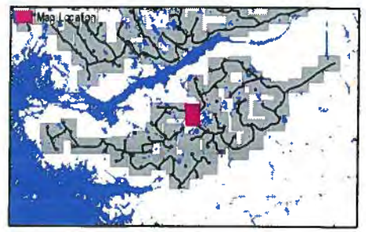
Map ID: HNV South 14

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:
NOV 10, 2014
O.H., J.E.

new turbine
10ct ~60m
buffer

10/20/2014

0 25 50 100
Meters

1:2,500

T49

ELC Community Description and Classification

Map #: South 15	Polygon:		
Surveyor(s): OH/NE	Date: Nov 10/2004	Time start: 1:55 pm	finish: 2:30 pm
UTMZ: 17T	UTMZ: 528823	UTMN: 5077109	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☑ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☑ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☑ Bryophyte	☑ Fen
☑ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	4	1	Jack Pine
2	5	3	Cottongrass
3	6	3	Leatherleaf
4	7	4	Sphagnum sp. > Cranberry

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Leatherleaf-cottongrass shrub FEN	Code:	FESIa *
Inclusion:		Code:	FESIa
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
No prism available						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							
		Percent							Drainage
		Slope Length							
Depth to...		Mottles							
		Gley							
		Water Table							Effective Texture (Indicate below)
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

ELC Community Description and Classification

Map #: Map South 15 | Polygon:
Surveyor(s): | Date: | Time start: / finish:
UTMZ: 17T | UTME: 525891 | UTMN: 5075382

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☑ Forb ☐ Lichen ☑ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☑ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation

Site: ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock
History: ☑ Natural ☐ Cultural
Cover: ☑ Open ☐ Shrub ☐ Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	5	4	Carex atri. > Grasses
2	6	3	Leatherleaf > Sheep Laurel
3	7	4	Sphagnum sp > Cranberry
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

No trees.

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Broad leaved sedge graminoid open Bog	Code:	BOOZ *
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

* New ELC Code.

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
No TREES						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							
		Percent							Drainage
		Slope Length							
Depth to...		Mottles							
		Gley							
		Water Table							Effective Texture (indicate below)
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

ELC Form

Project: Henvey Inlet
Field Staff: O.H. J.E.
Map No.: South 15

Date: Nov 10, 2014
Start Time: 1:11
End Time: 2:30
Infrastructure: T49
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	3	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	3	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	3	2
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	3	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	3	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Same RBT3-2 composition as Map South 14

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FES1-1a	leatherleaf-tamarack graminoid shrub fen	☑	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: SEE ELC CARD

Inclusion/Complex:

HT 528823 5075409 ±0 m

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOO1a	broadleaved sedge open bog	☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

HT 528823 5075382

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes: HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion SE Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 10, 2014	**Map No.:**	South 13
Field Staff:	DH, JE	**Infrastructure:**	T49 80 14
Start Time:	~~1:38~~ 1:55	**End Time:**	2:30
Weather:	0°C, 100% overcast, snowing		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		✓		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shoreline adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:	X	✓	BBT3-2	wide spread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject
	OSL Julie E		

Incidental Wildlife Observations:

Bear Scat 17T 528878 5075367

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

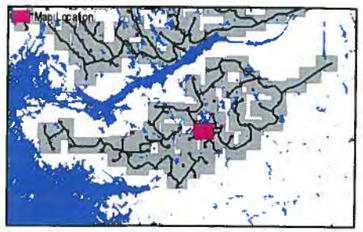
Map ID: HNV South 15

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet Date: 11/11/14 Start Time: 11:30 End Time: 1:20

Field Staff: OH/JE Infrastructure: T47

Map No.: South 18 UTMs:

529330/5024596 T0

529326/5074074552 T0

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOT2-2*	Jackpine leatherleaf tree / Bog	☐	☑	Low Shrub	6	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	12	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jackpine) Tamarack Leatherleaf) Sheep laurel Sphagnum

Inclusion/Complex:

* Snow covered

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jackpine, Tufted hair grass, Lichen

Inclusion/Complex:

529324/5074461 T0

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack-Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWD3-1	Red maple mineral swamp	☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	4	3
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	3
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Red maple) BET PAP ALNUTIC Grass, Bracken fern

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☑	Tall Shrub		
☐		☐	☐	Dead Tree	3	4
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder Carex, Sphagnum

Inclusion/Complex:

528760/5074750 T0

Codes: HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: OH, JE Infrastructure:

Map No.: UTMs: -

5287753/5074685

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	6	2
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	2
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWD5-1	Red maple organic swamp	☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	4	1
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	3
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 10cm to bedrock; Red maple > Trembling Aspen; Alder Organic; grasses = ferns

Inclusion/Complex:

5287753/5074685

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	6	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☑ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	4	2
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	3
☐		☐	☑	Coniferous Tree	2	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Trembling Aspen > Jack pine; Red Maple (1m ht); Bracken fern > Bunchberry

Inclusion/Complex:

5288737/5074685

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☑ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Same as previous FOD3-1

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	11/11/14	Map No.:	S.18
Field Staff:		Infrastructure:	T47
Start Time:	11:30	End Time:	~~12:30~~ 1:26
Weather:	-1, 100% 23BS, snow on ground		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:	Y		529332/5074472 FO 528818/ ~~5074470~~ FO	Rock barren sloping to SWD - snow covered ∴ suspected gest. suspected gest. site, covered in snow
Skink Habitat/Nesting Area	RB			
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT3-2	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

mammal Trail: 529331/5074490 ±0
moose scat: ~~[illegible]~~ 528753/5074685

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

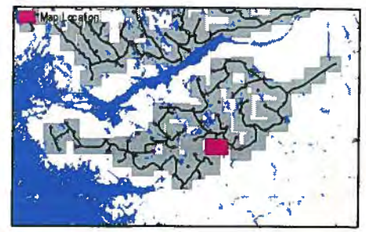
Map ID: HNV South 18

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (150m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

OH, JE

Nov 11, 2014

→ snow on ground *

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet
Field Staff: CK + JS
Map No.: 28 South

Date: 10 Nov 2014
Start Time: 1515
End Time: 1535
Infrastructure: TL1
UTMs: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 | 527207 | 5076051
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☑ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	5	4
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	3	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 | 527300 | 5076122
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
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☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	DND 2014	**Map No.:**	28 Sout
Field Staff:	CK + TS	**Infrastructure:**	Turbine 3 41
Start Time:	1515	**End Time:**	1530
Weather:	Snow -4°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		✓		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (Including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

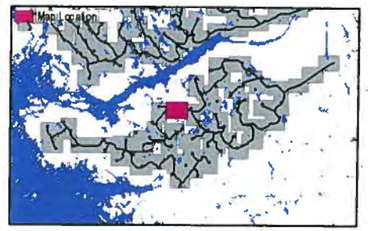
Map ID: HNV South 28

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	11 Nov 2014	**Map No.:**	29 South
Field Staff:	CK + TS	**Infrastructure:**	T4D
Start Time:	1400	**End Time:**	1430
Weather:	Overcast 4°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: Within OA	Y		526776/5076326	Water/wetland habitat: SWM – Potential moose feeding / Amphibian breeding habitat Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff; Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Muoflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:				Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC, SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		~~✓~~			
Cliffs and Talus Slopes *Tree cover but less than 60%		~~✓~~			
Old Growth Forest		~~✓~~			
Rare Forest Type – Jack Pine		~~✓~~			
Rare Forest Type – White Oak		~~✓~~			
Rare Forest Type – White Oak		~~✓~~			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Ruffed grouse

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Form

Project: Henvey Inlet Date: 11/6/2024 Start Time: 1400 End Time: 1430

Field Staff: CK + TS Infrastructure: T40

Map No.: 29 South UTMs: /

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWM2-1	Shrub Rich – Poor Mineral Mixed Swamp	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☑	☐	Mixed Tree	2	4

Dominant/Notable Species: 17 / 526776 / 5076326

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☑ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	4	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / 526805 / 5076234

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☑ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☑ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	3-4
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	3-4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	6	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 526809 / 5076303

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☐	Tall Shrub	5	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / 526808 / 5076247

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

no auger available.

ELC Community Description and Classification

Map #: 29South	Polygon: T40		
Surveyor(s): CK + TS	Date: ~~19~~ 11 Nov 14	Time start: 1400	finish: 1430
UTMZ: 17	UTMZ: 526776	UTMN: 5076326	

Polygon Deacription

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☒ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☒ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Deacription

Layer	HT	CVR	Species In Order of Decreasing Deminance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	B	white Pine
2	2	4	white Pine => Bet Pap > Acer Rub >> ...
3	4	3	white birch >> wh. Pine = Bet Species
4	5-7	4	Sprag > Thuja occidentalis = Ac gon Rhead = Larch

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	R	R	R
BA:	Deadfall / Logs:	N	R	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	White Pine-Birch Mineral Mixed	Code:	
Vegetation Type:	SWMB	Code:	SWM3a
Inclusion:	wh Pine-Birch Mineral mixed swamp	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics		Pit/Auger #						Summary	
	UTM	Zone						Moisture Regime	
		Easting							
		Northing							
	Slope	Position						Drainage	
		Aspect							
		Percent							
		Slope Length							
Depth to...	Mottles							Effective Texture (indicate below)	
	Gley								
	Water Table								
	Carbonates								
	Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC
Community Description and Classification

Map #:	Polygon:	
Survsyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
❑Terrestrial ❑Wetland ❑Aquatic	❑Organic ❑Mineral Soil ❑Parent Min. ❑Acidic Bedrk ❑Basic Bedrk ❑Carb. Bedrk	❑Lacustrine ❑Riverine ❑Bottomland ❑Terrace ❑Valley Slope ❑Tableland ❑Roll. Upland ❑Cliff ❑Talus ❑Crevice/Cave ❑Alvar ❑Rockland ❑Beach / Bar ❑Sand Dune ❑Bluff	❑Plankton ❑Submerged ❑Floating-LVD. ❑Graminoid ❑Forb ❑Lichen ❑Bryophyte ❑Deciduous ❑Coniferous ❑Mixed	❑Lake ❑Pond ❑River ❑Stream ❑Marsh ❑Swamp ❑Fen ❑Bog ❑Barren ❑Meadow ❑Prairie ❑Thicket ❑Savannah ❑Woodland ❑Forest ❑Plantation

Site: ❑Open Water ❑Shallow Water ❑Surficial Dep. ❑Bedrock

History: ❑Natural ❑Cultural

Cover: ❑Open ❑Shrub ❑Treed

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ❑ Pioneer ❑ Young ❑ Mid-Age ❑ Mature ❑ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Commenta

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

HENVEY INLET FIELD MAPS

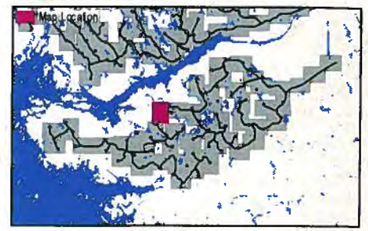
Map ID: HNV South 29

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet
Field Staff: CK + JS
Map No.: 30 South
Date: 10 Nov 2014
Start Time: 1430
End Time:
Infrastructure: T38
UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	5	6
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	#?	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ Bog 1-3	Sphagnum Open Bog	☐	☑	Low Shrub	3	2
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / E526624 / N5075050
Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☑ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	7	6
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	7	6
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree	25	6
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17 / 526531 / 5075630
Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

* See other side

AECOM

ELC Form

Project: Henvey Inlet **Date:** Nov 10/2014 **Start Time:** 1430 **End Time:**

Field Staff: CK + TS **Infrastructure:**

Map No.: 30 South T38 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: D/E526437/N5075629

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

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☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Code HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	10 NOV 2014	**Map No.:**	T38
Field Staff:	CK & TS	**Infrastructure:**	
Start Time:	1440	**End Time:**	1500
Weather:	Snow, -2° C, lt wind		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	✓	✓		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

~~IGNORE~~ IGNORE.



Access Roads

Construction Disturbance Area (50m)

Turbine Pad (160m)

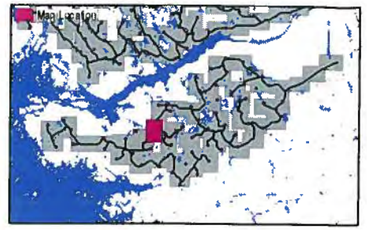
Environmental Layers

Watercourse

Wetland - Evaluated PSW

Wetland - Evaluated Other

Ecological Land Classification



FIELD NOTES:

Bog 1-2

South 30

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet
Date: 10 Nov 2014
Start Time: 1130
End Time: 1230
Field Staff: JS + CKL
Infrastructure: Turbines 107
Map No.: 31 South
UTMs: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
BOT2 FT	leatherleaf	☐	☑	Low Shrub	4	2
☐	shrub bog	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
17 E527186 N5075113	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☑ RBT 3a	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
17 527118 5075118 • Jack pine, white pine, Juniper	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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Dominant/Notable Species	Inclusion/Complex

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CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 10/2014	**Map No.:**	South 31 T107
Field Staff:	TS, CH	**Infrastructure:**	Turbine
Start Time:	12:42 Pm	**End Time:**	1350
Weather:	overcast, 5°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		✓		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:		✓		
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community:				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Bear scat, moose scat, deer scat, game trail
Ruffed grouse

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

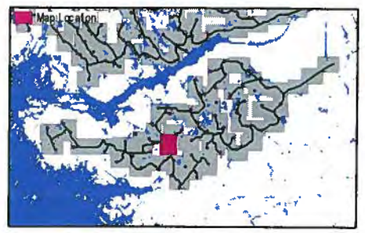
Map ID: HNV South 31

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluatad PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	11 Nov 2014	**Map No.:**	~~[illegible]~~ 32 South
Field Staff:	~~[illegible]~~ CK + TS	**Infrastructure:**	Turbine · ~~[illegible]~~ 39
Start Time:	1150	**End Time:**	1230
Weather:	Snow/Rain, 0°C, 100% CC,		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (EET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		527823 / 5075396	Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		moose scat 217 / E527698 / N5075483

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Rare Vegetation Community					
Shallow Atlantic Coastal Marsh		N			
Cliffs and Talus Slopes *Tree cover but less than 60%		N			
Old Growth Forest		N			
Rare Forest Type – Jack Pine		N			
Rare Forest Type – White Oak		N			
Rare Forest Type – White Oak		N			

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Form

Project: Henvey Inlet Date: 11 Nov 2014 Start Time: 1145 End Time: 1245

Field Staff: [redacted] Infrastructure: Turbine 39

Map No.: [redacted] 32SOUTH UTMs: See below

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen	3	3
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	3	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☑	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17/E929748 / N 5075446

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☑ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid	5	4
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐ MAM 2-1		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☑ SWT3-1	Alder Organic Thicket Swamp	☑	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte	4	4
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☑	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☑	☐	Tall Shrub	3.5	3.3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 17/529698 / 5075483

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Cod… **HT:** 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

no; auger available.

ELC Community Description and Classification	Map #: 32 South	Polygon: Turbine 39	
	Surveyor(s): CK + TS	Date: 11 Nov 2014	Time start: 1150 finish: 1230
	UTMZ: 17	UTMZ: 527 823	UTMN: 5075396

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ■ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ■ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ■ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ■ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ■ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ■ Natural ☐ Cultural				
Cover ■ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	5	4	Calex sp >>> scirpus sp
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☑ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Broad-leaved Sedge	Code:	MAM 2-6
Inclusion:	Mineral meadow marsh	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Dreinage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description								
1	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
2	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock

History
☐Natural ☐Cultural

Cover
☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0%- 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snags:	<10	10-24	25-50	>50
	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

HENVEY INLET FIELD MAPS

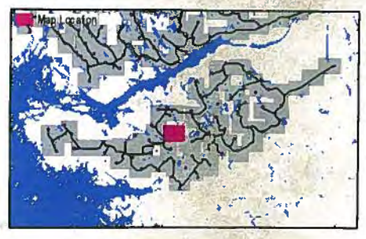
Map ID: HNV South 32

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

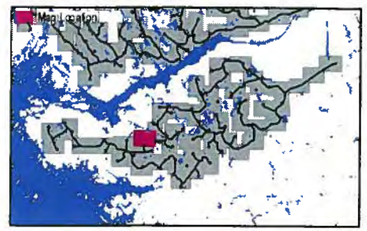
Map ID: HNV South 33

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

T37

ELC Community Description and Classification	Map #: Henvey South 33		Polygon:	
	Surveyor(s): J. Ceman, J. Cashubee	Date: 10 NOV 2014	Time start: 13:00 finish: 14:10	
	UTMZ: 17T	UTMZ: 0526409	UTMN: 5074975	

WP778 17T 0526409, 5074975

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☒ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☒ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☒ Forest ☐ Plantation
Site ☐ Open Water ☒ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☒ Open ☐ Shrub ☐ Treed				

Stand Description 1-3

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	1	3	Populus tremuloides
2	2	2	Pinus strobus = Picea glauca > Betula pap
3	4	3-4	Alnus glutinosa
4	4	4	Bracken Fern

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% – 10% 2 10 – 25% 3 25 – 60% 4 > 60%

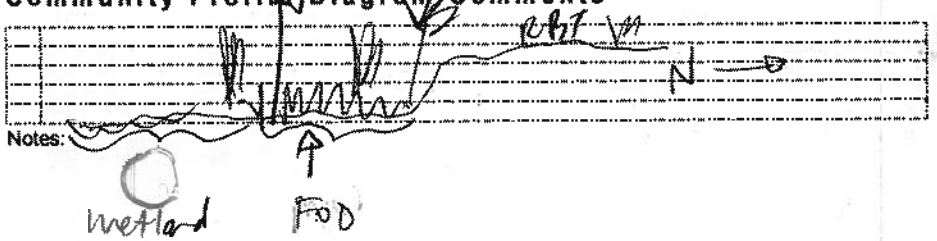
Stand Composition:	Size Class Analysis:	R	<10	O	10-24	O	25-50	R	>50
	Standing Snags:	N	<10	O	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	N	<10	N	10-24	R	25-50	R	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:	Fresh [illegible]	Code:	[illegible]
Vegetation Type:	Birch-Poplar Organic Swamp Type	Code:	SWD7b
Inclusion:	n/a	Code:	
Complex:	n/a	Code:	

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
T						
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

											Summary
Site Metrics		Pit/Auger #	1								
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position	toe slope								
		Aspect	South								Drainage
		Percent	2%								
		Slope Length	10m.								
Depth to...		Mottles	no								Effective Texture (indicate below)
		Gley	no								
		Water Table	at surface								
		Carbonates									
		Bedrock									
Soil Horizon Description	1	Depth from zero	5cm	% CF 0.		% CF		% CF		% CF	
		Texture	0m (not peat)								
	2	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock									
		Moisture Regime									
		Drainage									

ELC Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	☐ <10	☐ 10-24	☐ 25-50	☐ >50
	Standing Snags:	☐ <10	☐ 10-24	☐ 25-50	☐ >50
BA:	Deadfall / Logs:	☐ <10	☐ 10-24	☐ 25-50	☐ >50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...		Mottles							
		Gley							Effective Texture (indicate below)
		Water Table							
		Carbonates							
		Bedrock							
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
		Moisture Regime							
		Drainage							

ELC Form

Project: Henvey Inlet
Field Staff: Jillian deman, Jay Cashubura
Map No.: Henvey South 33

Date: 10 Nov 2014 **Start Time:** 13:00 **End Time:** 14:10
Infrastructure: wind Turbine 37
UTMs: 17T 0526448, 5075012

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	3	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	3	4
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	3	
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☒	Dead Shrub	6	1
☐		☐	☒	Low Shrub	6	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder Thicket inclusion
Inclusion/Complex: SWT3-1

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	2	1
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	3	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☑	☒	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☒	☒	Graminoid	6	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ MAS3-1	Sedge (Broad) Marsh	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:
Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	4	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOD1	White Pine	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine / Bracken Fern
Inclusion/Complex:

Codes — **HT:** 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: 10 Nov 2014 Start Time: 15:00 End Time: 15:30

Field Staff: S. Deman, J. Cashubec Infrastructure: Wind Turbine T115

Map No.: H. Henvey South 33 UTMs: 17T 0525913, 5075228 Waypoint 24

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb	6	1
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	6	3
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, White Pine, Common Juniper

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	5	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☒ FOC | C	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Paper Birch, Jack Pine, Bracken Fern

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☒	☒	Narrow Leaved Emergent	5	4
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3	Sedge Marsh w/ Alder at edge	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Broad Sedge, Sphagnum

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: Start Time: End Time:

Field Staff: Infrastructure:

Map No.: UTMs:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
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☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	10 NOV 2014	**Map No.:**	Henvey South 33
Field Staff:	S. Geman, S. Cashubeau	**Infrastructure:**	Wind Turbine 37
Start Time:	13:00	**End Time:**	14:10
Weather:	3°C overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		17T 0526380, 5075041 WPT 20	Water/wetland habitat: Y, Amphibian breeding habitat Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		17T 0526417, 5075041 WPT 21	Grove of Large Pine trees w Several Snags near wetland, Cavities Present in dead trees.
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Across entire Site	Fissured Rock throughout site, Sphagnum moss wetland present
Massasauga gestation habitat:	Y		17T 0526424, 5074996 (WPT 19)	
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		Across Entire Site	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine	✓		17T 0526498, 5075012	Rock barren w. Lichen + Moss, Jack pine
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject
	3 photos of wetland community		

Incidental Wildlife Observations:

Moose Scat (<2 weeks old) WPT 17 0526417, 5075007
Moose Scat (Fresh). WPT 22, 0526398, 5075062
Crow observed

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	10 Nov 2014	**Map No.:**	Henvey South 33
Field Staff:	J. deman, J. Cashman	**Infrastructure:**	Wind Turbine T115
Start Time:	15:00	**End Time:**	15:30
Weather:	1°C Overcast, Snowing (hard)		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		see field map	Water/wetland habitat: Need GPS Coords from Rayna Soil/peat: - see field map
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Entire site Comprised	Fissured Rocks throughout site, Sphagnum Moss + wetlands observed. 0525913 5075228 waypoint 24
Massasauga gestation habitat:	Y		See field Map	526437 5075041 - see field map
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		Entire Site	Across entire site
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N	[illegible]	*White Pine
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject – from Jill deMan's camera	Photo #	Location or Subject
1002	RBT		
1003	fissured rock		
1004	fissured rock		

Incidental Wildlife Observations:

- grouse flushed from rock barren community

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

- turbine located ~~[illegible]~~ with 5m of fissured rock, which may contain Mass. rattlesnake habitat

Other Comments/Observations:

- no additional comments

ELC Form

Project: Henvey Inlet Date: 11 Nov 2014 Start Time: 12:30 End Time: 13:30

Field Staff: J. Henderson, Jay Ashbury Infrastructure: Wind Turbine 46 (new)

Map No.: HNV South 34 UTMs: 17T 0526457, 5074519

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid	6	1
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	3
☐ FOC	Coniferous Forest	☐	☒	Bryophyte	7	2
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	6	3
☐		☐	☐	Tall Shrub		
☐		☐	☒	Dead Tree	6	1
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine – Tree; Common Juniper – Shrub

Inclusion/Complex: BOT1

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☒	Floating LVD	4	1
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☒	Robust Emergent	4	1
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☒	☒	Narrow Leaved Emergent	5	4
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ MAS3-4	Seago Marsh	☐	☒	Low Shrub	6	1
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Open water + Beaver Dam Present

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb	6	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☒	Lichen	7	2
☒ FOC 1b	Coniferous Forest	☐	☒	Bryophyte	7	3
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☒	Low Shrub	6	2
☐		☐	☐	Tall Shrub		
☐		☐	☒	Dead Tree		
☐		☐	☒	Deciduous Tree	3	2
☐		☒	☒	Coniferous Tree	2	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Birch, Bracken fern, Bunchberry, Wintergreen, Fall Orchid – rare and abundant

Inclusion/Complex: n/a

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
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☐		☐	☐	Low Shrub		
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

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CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet Date: _____ Start Time: _____ End Time: _____

Field Staff: _____ Infrastructure: _____

Map No.: _____ UTMs: _____

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
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☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	11 NOV 2014	**Map No.:**	HNV Southwest 34
Field Staff:	J. deman, J. Cashuber	**Infrastructure:**	Wind Turbine 46
Start Time:	12:30	**End Time:**	13:30
Weather:	1°C overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		17T 0526574, 5074493 WET 36	Water/wetland habitat: Yes, Sedge marsh (MAS) Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:	Y		17T 0526574, 5074493 WET 36	
Rocky island or peninsula:	Y		" "	
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:				
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		Across entire site	
Massasauga gestation habitat:		N		Prime gestation habitat ~~not observed~~ in direct site vicinity but close to site - advise to keep turbine site where it is.
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		Across entire site	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

2 Grey Jays - observed @ site
Large Beaver House just outside site in wetland to the west

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

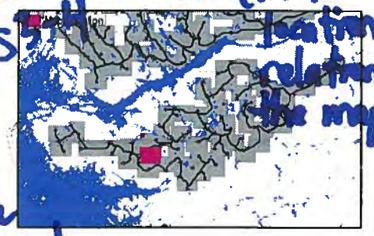
Map ID: HNV South 34

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

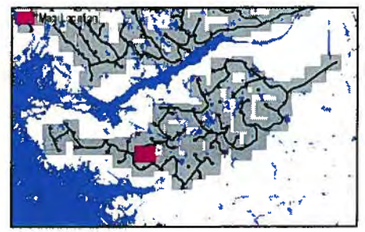
Map ID: HNV South 34

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Nov 4/2014	**Map No.:**	Map 34South
Field Staff:	JK, JS	**Infrastructure:**	T84
Start Time:	2:00	**End Time:**	4:00 pm
Weather:	RAIN, low wind BSI-2, 8°C, 100% CC		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		525830/5074395	Water/wetland habitat: <40cm pools, SWD(Birch) Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		SWD4-3	
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		525815, 5074295	BOT2-1 = hummock w rocks & sphagnum moss
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y		RBT3-2	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		2		
Cliffs and Talus Slopes *Tree cover but less than 60%		2222		
Old Growth Forest		2222		
Rare Forest Type – Jack Pine		2222		
Rare Forest Type – White Oak		2222		
Rare Forest Type – White Oak		2222		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Form

Project: Henvey Inlet **Date:** 11/04/14 **Start Time:** 2:00 **End Time:** 4:00 pm

Field Staff: JL/JE **Infrastructure:** T85

Map No.: ~~MNR~~ 234 south **UTMs:** 525815/5074295

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ ~~BOT2-1~~	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	3-4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☑	☑	Low Shrub	5-6	4
☑ BOT1e	Tamarack/leatherleaf	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree	6	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Small in size, dominated by leatherleaf, tamaracks, drain fern, potentilla, Massassaga hibernacula habitat

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☑	Graminoid	4	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
~~☐ FES1-1~~		☐	☑	Low Shrub	2	4
☐ FES1-4	Deciduous/coniferous – Rock Shrub Fen	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Sphagnum, Graminoid, leather leaf

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	4	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWD4-13	Birch pop swamp	☐	☐	Low Shrub		
☐		☐	☑	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☑	☑	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Aerial Riven pop/ash, amph. Alder Amphibious herb

Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 1 = <0.2 m; 2 = >0.2 – 0.5 m; 3 = >0.5 – 1 m; 4 = >1 – 2 m; 5 = >2 – 6 m; 6 = >6 – 25 m; 7 = >25 m

CVR: 1 = None; 2 = 0% – 10%; 3 = 10% – 25%; 4 = 25% – 60%; 5 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Nov. 4, 2014 **Start Time:** _____ **End Time:** _____

Field Staff: UK / JE **Infrastructure:** _____

Map No.: South 34 **UTMs:** _____

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOM5-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☒	☒	Mixed Tree	2	4

Dominant/Notable Species	Inclusion/Complex
Pinstro x Betpap >> Rubbank - Popgra	

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

HENVEY INLET FIELD MAPS

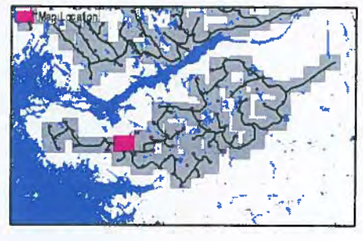
Map ID: HNV South 35

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Form

Project: Henvey Inlet **Date:** Oct 30 2014 **Start Time:** 3:30 **End Time:** 4:30

Field Staff: JK, OH **Infrastructure:** access road, ~~D5 24~~ to T36

Map No.: Map 35 South **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD6-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Tamarack, Cottongrass, dense leatherleaf, Sheep Laurel

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐	~~Sedge~~	☐	☐	Low Shrub		
☐ MAS2-4	Broad leaved sedge marsh	☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Carex intrigulata, Jack Pine, leatherleaf Tamarack

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FOD3-2	Dry Fresh White Birch Mix	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

See ELC CARD

Codes HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Oct 30, 2014 **Start Time:** 3:30 **End Time:** 4:30

Field Staff: DH JK **Infrastructure:** Access Road to T36

Map No.: 35 South **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOMC		☐	☒	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☒	Mixed Tree	2-3	260%

Dominant/Notable Species: White Spruce, Jack Pine, Tamarack, White Birch, canopy cover >60, but not within wetland

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒	FET2-1	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ BOT1F	Jack Pine Bog	☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Leatherleaf

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: **7** = <0.2 m **6** = >0.2 – 0.5 m **5** = >0.5 – 1 m **4** = >1 – 2 m **3** = >2 – 6 m **2** = >6 – 25 m **1** = >25 m

CVR: **0** = None **1** = 0% – 10% **2** = 10% – 25% **3** = 25% – 60% **4** = >60%

AECOM

J. Herbert

EA CEA & REA
Jue 9?

ELC Community Description and Classification	Map #: 535 Square 230	Polygon: SD1	
	Surveyor(s): K. Gerald, J. deMan, J. Kamiha	Date: Oct. 22, 2014	Time start: 11:00am finish: 11:30am
	UTMZ:	UTMZ: 525500	UTMN: 5074900

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☒ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.	feldspar quartz hornblend	☒ Roll. Upland	☐ Bryophyte	☐ Fen
☒ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☒ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed - >10%		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

6-8m

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Pinus banksiana
2	5	3	Juniperous comm >> Sanguinaria bac
3	7	2	Cladina stellaris = Cladina rangi > Flour schreb = lycopod
4	—	3	bare rock

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	O	25-50	N	>50
	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Acidic Treed Rock Barren	Code:	RBT 3
Vegetation Type:	Jack Pine Acidic Treed Rock Barren	Code:	RBT 3-2
Inclusion:	n/a	Code:	
Complex:	n/a	Code:	

Community Profile Diagram/Comments



Notes: 12, 18-19 cm avg. dbh of trees (Pinus banksiana)

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Pinus banksiana	10 cm	dbh				
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #	no soil pit - bare rock			Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

No soil bare rock

Turbine 36

ELC Community Description and Classification	Map #: S35		Polygon: SD2	
	Surveyor(s): J deMan J Kamste	Date: Oct. 22	Time start: 11:30 am finish: 12:00pm	
	UTMZ:	UTMZ: 525443	UTMN: 5074933	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☒ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☒ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar	☒ low shrub	☐ Prairie
Cover		☐ Rockland		☐ Thicket
☒ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

top dense

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Picea mariana > Larix laca
2	5	4	Chamaecal > Ledgro >> Kalm arg
3	5	1	Cottongrass sp
4	7	4	Sphagnum (100%)

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

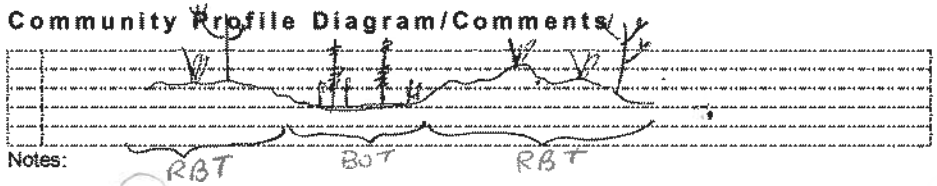
Stand Composition:	Size Class Analysis:	O	<10	A	10-24	N	25-50	N	>50
	Standing Snags:	R	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	R	<10	R	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Treed Bog Ecosite	Code:	BOT1
Vegetation Type:	Black Spruce Treed Bog Type	Code:	BOT1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Larix laca	1 cm dbh					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero	1m	% CF 0		% CF		% CF		% CF
		Texture	peat							
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC
Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:		Pioneer		Young		Mid-Age		Mature		Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Pit/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

ELC Community Description and Classification

Map #: 35 South	Polygon: FOO3-2	
Surveyor(s):	Date:	Time start: 3:30 PM finish: 4:30pm
UTMZ: 525200	UTMZ: 5074605	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	BETPAP > POPTREM > POPGRAND
2	3	2	ACERUBR
3	4	2	CORCORN = ACERUBR
4	5-6	3	BRACKEN FERN, Wintergreen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
BA:	Standing Snags:	O	A	O	N
	Deadfall / Logs:	A	A	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Dry-Fresh White Birch Deciduous Forest Type	Code:	FOD3-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

Turbine 36 Oct 22/14

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)	Yes	Jack Pine
Old Growth Forest		
Bog	Yes	Small Black Spruce – Leatherleaf – Sphag.
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
	Jack Pine Barrens		Turbine 36
	Massasauga Gest Site		

Incidental Wildlife Observations:

Gray Jay Corn Raven

Red Squirrel

Other Observations:

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☒ No ☐ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 525500/5074900 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.): Various jumbled rocks and Juniper potential Massasauga Gestation Site, adjacent to Peat Wetland.
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.): Jack Pine Barren
Note this is right on the proposed Turbine Platform.

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*) ?
UTMs:
Description of habitat and cover objects: KBT habitat

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Henvey Inlet - SWH & SAR Habitat Assessment Form

AECOM

**Based on SWHTG Ecoregion E5 Criterion Schedule

Date:	October 22/2014	Map No.:	South 35
Field Staff:	Kamstra + Delman	Location:	Turbine 36
Weather Conditions:	Clear 8°C	ELC Polygons:	RBT
Start Time:	10:45	End Time:	11:30am

****** If any of the features listed below is identified, delineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☒ No ☐ Yes (*Photograph and complete form*)
Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Water depth (m): ____ % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.): _____

Area and soil/substrate of shoreline habitat: _____

Type of cover in open water habitat: _____
Type and abundance of cover in surrounding habitat: _____
Presence of pondweeds, milfoil and/or yellow water lily: _____
Presence of peat: _____
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: _____

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Describe substrate: _____
Evidence of use by swallows or falcons (provide number of nests): _____

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☒ No ☐ Yes (*Photograph and complete form*)
Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)
Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):

Turbine 36

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
isam Fir (*Abies balsamea*)						
ommon Juniper (*Juniperus communis*)	X					
astern Red Cedar (*Juniperus virginiana*)						
amarack (*Larix laricina*)		X				
hite Spruce (*Picea glauca*)						
ack Spruce (*Picea mariana*)	X	X				
ack Pine (*Pinus banksiana*)	X	X				
ed Pine (*Pinus resinosa*)						
astern White Pine (*Pinus strobus*)	X					
cotch Pine (*Pinus sylvestris*)						
anada Yew (*Taxus canadensis*)						
astern White Cedar (*Thuja occidentalis*)						
astern Hemlock (*Tsuga canadensis*)						
Deciduous						
anitoba Maple (*Acer negundo*)						
orway Maple (*Acer platanoides*)						
ed Maple (*Acer rubrum*)						
reeman's Maple (*Acer X freemanii*)						
ugar Maple (*Acer saccharum*)						
lountain Maple (*Acer spicatum*)						
peckled Alder (*Alnus incana*)						
owny Serviceberry (*Amelanchier arborea*)						
erviceberry (*Amelanchier sanguinea*)						
ellow Birch (*Betula alleghaniensis*)						
hite Birch (*Betula papyrifera*)	X					
lue Beech (*Carpinus caroliniana*)						
limbing Bittersweet (*Celastrus scandens*)						
uttonbush (*Cephalanthus occidentalis*)						
lt.-leaved Dogwood (*Cornus alternifolia*)						
ilky Dogwood (*Cornus amomum*)						
unchberry (*Cornus canadensis*)	X					
ray dogwood (*Cornus racemosa*)						
ound-leaved Dogwood (*Cornus rugosa*)						
ed-osier Dogwood (*Cornus sericea*)						
eaked Hazel (*Corylus cornuta*)						
nglish Hawthorn (*Crataegus monogyna*)						
arge-fruited Thorn (*Crataegus punctata*)						
rataegus						
rataegus						
ush Honeysuckle (*Diervilla lonicera*)						
merican Beech (*Fagus grandifolia*)						
irginia strawberry (*Fragaria virginiana*)						
Vhite Ash (*Fraxinus americana*)						
lack Ash (*Fraxinus nigra*)						
reen Ash (*Fraxinus pennsylvanica*)						
Vinterberry (*Ilex verticilata*)						
ly Honeysuckle (*Lonicera canadensis*)						
laucous Honeysuckle (*Lonicera dioica*)						
lorrow's Honeysuckle (*Lonicera morrowii*)						
artarian Honeysuckle (*Lonicera tatarica*)						
ommon Apple (*Malus pumila*)						
weet Gale (*Myrica gale*)						
ronwood (*Ostrya virginiana*)						
hicket-creeper (*Parthenocissus inserta*)						
inebark (*Physocarpus opulifolius*)						
alsam Poplar (*Populus balsamifera*)						
arge-tooth Aspen (*Populus grandidentata*)						
rembling Aspen (*Populus tremuloides*)						
in Cherry (*Prunus pensylvanica*)						
lack Cherry (*Prunus serotina*)						
hoke Cherry (*Prunus virginiana*)						
runus						
Vhite Oak (*Quercus alba*)						
ur Oak (*Quercus macrocarpa*)						
ed Oak (*Quercus rubra*)						
lder Buckthorn (*Rhamnus alnifolia*)						
ommon Buckthorn (*Rhamnus cathartica*)						
taghorn Sumac (*Rhus hirta*)						
Vild Black Currant (*Ribes americanum*)						
rickly Gooseberry (*Ribes cynosbati*)						
wamp Black Currant (*Ribes lacustre*)						
ed Current (*Ribes rubrum*)						
ibes						
rickly Rose (*Rosa acicularis*)						
mooth Rose (*Rosa blanda*)						
osa						
om. Blackberry (*Rubus allegheniensis*)						
Vild Red Raspberry (*Rubus idaeus*)						
lack Raspberry (*Rubus occidentalis*)						
urple-fl. Raspberry (*Rubus odoratus*)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)						
Rubus						
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)						
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)	✓					
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Gaylussacia	X					
Viburnum cassin	X					
Chamaedaphne	X					
Oxycocus oxyc	X					
Oxycocc macro	X					
Kalmia angu	X					
Ledum groen	X					
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)						
Crested Wood Fern (*Dryopteris cristata*)						
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)						
Sensitive Fern (*Onoclea sensibilis*)						
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)	X					
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)	X					
Marsh Fern (*Thelypteris palustris*)						
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar(*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)	X					
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Deschampsia flex	X					
Agrostis scabra						
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracilima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (*Eleocharis erythropoda*)						
Eleocharis						
Hard-stem Bulrush (*Schoenoplectus acutus*)						
Three-square Bulrush (*Sch. pungens*)						
Soft-stem Bulrush (*Sch. tabernaemontani*)						
Dark-green Bulrush (*Scirpus atrovirens*)						
Wool-grass (*Scirpus cyperinus*)	X					
Eriophorum cf virginicum	X					
Other Graminoids						
Broad Bur-reed (*Sparganium eurycarpum*)						
Narrow-leaved Cattail (*Typha angustifolia*)						
Broad-leaved Cattail (*Typha latifolia*)						
Broad-leaved Cattail (*Typha X glauca*)						
Articulated Rush (*Juncus articulatus*)						
Soft Rush (*Juncus effusus*)						
Path Rush (*Juncus tenuis*)						
Juncus						
Juncus						

*D - **Dominant**: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum*
*F - **Fairly common** (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover*
*U - **Uncommon** (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)*
*R - **Rare**: represented in the polygon by less than about five individuals or small clumps*

Project: Henvey Turbine 36	1	SD1 Jack Pine Barrens.	4
Date: October 22/2014	2	SD2 - Treed Bog	5
Surveyors: Kamstra + DeMan	2		6

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
mon Yarrow (*Achillea millefolium*)						
e Snakeroot (*Ageratina altissima*)						
. Ragweed (*Ambrosia artemisiifolia*)						
[illegible]ytoes (*Antennaria neglecta*)						
[illegible]durdock (*Arctium minus*)						
ding Beggar-ticks (*Bidens cernua*)						
's Beggar-ticks (*Bidens frondosa*)						
ted Knapweed (*Centaurea biebersteinii*)						
wn Knapweed (*Centaurea jacea*)						
ory (*Cichorium intybus*)						
ada Thistle (*Cirsium arvense*)						
Thistle (*Cirsium vulgare*)						
eeweed (*Conyza canadensis*)						
sy Fleabane (*Erigeron annus*)						
adelphia Fleabane (*Erig. philadelphicus*)						
geron						
-pye-weed (*Eupatorium maculatum*)						
eset (*Eupatorium perfoliatum*)						
ge-leaved Aster (*Eurybia macrophylla*)						
-top Goldenrod (*Euthamia graminifolia*)						
nge Hawkweed (*Hieracium aurantiacum*)						
d Hawkweed (*Hieracium caespitosum*)						
racium						
campane (*Inula helenium*)						
ckly Lettuce (*Lactuca serriola*)						
tuca						
-eye Daisy (*Leucanthemum vulgare*)						
eapple-weed (*Matricaria discoidea*)						
l White Lettuce (*Prenanthes altissima*)						
ck-eyed Susan (*Rudbeckia hirta*)						
l Goldenrod (*Solidago altissima*)						
e-stem Goldenrod (*Solidago caesia*)						
nada Goldenrod (*Solidago canadensis*)						
-zag Goldenrod (*Solidago flexicaulis*)						
ant Goldenrod (*Solidago gigantea*)						
ty Goldenrod (*Solidago juncea*)						
ay Goldenrod (*Solidago nemoralis*)						
idago						
id Sow-thistle (*Sonchus arvensis*)						
nchus						
art-leaf Aster (*Symph. cordifolium*)						
ath Aster (*Symphyotrichum ericoides*)						
l White Aster (*Symph. lanceolatum*)						
[illegible] Aster (*Symphyotrichum lateriflorum*)						
[illegible]and Aster (*Symph. novae-angliae*)						
[illegible]em Aster (*Symph. puniceus*)						
ommon Tansy (*Tanacetum vulgare*)						
mmon Dandelion (*Taraxacum officinale*)						
m. Goatsbeard (*Tragopogon pratensis*)						
tsfoot (*Tussilago farfara*)						

Other Dicot Herbs						
hite Baneberry (*Actaea pachypoda*)						
ed Baneberry (*Actaea rubra*)						
all Agrimony (*Agrimonia gryposepala*)						
artic Mustard (*Alliaria petiolata*)						
reen Amaranth (*Amaranthus retroflexus*)						
og-peanut (*Amphicarpa bracteata*)						
early Everlasting (*Anaphalis margaritacea*)						
anada Anemone (*Anemone canadensis*)						
y Hepatica (*Anemone acutiloba*)						
himbleweed (*Anemone virginiana*)						
urple Angelica (*Angelica atropurpurea*)						
ndian Hemp (*Apocynum cannabinum*)						
ild Sarsaparilla (*Aralia nudicaulis*)						
pikenard (*Aralia racemosa*)						
ild Ginger (*Asarum canadense*)						
swamp Milkweed (*Asclepias incarnata*)						
ommon Milkweed (*Asclepias syriaca*)						
ellow Rocket (*Barbarea vulgaris*)						
lack Mustard (*Brassica nigra*)						
arsh-marigold (*Caltha palustris*)						
hepherd's Purse (*Capsella bursa-pastoris*)						
utleaf Toothwort (*Cardamine concatenata*)						
oothwort (*Cardamine diphylla*)						
[illegible]itter-cress (*Cardamine pensylvanica*)						
[illegible]ine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-flower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Gallium mollugo*)						
Marsh Bedstraw (*Gallium palustre*)						
Sweet-scented Bedstraw (*Gallium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Grumwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteri*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanguinaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Med Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						
Gaultheria procumbens	X					

Monocot Herbs						
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallus fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

- **Dominant**: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum
- **Fairly common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover
- **Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)
- **Rare**: represented in the polygon by less than about five individuals or small clumps

roject:	1		4			
ate:	2		5			
urveyors:	3		6			

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	OCT 30, 2014	**Map No.:**	35 South
Field Staff:	OH, JK	**Infrastructure:**	~~Access Road, T35~~ ACCESS ROAD to T36
Start Time:	3:30	**End Time:**	4:30
Weather:	Overcast, 6°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: 2 Locations:	✓	(1) 525068 5074685 (2) 525320 5074600 (40 cm dr)		Water/wetland habitat: vernal pool, Bluejoint grass surrounding on rock barren (photos) 50 cm deep, sedge and litter leaf ⇒ description of (1) Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	✓		525120 5074687	Jack Pine decomposing / also in FOD3-2 lots of snags
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:	✓	(1) (2)	525035 5074752 525335 5074593	RBT3-2, (also moose scat in same location)
Skink Habitat/Nesting Area				
Forest with cover objects:		✓		
Barren with cover objects:		✓		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils: ~~Fed~~	✓		525350 5074560	FOD3-2 ⇒ feeding area during winter, Red Maple heavily grazed

ELC Community Description and Classification	Map #: 536 784		Polygon: SD3	
	Surveyor(s): J Kamsta, J deMa	Date: Oct. 22, 2014	Time start: 1:10 pm finish: 1:30 pm	
	UTMZ:	UTMZ: 525150	UTMN: 5074185	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Mln. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☒ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☒ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☒ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

Stand Description

winterberry = speckled alder

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Frax nigr > Betula pap = Populus trem
2	4	4	Shrub sp >> Thuja occ > Rubus alleg = Larix lar
3	6	1	Cornus cana
4	7	3	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

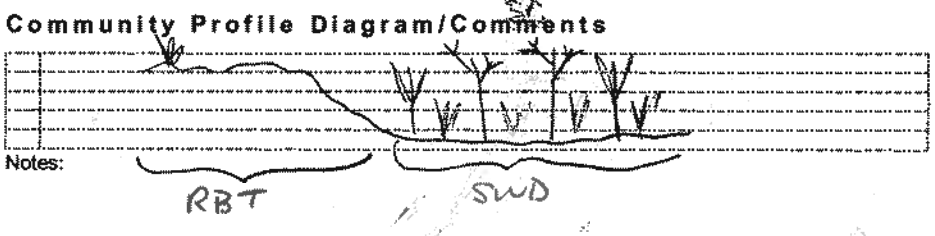
Stand Composition:	Size Class Anelysis:	A	<10	O	10-24	N	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:	Ash Organic Deciduous Swamp	Code:	SWD5
Vegetation Type:	Black Ash Organic Dec. Swamp	Code:	SWD5-1
Inclusion:	n/a	Code:	
Complex:	n/a	Code:	

Community Profile Diagram/Comments



Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Betula pap	10, 12, 10 cm dbh					
Fraxinus nigra	10, 15 cm dbh					
dead snag	12, 10 cm dbh					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #	1			Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position	0			
		Aspect	0			Drainage
		Percent	0%			
		Slope Length	10m			
Depth to...		Mottles	none			
		Gley	none			Effective Texture (indicate below)
		Water Table	at surface			
		Carbonates				
		Bedrock				

Soil Horizon Description										
1	Depth from zero	60cm	% CF 0		% CF		% CF		% CF
	Texture	Oh							
2	Depth from zero	60-70cm+	% CF 0		% CF		% CF		% CF
	Texture	Organic / Sand							
3	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
4	Depth from zero		% CF		% CF		% CF		% CF
	Texture								
	% Surface Stone/Rock								
Moisture Regime									
Drainage									

Turbine 84

ELC Community Description and Classification

Map #: 536 Turbine 84	Polygon: SD5		
Surveyor(s): Kamstra deMan	Date: Oct. 22/14	Time start: 2:00	finish: 2:30
UTMZ: 17	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mln.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☒ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☒ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

diverse microtopography

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	Larix lara >> Betula pap > Pinus banksiana
2	5	6	Chama cal > Ledum groen
3	7	6	Sphagnum
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:								
	Standing Snags:	R	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:	Treed Kettle Bog Ecosite	Code:	BOT1
Vegetation Type:	Tamarack - Leatherleaf Bog	Code:	BOT1d
Inclusion:	-drier a Kettle -> in the plant comp	Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Larix lara	10, 10, 12, 15 cm dbh					
dead Betula pap	16, 10 cm dbh					
Pinus banksiana	12, 15 cm dbh					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #	1						
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position	0						
		Aspect	0						
		Percent	0%						Drainage
		Slope Length	10m						
Depth to...		Mottles	None						
		Gley	none						
		Water Table	Saturated						Effective Texture (Indicate below)
		Carbonates							
		Bedrock							

Soil Horizon Description											
	1	Depth from zero	40cm+	% CF 0		% CF		% CF		% CF	
		Texture	Oh								
	2	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock	0%								
	Moisture Regime										
	Drainage										

plan

ELC Community Description and Classification

Map #: 536 Turbine 84	Polygon: SD4		
Surveyor(s): Kamstra	Date: Oct 22/14	Time start: 13:45	finish: 2:00pm
UTMZ: 17	UTMZ: 525090	UTMN: 5074180	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mln.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☒ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☒ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☒ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	Lar lari
2	3/4	3	Larlari - Ahninca - Illvert
3	5	4	Carex sp >> Osmrega
4	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	N	R	N	N
BA:	Deadfall / Logs:	O	R	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth
				X	

Ecosite:	Treed Fen Ecosite	Code:	FET1
Vegetation Type:	Tamarack Treed Fen	Code:	FET1-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Tamarack	10 cm dbh.					
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

			Pit/Auger #	1			Summary
Site Metrics	UTM		Zone				Moisture Regime
			Easting				
			Northing				
	Slope		Position	0			
			Aspect	0			Drainage
			Percent	01.			
			Slope Length	10m			
Depth to...			Mottles	none			Effective Texture (indicate below)
			Gley	none			
			Water Table	Saturated			
			Carbonates				
			Bedrock				
Soil Horizon Description	1		Depth from zero	7 100cm	% CF 0	% CF	% CF / % CF
			Texture	fibric organic			
	2		Depth from zero		% CF	% CF / % CF / % CF	
			Texture				
	3		Depth from zero		% CF	% CF / % CF / % CF	
			Texture				
	4		Depth from zero		% CF	% CF / % CF / % CF	
			Texture				
			% Surface Stone/Rock				
			Moisture Regime				
			Drainage				

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☐ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☐ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 50% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Plt/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
		Dominant	Present	Form		
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form			HT	CVR
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☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
Common Yarrow (*Achillea millefolium*)						
White Snakeroot (*Ageratina altissima*)						
Com. Ragweed (*Ambrosia artemisiifolia*)						
Field Pussytoes (*Antennaria neglecta*)						
Ar[illegible]						
Co[illegible] Burdock (*Arctium minus*)						
Nodding Beggar-ticks (*Bidens cernua*)						
Devil's Beggar-ticks (*Bidens frondosa*)						
Spotted Knapweed (*Centaurea biebersteinii*)						
Brown Knapweed (*Centaurea jacea*)						
Chicory (*Cichorium intybus*)						
Canada Thistle (*Cirsium arvesnse*)						
Bull Thistle (*Cirsium vulgare*)						
Horseweed (*Conyza canadensis*)						
Daisy Fleabane (*Erigeron annus*)						
Philadelphia Fleabane (*Erig. philadelphicus*)						
Erigeron						
Joe-pye-weed (*Eupatorium maculatum*)			X			
Boneset (*Eupatorium perfoliatum*)						
Large-leaved Aster (*Eurybia macrophylla*)		X				
Flat-top Goldenrod (*Euthamia graminifolia*)						
Orange Hawkweed (*Hieracium aurantiacum*)						
Field Hawkweed (*Hieracium caespitosum*)						
Hieracium						
Elecampane (*Inula helenium*)						
Prickly Lettuce (*Lactuca serriola*)						
Lactuca						
Ox-eye Daisy (*Leucanthemum vulgare*)						
Pineapple-weed (*Matricaria discoidea*)						
Tall White Lettuce (*Prenanthes altissima*)						
Black-eyed Susan (*Rudbeckia hirta*)						
Tall Goldenrod (*Solidago altissima*)						
Blue-stem Goldenrod (*Solidago caesia*)						
Canada Goldenrod (*Solidago canadensis*)						
Zig-zag Goldenrod (*Solidago flexicaulis*)						
Giant Goldenrod (*Solidago gigantea*)						
Early Goldenrod (*Solidago juncea*)						
Gray Goldenrod (*Solidago nemoralis*)						
Solidago						
Field Sow-thistle (*Sonchus arvensis*)						
Sonchus						
Heart-leaf Aster (*Symph. cordifolium*)						
Heath Aster (*Symphyotrichum ericoides*)						
Tall White Aster (*Symph. lanceolatum*)						
Calico Aster (*Symphyotrichum lateriflorum*)						
N[illegible]land Aster (*Symph. novae-angliae*)						
P[illegible]tem Aster (*Symph. puniceus*)			X			
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						
Aster whorled			X			

Other Dicot Herbs	1	2	3	4	5	6
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
P[illegible] Bitter-cress (*Cardamine pensylvanica*)						
C[illegible]ine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimum cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteni*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thumb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanguinaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Veron. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						

Monocot Herbs	1	2	3	4	5	6
Water-plantain (*Alisma plantago-aquatica*)						
Wild Leek (*Allium tricoccum*)						
Jack-in-the-pulpit (*Arisaema triphyllum*)						
Wild Calla (*Calla palustris*)						
Bluebead-lily (*Clintonia borealis*)						
Garden Lily-of-valley (*Convallaria majalis*)						
Yel. Lady's Slipper (*Cypripedium parviflora*)						
Canada Waterweed (*Elodea canadensis*)						
Helleborine (*Epipactis helleborine*)						
Yellow Trout Lily (*Erythronium americanum*)						
Blue-flag Iris (*Iris versicolor*)						
Orange Day Lily (*Hemerocallis fulva*)						
Lesser Duckweed (*Lemna minor*)						
Starry Duckweed (*Lemna trisulca*)						
Wild Lily-of-valley (*Maianthemum canadense*)						
False Solom Seal (*Maianthemum racemosum*)						
Star False Solomon (*Maianthemum stellatum*)						
True Solomon Seal (*Polygonatum pubescens*)						
Pickerel-weed (*Pontederia cordata*)						
Curly-leaf Pondweed (*Potamogeton crispus*)						
Sago Pondweed (*Potamogeton pectinatus*)						
Potamogeton						
Potamogeton						
Broad-leaved Arrowhead (*Sagittaria latifolia*)						
Blue-eyed-grass (*Sisyrinchium montanum*)						
Herb. Carrion Flower (*Smilax herbacea*)						
Nodding Ladies' Tresses (*Spiranthes cernua*)						
Rose Twisted-stalk (*Streptopus lanceolatus*)						
Purple Trillium (*Trillium erectum*)						
White Trillium (*Trillium grandiflorum*)						
Large-flowered Bellwort (*Uvularia grandiflora*)						

D - Dominant: represented by large numbers; generally forming >10% ground covet or >25% vegetation cover in any one stratum

F - Fairly common (=Abundant in ELC): generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover

U - Uncommon (=Occasional in ELC): present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this catergory)

R - Rare: represented in the polygon by less than about five individuals or small clumps

Project:	1	4	
Date:	2	5	
Surveyors:	3	6	

Turbine 84

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir (*Abies balsamea*)		X				
Common Juniper (*Juniperus communis*)	X					
Eastern Red Cedar (*Juniperus virginiana*)						
Tamarack (*Larix laricina*)	X	✓	✓			
White Spruce (*Picea glauca*)		X				
Black Spruce (*Picea mariana*)	X					
Jack Pine (*Pinus banksiana*)	X					
Red Pine (*Pinus resinosa*)						
Eastern White Pine (*Pinus strobus*)						
Scotch Pine (*Pinus sylvestris*)						
Canada Yew (*Taxus canadensis*)						
Eastern White Cedar (*Thuja occidentalis*)		X	X			
Eastern Hemlock (*Tsuga canadensis*)						
Deciduous						
Manitoba Maple (*Acer negundo*)						
Norway Maple (*Acer platanoides*)						
Red Maple (*Acer rubrum*)		✓				
Freeman's Maple (*Acer X freemanii*)						
Sugar Maple (*Acer saccharum*)						
Mountain Maple (*Acer spicatum*)						
Speckled Alder (*Alnus incana*)		X				
Downy Serviceberry (*Amelanchier arborea*)						
Serviceberry (*Amelanchier sanguinea*)						
Yellow Birch (*Betula alleghaniensis*)						
White Birch (*Betula papyrifera*)	X	X				
Blue Beech (*Carpinus caroliniana*)						
Climbing Bittersweet (*Celastrus scandens*)						
Buttonbush (*Cephalanthus occidentalis*)						
Alt.-leaved Dogwood (*Cornus alternifolia*)						
Silky Dogwood (*Cornus amomum*)						
Bunchberry (*Cornus canadensis*)	✓					
Gray dogwood (*Cornus racemosa*)						
Round-leaved Dogwood (*Cornus rugosa*)						
Red-osier Dogwood (*Cornus sericea*)		X				
Beaked Hazel (*Corylus cornuta*)						
English Hawthorn (*Crataegus monogyna*)						
Large-fruited Thorn (*Crataegus punctata*)						
Crataegus						
Crataegus						
Bush Honeysuckle (*Diervilla lonicera*)						
American Beech (*Fagus grandifolia*)						
Virginia strawberry (*Fragaria virginiana*)						
White Ash (*Fraxinus americana*)						
Black Ash (*Fraxinus nigra*)		✓				
Green Ash (*Fraxinus pennsylvanica*)						
Winterberry (*Ilex verticillata*)		X	X			
Fly Honeysuckle (*Lonicera canadensis*)						
Glaucous Honeysuckle (*Lonicera dioica*)						
Morrow's Honeysuckle (*Lonicera morrowii*)						
Tartarian Honeysuckle (*Lonicera tatarica*)						
Common Apple (*Malus pumila*)						
Sweet Gale (*Myrica gale*)						
Ironwood (*Ostrya virginiana*)						
Thicket-creeper (*Parthenocissus inserta*)						
Ninebark (*Physocarpus opulifolius*)						
Balsam Poplar (*Populus balsamifera*)						
Large-tooth Aspen (*Populus grandidentata*)						
Trembling Aspen (*Populus tremuloides*)	X	X				
Pin Cherry (*Prunus pensylvanica*)						
Black Cherry (*Prunus serotina*)						
Choke Cherry (*Prunus virginiana*)						
Prunus						
White Oak (*Quercus alba*)						
Bur Oak (*Quercus macrocarpa*)						
Red Oak (*Quercus rubra*)						
Alder Buckthorn (*Rhamnus alnifolia*)						
Common Buckthorn (*Rhamnus cathartica*)						
Staghorn Sumac (*Rhus hirta*)						
Wild Black Currant (*Ribes americanum*)						
Prickly Gooseberry (*Ribes cynosbati*)						
Swamp Black Currant (*Ribes lacustre*)						
Red Currant (*Ribes rubrum*)						
Ribes						
Prickly Rose (*Rosa acicularis*)						
Smooth Rose (*Rosa blanda*)						
Rosa						
Com. Blackberry (*Rubus allegheniensis*)	X					
Wild Red Raspberry (*Rubus idaeus*)		X				
Black Raspberry (*Rubus occidentalis*)						
Purple-fl. Raspberry (*Rubus odoratus*)						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry (*Rubus pubescens*)		X				
Rubus hispidus		X				
Peach-leaved Willow (*Salix amygdaloides*)						
Bebb's Willow (*Salix bebbiana*)						
Pussy Willow (*Salix discolor*)						
Missouri Willow (*Salix eriocephala*)						
Sandbar Willow (*Salix exigua*)						
Shining Willow (*Salix lucida*)						
Slender Willow (*Salix petiolaris*)						
Salix						
Hybrid Crack Willow (*Salix X rubens*)						
Black-berried Elder (*Sambucus nigra*)						
Red-berried Elder (*Sambucus racemosa*)						
Buffaloberry (*Shepherdia canadensis*)						
Amer. Mountain Ash (*Sorbus americana*)						
Narrow Meadow-sweet (*Spiraea alba*)						
Common Lilac (*Syringa vulgaris*)						
Basswood (*Tilia americana*)						
Poison-ivy (*Toxicodendron rydbergii*)						
White Elm (*Ulmus americana*)						
Low Blueberry (*Vaccinium angustifolium*)	X					
Maple-leaf Viburnum (*Viburnum acerifolium*)						
Hobblebush (*Viburnum lantanoides*)						
Nannyberry (*Viburnum lentago*)						
Downy Arrow-wood (*Vib. rafinesquianum*)						
Riverbank Grape (*Vitis riparia*)						
Am. Prickly-ash (*Zanthoxylum americanum*)						
Vib. cassinoides		X				
Vib. trilobum		X				
Nemopanthus			X			
Gaylussacia	X					
Aralia hispida	X					
Ferns & Allies						
Lady Fern (*Athyrium filix-femina*)						
Rattlesnake Fern (*Botrychium virginianum*)						
Bulbet Bladder Fern (*Cystopteris bulbifera*)						
Spin. Wood Fern (*Dryopteris carthusiana*)		X				
Crested Wood Fern (*Dryopteris cristata*)		X				
Marginal Wood Fern (*Dryopteris marginalis*)						
Dryopteris						
Ostrich Fern (*Matteuccia struthiopteris*)		X				
Sensitive Fern (*Onoclea sensibilis*)		✓				
Cinnamon Fern (*Osmunda cinnamomea*)						
Interrupted Fern (*Osmunda claytoniana*)						
Royal Fern (*Osmunda regalis*)			X			
Christmas Fern (*Polystichum acrostichoides*)						
Eastern Bracken-fern (*Pteridium aquilinum*)						
Marsh Fern (*Thelypteris palustris*)						
Field Horsetail (*Equisetum arvense*)						
Scouring-rush (*Equisetum hyemale*)						
Variegated Horsetail (*Equisetum variegatum*)						
Equisetum						
Ground-cedar (*Lycopodium digitatum*)						
Shining Clubmoss (*Lycopodium lucidulum*)						
Ground-pine (*Lycopodium obscurum*)		X				
Ly						

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop (*Agrostis gigantea*)						
Redtop (*Agrostis stolonifera*)						
Awnless Brome (*Bromus inermis*)						
Bromus						
Blue-joint Grass (*Calamagrostis canadensis*)						
Orchard Grass (*Dactylis glomerata*)						
Poverty Oat Grass (*Danthonia spicata*)						
Quack Grass (*Elymus repens*)						
Virginia Wild Rye (*Elymus virginicus*)						
Elymus						
Fowl Manna Grass (*Glyceria striata*)						
Glyceria						
Rice Cut Grass (*Leersia oryzoides*)						
Tall Fescue (*Lolium arundinaceum*)						
Muhlenbergia						
Witch-grass (*Panicum capillare*)						
Panicum						
Reed Canary Grass (*Phalaris arundinacea*)						
Timothy (*Phleum pratense*)						
Common Reed (*Phragmites australis*)						
Canada Blue Grass (*Poa compressa*)						
Fowl Meadow Grass (*Poa palustris*)						
Kentucky Bluegrass (*Poa pratensis*)						
Deschampsia flex.	✓					
Agrostis scabra						
Sedges						
Drooping Wood Sedge (*Carex arctata*)						
Golden-fruited Sedge (*Carex aurea*)						
Graceful Sedge (*Carex gracillima*)						
Inland Sedge (*Carex interior*)						
Bladder Sedge (*Carex intumescens*)						
Lake-bank Sedge (*Carex lacustris*)						
Hop Sedge (*Carex lupulina*)						
Pennsylvania Sedge (*Carex pensylvanica*)						
Awl-fruited Sedge (*Carex stipata*)						
Fox Sedge (*Carex vulpinoidea*)						
Carex lasiocarpa			X			
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush (*Eleocharis erythropoda*)						
Eleocharis						
Hard-stem Bulrush (*Schoenoplectus acutus*)						
Three-square Bulrush (*Sch. pungens*)						
Soft-stem Bulrush (*Sch. tabernaemontani*)						
Dark-green Bulrush (*Scirpus atrovirens*)						
Wool-grass (*Scirpus cyperinus*)						
Other Graminoids						
Broad Bur-reed (*Sparganium eurycarpum*)						
Narrow-leaved Cattail (*Typha angustifolia*)						
Broad-leaved Cattail (*Typha latifolia*)						
Broad-leaved Cattail (*Typha X glauca*)						
Articulated Rush (*Juncus articulatus*)						
Soft Rush (*Juncus effusus*)						
Path Rush (*Juncus tenuis*)						
Juncus						
Juncus						

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R - Rare: represented in the polygon by less than about five individuals or small clumps

Project:	Turbine 84	1	S	D	1			Jack Pine Barren
Date:	Oct 22/2014	2	S	D	3			Black Ash-Poplar Swamp
Surveyors:	JK + JV	3	S	D	C			BOTH
		4						
		5						
		6						

Map S36

Turbine 84

Henvey Inlet - SWH & SAR Habitat Assessment Form

AECOM

**Based on SWHTG Ecoregion E5 Criterion Schedule

Date: Oct 22 / 2014 Map No.: S 36

Field Staff: JK + JD Location:

Weather Conditions: clear 10°C. ELC Polygons: RBT, SWD, FET

Start Time: 13:00 End Time:

****** If any of the features listed below is identified, dalineate it on the field map******

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Beld Eagle Breeding/Nesting Habitat

(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs: Number of nests:

Description of nests (location, e.g. in tree/on built structure; meterial; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Weterfowls Stopover/Nesting, Amphibien Breeding, Turtle Neeting/Over-wintering, Marsh Breeding

(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☐ No minimal bed Stone ☐ Yes (*Photograph and complete form*)

Aquatic food supply present (invertebrates/vegetation): ☐ No ☐ Yes (*Photograph and complete form*)

UTMs:

Water depth (*m*): 30cm % open water: 5 % emergent vegetation: 95

Description of standing water (permenent pool, evidence of annual spring flooding, etc.):

Sporadic pools in Fen (SD4) possible Amp breeds

Area and soil/substrate of shoreline habitat:

Type of cover in open weter hebitat:

Type and abundance of cover in surrounding habitat:

Presence of pondweeds, milfoil and/or yellow weter lily: NO

Presence of peat: YES

Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds:

Colonial Nesting Bird Breeding Hebitat (Bank, Cliff, Northern Rough-winged Sweilows)/SAR Bird (Peregrine Falcon)

(CUM1, CUT1, CUS, eLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Describe substrate:

Evidence of use by swallows or falcons (provide number of nests):

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Arees/Turtle Nesting Area/SAR Snakes

(BBO1, BBO2, BBS1, BBS2, BeT1, BeT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☒ No ☐ Yes (*Photograph and complete form*)

Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)

Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)

UTMs:

Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, type and abundance of cover):*

Tower Site 84

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photogreph and complete form*)
Description (e.g. indicator sp):
Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birda
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☐ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photogreph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sitee
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquetic habitat present: ☐ No ☒ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by memmals: Deciduous Poplar - Ash Swamp

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 525153/5074090 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.): Potential Massasauga gestation site
Description of surrounding habitat (type & abundence of cover, evidence of disturbance, etc.):
Also Possible Skink Habitat

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: Rock barren w some scattered rocks.

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☒ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure: SWDS-1 community

Turbine 84

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		Jack Pine Barrens
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject
	Poplar - Ash Swamp.		
	Jack Pine Barrens at Town		
	Main Gate Site		

Incidental Wildlife Observations:

Moose - heavy browsing on Red Maple saplings - 525160 / 5074170

Other Obeervetions:

HENVEY INLET FIELD MAPS

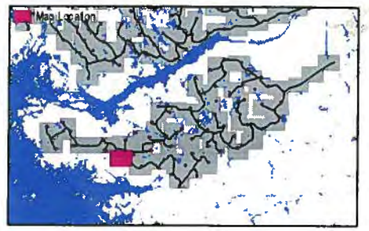
Map ID: HNV South 36

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

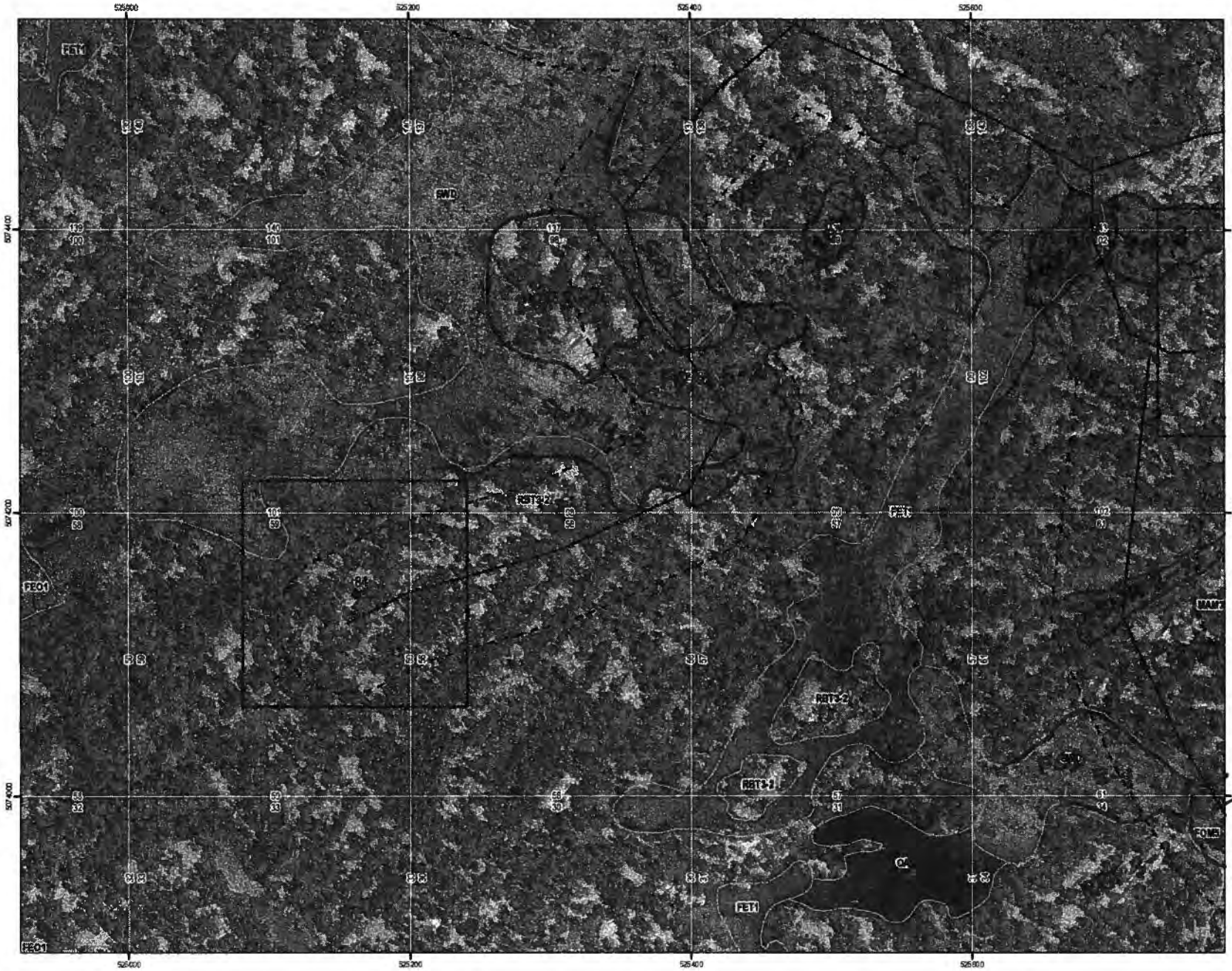
- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Othar
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100
Meters
1:2,500



HENVEY INLET FIELD MAPS

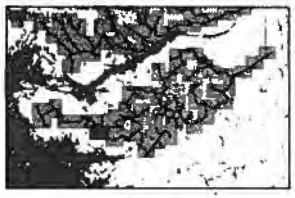
Map ID: HNV South 36

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (100m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

FOMS-2

10/20/2014

0 25 50 100

Meters

1:2,500

+1 ELCCARD

ELC Form

Project: Henvey Inlet **Date:** 11/04/14 **Start Time:** 10:15 **End Time:**

Field Staff: JK/JE **Infrastructure:** Road N of 784

Map No.: MAP 36 South **UTMs:** 20

525505/5074410

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ BOS1-4	leather leaf shrub bog	☑	☑	Low Shrub	5	4
☐		☐	☑	Tall Shrub	4	1
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree	2	2
☐		☐	☑	Coniferous Tree	2	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
DWARF BIRCH	
ALNUS	
CHAMAEDAPHNE / SPHAGNUM	

525370/5074360

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5-6	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWD4-3	Birch-Larch SWAMP	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub	3	4
☐		☐	☑	Dead Tree		
☐		☑	☑	Deciduous Tree	2	4
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
BET PAP BALSAM SP PICEA SPP	
ALNUS TRAUB. / LABRA. FR.	
TRIENTALIS	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Jack pine	

Frayhaut

525592/5074470

UTM

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid	5	3
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	5	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ FES1-4	leather leaf-Forb shrub fen	☑	☑	Low Shrub	4	4
☐		☐	☑	Tall Shrub	3	2
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
leather leaf; carex wiruleda, chain fern	

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

525680 / 5074100

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	1	3
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub	4	3
☐		☐	☑	Tall Shrub	3	3
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree	2	3
☐		☑	☑	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex
Black spruce dominated w some Balsam Poplar	

525710 5074115

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb	1	4
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWM3-2	Poplar/conifer mixed Swamp	☐	☐	Low Shrub	3	4
☐		☐	☑	Tall Shrub	3	4
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree	6	4

Dominant/Notable Species	Inclusion/Complex
Treed bog 2 barrens / mix conifer poplar swamp	

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: 36South		Polygon:	
Surveyor(s): JK/JE	Date: Nov 4/14	Time start: 11:30	finish: 12:00
UTMZ: 17T	UTMZ 526395	UTMN: 6074303	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☐ Natural		☐ Crevice/Cave	☒ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☒ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☒ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	PINSTRO = PICGLA > PINBANK > ALNRUB
2	3-4	3	ACERUB >> PINSTRO
3	5	3	JUNCOM = BRACKEN FERN > BACANG
4	6	4	GAUPROC > BUNBERRY > MOSSES > BEARBERRY

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:								
	Standing Snags:	R	<10	A	10-24	O	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	R	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☑ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	FOM
Vegetation Type:	Dry-Fresh Poplar mixed forest	Code:	FOM5-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

											Summary
Site Metrics		Pit/Auger #									
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position									
		Aspect									
		Percent									Drainage
		Slope Length									
Depth to...		Mottles									
		Gley									
		Water Table									Effective Texture (indicate below)
		Carbonates									
		Bedrock									
Soil Horizon Description	1	Depth from zero	10+	% CF 0		% CF		% CF		% CF	
		Texture	Sandy loam								
	2	Depth from zero	25	% CF 5		% CF		% CF		% CF	
		Texture	medium sand								
	3	Depth from zero	50	% CF 40		% CF		% CF		% CF	
		Texture	coarse sand + gravel								
	4	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock									
	Moisture Regime										
	Drainage										

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	NOV 4 2014	**Map No.:**	MAP 36 South
Field Staff:	TK/JE	**Infrastructure:**	T8S
Start Time:	10:30	**End Time:**	
Weather:	100% CC, BS=1-2, 8°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Ospray Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		525355 5074212 525000, 5074345 525587, 5074440	Water/wetland habitat: <40cm deep Soil/peat: mineral swamp SWD4-3
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	Y		525370/5074360	upland of SWD4-3
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y			
Massasauga gestation habitat:	Y		see backpage	
Skink Habitat/Nesting Area				
Forest with cover objects:				
Barren with cover objects:	Y		RBT3-2	widespread
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Red squirrel, BLJA, BCCH, PINE GROSBEAK, FOX (SCAT) 525440/5074240, Mammal trail 525455/5074255,

AMPIB SWH: 525710/5074150

Cavity Tree 525345/5074212 BETPAP 30 cm DBH

Moose SCAT 525220/5074140, 525477/5074275, 505495, 5074312, 525705/5074210

BEAR SCAT: 525340/5074173, 525500/5074345, 525495/5074367

Rattlesnk Gest: 525243/5074127, 525263/5074180, 525495/5074367, 525533/5074500 ~~[illegible]~~ 525710/5074115 (LARGE)

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Rattle Rattlesnake Gest: 525763/5074055

Other Comments/Observations:

Moose/Deer browse in FOM.

FOD71 525770/5074010

Nov 4, 2014 - JE/JK

MAP 36 - RHSN Gestation site
~ 200m away 525310 | 5074945
Bear Scat — 525510 | 5074857
Moose Scat 525485 | 5074545

BTW MAP 36 & SHARE Rattle Ghost
525410 5075120

Rare Vegetation Community	Present (Y/N)	Notes/Oescription
Shallow Atlantic Coastal Marsh		
Cliffs end Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine		
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observatione:

Other Observatione:

HENVEY INLET FIELD MAPS

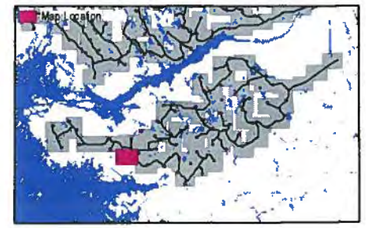
Map ID: HNV South 36

Layout

- L01R00
- Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100
Meters

1:2,500

HENVEY INLET FIELD MAPS

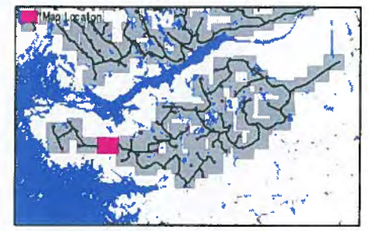
Map ID: HNV South 44

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification	Map #: 44 South		Polygon: SWM	
	Surveyor(s): JK-OH	Date: Oct 30, 2014	Time start: finish:	
	UTMZ: 524292	UTMZ: 5074733	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☒ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☒ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	ACERUBR > POPTREM > PICGLAV
2	3	4	PICGLAV > FRANIGR > ACERUBR > ALNINCA
3	4	4	VIBCASS = ILLVERT
4	5-6	3	BRYOPTERIS sp. calamagrostis sp.
	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	O	25-50	N	>50
	Standing Snags:	O	<10	R	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	A	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Red Maple - White Spruce Swamp	Code:	SWMa
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: 2 Cavity tree (Birch and Red Maple) 524315 5074727

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Community Description and Classification	Map #: 44 South		Polygon:	
	Surveyor(s): JK, OH	Date: Oct 30, 2014	Time start: 12:00 finish:	
	UTMZ: 524230	UTMZ: 5079920	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial ☒ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☒ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☒ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☒ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

Stand Description

reverse order

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	LETPAPY > PINSTROB > ACERUBR > PICGLAU
2	3	2	PICGLAU > ACERUBR > PINSTROB
3	4	3-4	CORCORN
4	5-6	2	BUNCHBERRY = BRACKEN FERN / MOSS

HT Codes: 7 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	A	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	White Birch – White Pine Mixed Forest	Code:	FOMB
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: Appears to be disturbed by an ice trees
- lots of dead birch, lots of potential cavity trees

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: S44 Turbine B3	Polygon: SD8		
Surveyor(s): Kanstra dopman	Date: Oct. 22/14	Time start: 3:15 pm	finish: 3:30 pm
UTMZ: 17T	UTMZ: 524590	UTMN: 5014490	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☒ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☒ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☒ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☒ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☒ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar	☒ tall shrub	☐ Prairie
Cover		☐ Rockland		☒ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☒ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	alnus > winterberry > Salix discolor > sweet gale
2	7-6	3	Sphagnum hummocks
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Organic Thicket Swamp	Code:	SWT3
Vegetation Type:	alder Organic Thicket Swamp	Code:	SWT3-1
Inclusion:	n/a	Code:	
Complex:	n/a	Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics	Pit/Auger #					
	UTM: Zone					Moisture Regime
	UTM: Easting					
	UTM: Northing					
	Slope: Position					
	Slope: Aspect					Drainage
	Slope: Percent					
	Slope: Slope Length					
Depth to...	Mottles					
	Gley					Effective Texture (indicate below)
	Water Table					
	Carbonates					
	Bedrock					
Soil Horizon Description	1 Depth from zero		% CF	% CF	% CF	% CF
	1 Texture					
	2 Depth from zero		% CF	% CF	% CF	% CF
	2 Texture					
	3 Depth from zero		% CF	% CF	% CF	% CF
	3 Texture					
	4 Depth from zero		% CF	% CF	% CF	% CF
	4 Texture					
	% Surface Stone/Rock					
	Moisture Regime					
	Drainage					

Kilo Zone 03

ELC Community Description and Classification	Map #: S44 Square 135		Polygon: SD6	
	Surveyor(s): JD + JK	Date: Oct 22/14	Time start: 2:48pm finish: 3:15pm	
	UTMZ: 17T	UTMZ: 524665	UTMN: 5074470	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☒ Terrestrial	☒ Organic	☒ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☒ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☒ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☒ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☒ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar	☒ tall sh b	☐ Prairie
Cover		☐ Rockland		☒ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☒ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	4	alnus >> winterberry
2	7-6	3	Sphagnum hummocks
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Organic Thicket Swamp	Code:	SWT3
Vegetation Type:	Alder Organic Thicket Swamp	Code:	SWT 3-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

											Summary
Site Metrics		Plt/Auger #									
	UTM	Zone									Moisture Regime
		Easting									
		Northing									
	Slope	Position									
		Aspect									Drainage
		Percent									
		Slope Length									
Depth to...		Mottles									
		Gley									Effective Texture (indicate below)
		Water Table	at surface								
		Carbonates									
		Bedrock									
Soil Horizon Description	1	Depth from zero	20 cm	% CF		% CF		% CF		% CF	
		Texture	water depth								
	2	Depth from zero	20-40cm	% CF 0		% CF		% CF		% CF	
		Texture	Of								
	3	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
	1	Depth from zero		% CF		% CF		% CF		% CF	
		Texture									
		% Surface Stone/Rock	0%								
		Moisture Regime									
		Drainage									

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Deminance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:		<10		10-24		25-50		>50
	Standing Snags:		<10		10-24		25-50		>50
BA:	Deadfall / Logs:		<10		10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:		Pioneer		Young		Mid-Age		Mature		Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

Turbine 83

ELC Community Description and Classification	Map #: 544		Polygon: SD 7	
	Surveyor(s): Kamstra	Date: Oct 22/14	Time start: 14:45 finish: 15:15	
	UTMZ: 17T	UTMZ: 524615	UTMN: 5074570	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☒ Wetland ☐ Aquatic	☒ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☒ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☒ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☐ Fen ☒ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☒ Surficial Dep. ☐ Bedrock				
History ☒ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☒ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Larian
2	5	4	Woolving - Chacaly > Ledgrove Kalangy
3	7	4	Sphagnum Moss
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50		>50
	Standing Snags:	O	<10	R	10-24		25-50		>50
BA:	Deadfall / Logs:	A	<10	R	10-24		25-50		>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	Treed Bog Ecosite	Code:	BOT1
Vegetation Type:	Tamarack - Chain Fern Bog	Code:	BOT1a
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

Site Metrics	Pit/Auger #									Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect	level							Drainage
		Percent								
		Slope Length								
Depth to...	Mottles									Effective Texture (indicate below)
	Gley									
	Water Table		10 cm							
	Carbonates									
	Bedrock									
Soil Horizon Description	1	Depth from zero	>100	% CF		% CF		% CF		% CF
		Texture	fibric organic							
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime		wet							
	Drainage		poor							

Plant Species List - Page 2

Dicot Herbs - Asteraceae	1	2	3	4	5	6
Common Yarrow (*Achillea millefolium*)						
White Snakeroot (*Ageratina altissima*)						
Com. Ragweed (*Ambrosia artemisiifolia*)						
Field [illegible]wtoes (*Antennaria neglecta*)						
Artem[illegible]						
Com[illegible] Burdock (*Arctium minus*)						
Nodding Beggar-ticks (*Bidens cernua*)						
Devil's Beggar-ticks (*Bidens frondosa*)						
Spotted Knapweed (*Centaurea biebersteinii*)						
Brown Knapweed (*Centaurea jacea*)						
Chicory (*Cichorium intybus*)						
Canada Thistle (*Cirsium arvesnse*)						
Bull Thistle (*Cirsium vulgare*)						
Horseweed (*Conyza canadensis*)						
Daisy Fleabane (*Erigeron annus*)						
Philadelphia Fleabane (*Erig. philadelphicus*)						
Erigeron						
Joe-pye-weed (*Eupatorium maculatum*)						
Boneset (*Eupatorium perfoliatum*)						
Large-leaved Aster (*Eurybia macrophylla*)						
Flat-top Goldenrod (*Euthamia gramnifolia*)						
Orange Hawkweed (*Hieracium aurantiacum*)						
Field Hawkweed (*Hieracium caespitosum*)						
Hieracium						
Elecampane (*Inula helenium*)						
Prickly Lettuce (*Lactuca serriola*)						
Lactuca canadensis	X					
Ox-eye Daisy (*Leucanthemum vulgare*)						
Pineapple-weed (*Matricaria discoidea*)						
Tall White Lettuce (*Prenanthes altissima*)						
Black-eyed Susan (*Rudbeckia hirta*)						
Tall Goldenrod (*Solidago altissima*)						
Blue-stem Goldenrod (*Solidago caesia*)						
Canada Goldenrod (*Solidago canadensis*)						
Zig-zag Goldenrod (*Solidago flexicaulis*)						
Giant Goldenrod (*Solidago gigantea*)						
Early Goldenrod (*Solidago juncea*)						
Gray Goldenrod (*Solidago nemoralis*)						
Solidago						
Field Sow-thistle (*Sonchus arvensis*)						
Sonchus						
Heart-leaf Aster (*Symph. cordifolium*)						
Heath Aster (*Symphyotrichom ericoides*)						
Tall White Aster (*Symph. lanceolatum*)						
Cal[illegible]ster (*Symphyotrichum lateriflorum*)						
N[illegible]and Aster (*Symph. novae-angliae*)						
Pu[illegible]em Aster (*Symph. puniceus*)						
Common Tansy (*Tanacetum vulgare*)						
Common Dandelion (*Taraxacum officinale*)						
Com. Goatsbeard (*Tragopogon pratensis*)						
Coltsfoot (*Tussilago farfara*)						
Other Dicot Herbs						
White Baneberry (*Actaea pachypoda*)						
Red Baneberry (*Actaea rubra*)						
Tall Agrimony (*Agrimonia gryposepala*)						
Garlic Mustard (*Alliaria petiolata*)						
Green Amaranth (*Amaranthus retroflexus*)						
Hog-peanut (*Amphicarpa bracteata*)						
Pearly Everlasting (*Anaphalis margaritacea*)						
Canada Anemone (*Anemone canadensis*)						
Ivy Hepatica (*Anemone acutiloba*)						
Thimbleweed (*Anemone virginiana*)						
Purple Angelica (*Angelica atropurpurea*)						
Indian Hemp (*Apocynum cannabinum*)						
Wild Sarsaparilla (*Aralia nudicaulis*)						
Spikenard (*Aralia racemosa*)						
Wild Ginger (*Asarum canadense*)						
Swamp Milkweed (*Asclepias incarnata*)						
Common Milkweed (*Asclepias syriaca*)						
Yellow Rocket (*Barbarea vulgaris*)						
Black Mustard (*Brassica nigra*)						
Marsh-marigold (*Caltha palustris*)						
Shepherd's Purse (*Capsella bursa-pastoris*)						
Cutleaf Toothwort (*Cardamine concatenata*)						
Toothwort (*Cardamine diphylla*)						
P[illegible]itter-cress (*Cardamine pensylvanica*)						
C[illegible]ine						

Dicot Herbs	1	2	3	4	5	6
Blue Cohosh (*Caulophyllum thalictroides*)						
Mouse-ear Chickweed (*Cerastium fontanum*)						
Turtlehead (*Chelone glabra*)						
Spotted Water-hemlock (*Cicuta maculata*)						
Water-hemlock (*Cicuta virosa*)						
Enchanter's Nightshade (*Circaea lutetiana*)						
Carolina Spring Beauty (*Claytonia caroliniana*)						
Virginia Spring Beauty (*Claytonia virginica*)						
Virgin's-bower (*Clematis virginiana*)						
Field Bindweed (*Convolvulus arvensis*)						
Dog-strangling Vine (*Cynanchum rossicum*)						
Wild Carrot (*Daucus carota*)						
Deptford Pink (*Dianthus armeria*)						
Squirrel-corn (*Dicentra canadensis*)						
Wild Teasel (*Dipsacus fullonum*)						
Wild Cucumber (*Echinocystis lobata*)						
Viper's Bugloss (*Echium vulgare*)						
Northern Willow-herb (*Epilobium ciliatum*)						
Hairy Willow-herb (*Epilobium hirsutum*)						
Small-fl. Willow-herb (*Epilobium parviflorum*)						
Epilobium						
Worm Mustard (*Erysimom cheiranthoides*)						
Euphorbia						
Hemp Nettle (*Galeopsis tetrahit*)						
Wild Madder (*Galium mollugo*)						
Marsh Bedstraw (*Galium palustre*)						
Sweet-scented Bedstraw (*Galium triflorum*)						
Galium						
Herb-robert (*Geranium robertianum*)						
Yellow Avens (*Geum aleppicum*)						
White Avens (*Geum canadense*)						
Dame's Rocket (*Hesperis matronalis*)						
Virg. Water-leaf (*Hydrophyllum virginianum*)						
Com. St. John's-wort (*Hypericum perforatum*)						
Spotted Jewelweed (*Impatiens capensis*)						
Wood Nettle (*Laportea canadensis*)						
Motherwort (*Leonurus cardiaca*)						
Field Peppergrass (*Lepidium campestre*)						
Eur. Gromwell (*Lithospermum officinale*)						
Butter & Eggs (*Linaria vulgaris*)						
Great Lobelia (*Lobelia siphilitica*)						
Lobelia						
Cut-leaf Bugleweed (*Lycopus americanus*)						
Northern Bugleweed (*Lycopus uniflorus*)						
Fringed Loosestrife (*Lysimachia ciliata*)						
Moneywort (*Lysimachia nummularia*)						
Lysimachia						
Purple Loosestrife (*Lythrum salicaria*)						
Black Medick (*Medicago lupulina*)						
Alfalfa (*Medicago sativa*)						
White Sweet-clover (*Melilotus alba*)						
Yellow Sweet-clover (*Melilotus officinalis*)						
Wild Mint (*Mentha arvensis*)						
Wild Bergamot (*Monarda fistulosa*)						
Small Forget-me-not (*Myosotis laxa*)						
Forget-me-not (*Myosotis scorpioides*)						
Water-cress (*Nasturtium officinale*)						
Com. Evening-primrose (*Oenothera biennis*)						
Sweet-cicely (*Osmorhiza berteni*)						
Yellow Wood-sorrel (*Oxalis stricta*)						
Wild Parsnip (*Pastinaca sativa*)						
English Plantain (*Plantago lanceolata*)						
Common Plantain (*Plantago major*)						
Rugel's Plantain (*Plantago rugelii*)						
May-apple (*Podophyllum peltatum*)						
Pale Smartweed (*Polygonum lapathifolium*)						
Lady's-thomb (*Polygonum persicaria*)						
Polygonum						
Polygonum						
Rough Cinquefoil (*Potentilla norvegica*)						
Rough-fruited Cinquefoil (*Potentilla recta*)						
Common Cinquefoil (*Potentilla simplex*)						
Potentilla						
Heal-all (*Prunella vulgaris*)						
Shinleaf (*Pyrola elliptica*)						
Kidney-leaf Buttercup (*Ranunculus abortivus*)						
Tall Buttercup (*Ranunculus acris*)						
Hooked Buttercup (*Ranunculus recurvatus*)						
Ranunculus						
Sheep Sorrel (*Rumex acetosella*)						
Curly-leaf Dock (*Rumex crispus*)						
Bitter Dock (*Rumex obtusifolius*)						
Bloodroot (*Sanguinaria canadense*)						
Black Snakeroot (*Sanicula marilandica*)						
Bouncing Bet (*Saponaria officinalis*)						
Marsh Skullcap (*Scutellaria galericulata*)						
Mad Dog Skullcap (*Scutellaria lateriflora*)						

Dicot Herbs	1	2	3	4	5	6
White Campion (*Silene latifolia*)						
Bladder Campion (*Silene vulgaris*)						
Hemlock Water-parsnip (*Sium suave*)						
Black Nightshade (*Solanum ptychanthum*)						
Grassleaf Stitchwort (*Stellaria graminea*)						
Common Chickweed (*Stellaria media*)						
Early Meadow-rue (*Thalictrum dioicum*)						
Tall Meadow-rue (*Thalictrum pubescens*)						
Field Penny-cress (*Thlaspi arvense*)						
Foamflower (*Tiarella cordifolia*)						
Star-flower (*Trientalis borealis*)						
Red Clover (*Trifolium pratense*)						
White Clover (*Trifolium repens*)						
Trifolium						
Stinging Nettle (*Urtica dioica*)						
Greater Bladderwort (*Utricularia vulgaris*)						
Common Mullein (*Verbascum thapsus*)						
Blue Vervain (*Verbena hastata*)						
Water Speedwell (*Varon. anagallis-aquatica*)						
Common Speedwell (*Veronica officinalis*)						
Veronica						
Cow Vetch (*Vicia cracca*)						
Vicia						
Dog Violet (*Viola conspersa*)						
Yellow Violet (*Viola pubescens*)						
Com. Blue Violet (*Viola sororia*)						
Viola						
Lysimachia nummularia Fragaria virginia	X					

Turbine 83

Plant Species List

Trees & Shrubs	1	2	3	4	5	6
Conifers						
Balsam Fir *(Abies balsamea)*						
Common Juniper *(Juniperus communis)*	X					
Eastern Red Cedar *(Juniperus virginiana)*						
Tamarack *(Larix laricina)*		X				
White Spruce *(Picea glauca)*						
Black Spruce *(Picea mariana)*		X				
Jack Pine *(Pinus banksiana)*	X					
Red Pine *(Pinus resinosa)*	X					
Eastern White Pine *(Pinus strobus)*	X	X				
Scotch Pine *(Pinus sylvestris)*						
Canada Yew *(Taxus canadensis)*						
Eastern White Cedar *(Thuja occidentalis)*						
Eastern Hemlock *(Tsuga canadensis)*						
Deciduous						
Manitoba Maple *(Acer negundo)*						
Norway Maple *(Acer platanoides)*						
Red Maple *(Acer rubrum)*			✓			
Freeman's Maple *(Acer X freemanii)*						
Sugar Maple *(Acer saccharum)*						
Mountain Maple *(Acer spicatum)*						
Speckled Alder *(Alnus incana)*			X	✓		
Downy Serviceberry *(Amelanchier arborea)*						
Serviceberry *(Amelanchier sanguinea)*						
Yellow Birch *(Betula alleghaniensis)*						
White Birch *(Betula papyrifera)*			X			
Blue Beech *(Carpinus caroliniana)*						
Climbing Bittersweet *(Celastrus scandens)*						
Buttonbush *(Cephalanthus occidentalis)*						
Alt.-leaved Dogwood *(Cornus alternifolia)*						
Silky Dogwood *(Cornus amomum)*						
Bunchberry *(Cornus canadensis)*	X					
Gray dogwood *(Cornus racemosa)*						
Round-leaved Dogwood *(Cornus rugosa)*						
Red-osier Dogwood *(Cornus sericea)*						
Beaked Hazel *(Corylus cornuta)*						
English Hawthorn *(Crataegus monogyna)*						
Large-fruited Thorn *(Crataegus punctata)*						
Crataegus						
Crataegus						
Bush Honeysuckle *(Diervilla lonicera)*						
American Beech *(Fagus grandifolia)*						
Virginia strawberry *(Fragaria virginiana)*						
White Ash *(Fraxinus americana)*						
Black Ash *(Fraxinus nigra)*						
Green Ash *(Fraxinus pennsylvanica)*						
Winterberry *(Ilex verticilata)*			X	X		
Fly Honeysuckle *(Lonicera canadensis)*						
Glaucous Honeysuckle *(Lonicera dioica)*						
Morrow's Honeysuckle *(Lonicera morrowii)*						
Tartarian Honeysuckle *(Lonicera tatarica)*						
Common Apple *(Malus pumila)*						
Sweet Gale *(Myrica gale)*				X		
Ironwood *(Ostrya virginiana)*						
Thicket-creeper *(Parthenocissus inserta)*						
Ninebark *(Physocarpus opulifolius)*						
Balsam Poplar *(Populus balsamifera)*						
Large-tooth Aspen *(Populus grandidentata)*						
Trembling Aspen *(Populus tremuloides)*						
Pin Cherry *(Prunus pensylvanica)*						
Black Cherry *(Prunus serotina)*						
Choke Cherry *(Prunus virginiana)*						
Prunus						
White Oak *(Quercus alba)*						
Bur Oak *(Quercus macrocarpa)*						
Red Oak *(Quercus rubra)*						
Alder Buckthorn *(Rhamnus alnifolia)*						
Common Buckthorn *(Rhamnus cathartica)*						
Staghorn Sumac *(Rhus hirta)*	X					
Wild Black Currant *(Ribes americanum)*						
Prickly Gooseberry *(Ribes cynosbati)*						
Swamp Black Currant *(Ribes lacustre)*						
Red Currant *(Ribes rubrum)*						
Ribes						
Prickly Rose *(Rosa acicularis)*						
Smooth Rose *(Rosa blanda)*						
Rosa						
Com. Blackberry *(Rubus allegheniensis)*						
Wild Red Raspberry *(Rubus idaeus)*						
Black Raspberry *(Rubus occidentalis)*						
Purple-fl. Raspberry *(Rubus odoratus)*						

Tree & Shrubs	1	2	3	4	5	6
Deciduous						
Dwarf Raspberry *(Rubus pubescens)*						
Rubus hispidus				X		
Peach-leaved Willow *(Salix amygdaloides)*						
Bebb's Willow *(Salix bebbiana)*						
Pussy Willow *(Salix discolor)*				X		
Missouri Willow *(Salix eriocephala)*						
Sandbar Willow *(Salix exigua)*						
Shining Willow *(Salix lucida)*						
Slender Willow *(Salix petiolaris)*						
Salix						
Hybrid Crack Willow *(Salix X rubens)*						
Black-berried Elder *(Sambucus nigra)*						
Red-berried Elder *(Sambucus racemosa)*						
Buffaloberry *(Shepherdia canadensis)*						
Amer. Mountain Ash *(Sorbus americana)*						
Narrow Meadow-sweet *(Spiraea alba)*						
Common Lilac *(Syringa vulgaris)*						
Basswood *(Tilia americana)*						
Poison-ivy *(Toxicodendron rydbergii)*	X					
White Elm *(Ulmus americana)*						
Low Blueberry *(Vaccinium angustifolium)*	X					
Maple-leaf Viburnum *(Viburnum acerifolium)*						
Hobblebush *(Viburnum lantanoides)*						
Nannyberry *(Viburnum lentago)*						
Downy Arrow-wood *(Vib. rafinesquianum)*						
Riverbank Grape *(Vitis riparia)*						
Am. Prickly-ash *(Zanthoxylum americanum)*						
Gaylussacia	X					
Chamaedaphne caly		X	✓			
Kalmia angust		X				
Ledum groen		X				
Viburnum cass.			X	X		
Arctostaph	X					
Ferns & Allies						
Lady Fern *(Athyrium filix-femina)*						
Rattlesnake Fern *(Botrychium virginianum)*						
Bulbet Bladder Fern *(Cystopteris bulbifera)*						
Spin. Wood Fern *(Dryopteris carthusiana)*						
Crested Wood Fern *(Dryopteris cristata)*						
Marginal Wood Fern *(Dryopteris marginalis)*	✓					
Dryopteris						
Ostrich Fern *(Matteuccia struthiopteris)*						
Sensitive Fern *(Onoclea sensibilis)*						
Cinnamon Fern *(Osmunda cinnamomea)*						
Interrupted Fern *(Osmunda claytoniana)*						
Royal Fern *(Osmunda regalis)*						
Christmas Fern *(Polystichum acrostichoides)*						
Eastern Bracken-fern *(Pteridium aquilinum)*	X					
Marsh Fern *(Thelypteris palustris)*						
Woodwardia virginica		X				
Polypodium virg	X					
Field Horsetail *(Equisetum arvense)*						
Scouring-rush *(Equisetum hyemale)*						
Variegated Horsetail *(Equisetum variegatum)*						
Equisetum						
Ground-cedar *(Lycopodium digitatum)*						
Shining Clubmoss *(Lycopodium lucidulum)*						
Ground-pine *(Lycopodium obscurum)*						
Lycopodium dendro	✓					

Graminoids	1	2	3	4	5	6
Grasses						
Giant Redtop *(Agrostis gigantea)*						
Redtop *(Agrostis stolonifera)*						
Awnless Brome *(Bromus inermis)*						
Bromus						
Blue-joint Grass *(Calamagrostis canadensis)*			X	X		
Orchard Grass *(Dactylis glomerata)*						
Poverty Oat Grass *(Danthonia spicata)*						
Quack Grass *(Elymus repens)*						
Virginia Wild Rye *(Elymus virginicus)*						
Elymus						
Fowl Manna Grass *(Glyceria striata)*						
Glyceria canadensis			X			
Rice Cut Grass *(Leersia oryzoides)*						
Tall Fescue *(Lolium arundinaceum)*						
Muhlenbergia						
Witch-grass *(Panicum capillare)*						
Panicum						
Reed Canary Grass *(Phalaris arundinacea)*						
Timothy *(Phleum pratense)*						
Common Reed *(Phragmites australis)*						
Canada Blue Grass *(Poa compressa)*						
Fowl Meadow Grass *(Poa palustris)*						
Kentucky Bluegrass *(Poa pratensis)*						
Deschampsia flex	✓					
Sedges						
Drooping Wood Sedge *(Carex arctata)*						
Golden-fruited Sedge *(Carex aurea)*						
Graceful Sedge *(Carex gracillima)*						
Inland Sedge *(Carex interior)*						
Bladder Sedge *(Carex intumescens)*						
Lake-bank Sedge *(Carex lacustris)*						
Hop Sedge *(Carex lupulina)*						
Pennsylvania Sedge *(Carex pensylvanica)*						
Awl-fruited Sedge *(Carex stipata)*						
Fox Sedge *(Carex vulpinoidea)*						
Carex lasiocarpa			X			
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Carex						
Cyperus						
Redroot Spike-rush *(Eleocharis erythropoda)*						
Eleocharis						
Hard-stem Bulrush *(Schoenoplectus acutus)*						
Three-square Bulrush *(Sch. pungens)*						
Soft-stem Bulrush *(Sch. tabernaemontani)*						
Dark-green Bulrush *(Scirpus atrovirens)*						
Wool-grass *(Scirpus cyperinus)*			X			
Sparganium chlorocarpum			X			
Dulichium			✓			
Erioph virg.			X			
Other Graminoids						
Broad Bur-reed *(Sparganium eurycarpum)*						
Narrow-leaved Cattail *(Typha angustifolia)*						
Broad-leaved Cattail *(Typha latifolia)*						
Broad-leaved Cattail *(Typha X glauca)*						
Articulated Rush *(Juncus articulatus)*						
Soft Rush *(Juncus effusus)*						
Path Rush *(Juncus tenuis)*						
Juncus canadensis			X			
Juncus						

***D - Dominant**: represented by large numbers; generally forming >10% ground cover or >25% vegetation cover in any one stratum*

***F - Fairly common (=Abundant in ELC)**: generally widespread represented by fairly large numbers of individual clumps; usually forming >10% ground cover*

***U - Uncommon (=Occasional in ELC)**: present as widespread scattered individuals or represented by one or more clumps of many individuals (most species will fall into this category)*

***R - Rare**: represented in the polygon by less than about five individuals or small clumps*

Project:	Henvey Turbine 83	1	S			Jack Pine Barren	4	S	P	8		SWT	
Date:	Oct 22 / 2014	2	S	D	7	Tamarack - Chain Fern	5						
Surveyors:	JK + JD	3	S	D	6	Alder Thicket Swamp	6						

Harry Woodpecker

ELC Form

Project: Henvey Inlet **Date:** Oct 30 2014 **Start Time:** 2:30 **End Time:** 3:30

Field Staff: JK, OH **Infrastructure:** Access road to T82 & T82

Map No.: 44 South **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☒	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☒	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☒	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☒ FOM	White Birch-White Pine Forest	☐	☐	Low Shrub		
☐		☐	☒	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☒	☐	Mixed Tree		

Dominant/Notable Species: See ELC CARD 524250 5074720

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐ SWM		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC Card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 524290 5074700

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☒ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet
Field Staff: JK, OH
Map No.: 44 South
Date: Oct 30, 2014 **Start Time:** 2:30 pm **End Time:** 3:30 pm
Infrastructure: Access Road and TB2
UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☒ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See Map for delineations

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☒ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☒		☐	☐	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack, see map for delineation

Inclusion/Complex:

ELC Code:	Community Naree	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Laaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☒ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☒	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☒	Deciduous Tree		
☐		☐	☒	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder BETPAP PINSTROB, ACERUBR
several snags present here and near OH10

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixerl Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

1/2

AECOM

ELC Form

Project: Henvey Inlet **Date:** OCT 30, 2014 **Start Time:** 2:30 **End Time:** 3:30

Field Staff: JK, OH **Infrastructure:** Access Road from T82 to T36

Map No.: 44 South, past T82 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
◉ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: same vegetation and coverage.

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
◉ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	◉	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	◉	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack, leatherleaf, jack pine, white spruce

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
◉ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	◉	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	◉	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		◉	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: tamarack, cotton grass, sheep laurel, leatherleaf

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
~~◉ SWT3-1~~	~~Alder Organic Thicket Swamp~~	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
◉ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Low Shrub		
☐		◉	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	◉	Mixed Tree		

Dominant/Notable Species: Tamarack, winterberry, mountain holly, [illegible], white pine, [illegible] 524730 5079830

Inclusion/Complex: marsh habitat camp Mbian breeding habitat

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
◉ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	◉	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	◉	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		◉	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: tamarack, cotton grass, sheep laurel, leatherleaf

Inclusion/Complex:

Codes HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Oct 30, 2014 **Start Time:** 2:30 pm **End Time:** 3:30 pm

Field Staff: JK, DH **Infrastructure:**

Map No.: 544 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☒ FOC 1-2	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☒	☒	Coniferous Tree	2	4
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject
	ASK JAMES KANSTRA FOR PHOTOS		

Incidental Wildlife Observations:

- Massasauga snake

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Avoid SWT3-7

Avoid confirmed Massasauga gest. / hiber. site (see Utms)

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	OCT 30, 2014	**Map No.:**	44 South
Field Staff:	JK, OH	**Infrastructure:**	ACCESS ROAD from T32 to T36
Start Time:	2:30	**End Time:**	3:30
Weather:	Overcast, 6°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Dsprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		✓		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	✓		524735 5074940	Water/wetland habitat: marshy habitat beside SWT3-7 Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		✓		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		✓		
Rocky island or peninsula:		✓		
Mudflat present:		✓		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		✓		Indicator:
Evidence of mineral lick:		✓		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		✓		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		✓		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		✓		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		✓		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		✓		
Massasauga gestation habitat:	✓		524787 5074815	Observed Massasauga snake!! @ 3:30 pm (hibernacula?) on RBT3-2
Skink Habitat/Nesting Area				
Forest with cover objects:	✓		RBT3-2	
Barren with cover objects:	✓		RBT3-2	
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		✓		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		✓		
Cliffs and Talus Slopes *Tree cover but less than 60%		✓		
Old Growth Forest		✓		
Rare Forest Type – Jack Pine		✓		
Rare Forest Type – White Oak		✓		
Rare Forest Type – White Oak		✓		

Photo #	Location or Subject	Photo #	Location or Subject
	ASK JAMES RAMSTRA		

Incidental Wildlife Dbservations:

Moose scat ← 524975 5074794 → and Bear Grubbing
Hairy woodpecker flying over

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

avoid Massaugaga gestation habitats along access road
TR2 should be moved away from OAO and SWT other potential habitat for amph, turtles, moose, and bats. (See map)
TR2 should be moved away from BOT2-1 (potentially suitable massauaga hibernaculum)

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 30, 2019	**Map No.:**	167 South
Field Staff:	SK, OH	**Infrastructura:**	ACCESS ROAD and T82
Start Time:	9:30	**End Time:**	2:15
Weather:	-		

beaverpond

(3) 524563 / 5075017 Large OAO suitable for amph. breeding habitat, turtle nesting/overwintering, (photos taken)

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	✓		There are suitable habitats →	Water/wetland habitat: (1) scattered pools in SWM (see ELC CARD + MAP)
				Soil/peat: (2) Large vernal pool in RBT → 524545 5074390 (photos) + marked on map
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:	✓		524235 5074695	Large white pine w/ lots of cavities; lots of snags in FOM → 2 BAT SAR HABITAT
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine: No cave or mine		✓	524563 5075017	Near OAO and in SWT3-1 → lots of snags present.
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	✓		524625 5074945	in BOT2-1 near T82
Massasauga gestation habitat:	✓	(1) (2)	524450 5074740 524520 5074870	Jack Pine / Rock Barren
Skink Habitat/Nesting Area				
Forest with cover objects:	✓		Rock Barrens in general may contain skink habitat	
Barren with cover objects:	✓			
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:	✓		524560 5075005	in FOM which grades down into SWT, evidence of heavy grazing

Turbine 83

Henvey Inlet - SWH & SAR Habitat Assessment Form

AECOM

**Based on SWHTG Ecoregion E5 Criterion Schedule

Date: October 22/2014 | Map No.: S44 Henvey
Field Staff: Ramston & Dorman | Location: Turbine 83
Weather Conditions: clear 10°C | ELC Polygons: SWT, RBT, BOT
Start Time: 14:40 | End Time:

If any of the features listed below is identified, delineate it on the field map

Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat
(FET1, FOC, FOM, FOD, SWC, SWM, SWD)

Nest bowls present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____ Number of nests: _____
Description of nests (location, e.g. in tree/on built structure; material; evidence of recent use; birds present):

Description of habitat (note dominant tree species):

Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Breeding
(CUM1, CUT1, MAM, MAS, SAS1, SAM1, SAF1, SWD1, SWD2, SWD3, SWD4, SWT1, SWT2, SWT3, OAO, SA, FOC, FOM, FOD, SWC, SWM, SWD,BOO1, FEO1)

Standing water present: ☐ No ☒ Yes (*Photograph and complete form*)
Aquatic food supply present (invertebrates/vegetation): ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Water depth (m): 2 % open water: _____ % emergent vegetation: _____
Description of standing water (permanent pool, evidence of annual spring flooding, etc.): Edge of large pond in Marsh + Fen - Good Potential Breeding Turtle Habitat
Area and soil/substrate of shoreline habitat:

Type of cover in open water habitat: Sedge Fen surrounds open water, shallows
Type and abundance of cover in surrounding habitat: mostly Tall Fen, Rock Barren
Presence of pondweeds, milfoil and/or yellow water lily: YES
Presence of peat:
Evidence of use by waterfowl, amphibians, turtles (e.g. broken eggs), marsh breeding birds: NO

Colonial Nesting Bird Breeding Habitat (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon)
(CUM1, CUT1, CUS, BLO1, BLS1, BLT1, CLO1, CLS1, CLT1)

Eroding bank, sandy hill, steep slope, cliff or rock face present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:
Evidence of use by swallows or falcons (provide number of nests):

Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area/SAR Snakes
(BBO1, BBO2, BBS1, BBS2, BBT1, BBT2, SDO1, SDS2, SDT1, MAM1, MAM2, MAM3, MAM4, MAM5)

Shoreline of lake, large river or large wetland present: ☐ No ☒ Yes (*Photograph and complete form*)
Rocky island or peninsula present: ☒ No ☐ Yes (*Photograph and complete form*)
Mudflat present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs: _____
Description of habitat (size of rocky outcrop/mudflat, substrate/soil type, and abundance of cover): wetland present along large lake. Potential habitat but not matching criterion schedule. cobbles

Seeps and Springs/Mineral Licks
(FOC, FOM, FOD, SWC, SWM, SWD)

Evidence of seep or spring: ☒ No ☐ Yes (*Photograph and complete form*)
Description (e.g. indicator sp):

Evidence of mineral lick: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Describe substrate:

Mast Producing Areas/SAR Birds
(FOD, FOC, FOM, SWC, SWM, SWD)

Forest: ☒ No ☐ Yes (*Photograph and complete form*)
with openings and/or edges: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Mast producing species present:

Bat Hibernacula
(Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)

Caves or mine present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by bats:

Mammal Denning Sites
(FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)

Wooded/aquatic habitat present: ☐ No ☒ Yes (*Photograph and complete form*)
Dens present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and/or evidence of use by mammals:

Reptile Hibernacula/SAR Snakes
(BO, MA, FO, RB, CUM, BBO)

Fissured rock/talus/debris pile/alvar/wetlands(with Sphagnum moss or sedge hummock) present:
☐ No ☒ Yes (*Photograph and complete form*)
UTMs: 524615 / 5074570 Likelihood to extend below frost line:
Description of fissure or stone pile (composition/material, dimensions, etc.): Tamarack - Cham Fen
Bog w/ thick Sphagnum - Potential MASS hibernation site
Description of surrounding habitat (type & abundance of cover, evidence of disturbance, etc.):

Lizard Nesting Area

Forest with cover objects: ☐ No ☒ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and cover objects: Jack Pine Barrens, some rock cover - potential Slender habitat

SAR Birds (with human associations)

Chimneys present: ☒ No ☐ Yes (*Photograph and complete form*)
Barns and/or bridges present: ☒ No ☐ Yes (*Photograph and complete form*)
UTMs:
Description of habitat and nests observed:

Late Winter Moose Habitat

Conifer Stands >50 ha: ☒ No ☐ Yes (*Photograph and complete form*)
Dominated by trees >10m tall: ☒ No ☐ Yes (*Photograph and complete form*)
Deep soils: ☒ No ☐ Yes (*Photograph and complete form*)
Percent canopy closure:

Turbine 83

Rare Vegetation Community	Present (Y/N)	Notes/Description
Shallow Atlantic Coastal Marsh		
Cliffs and Talus Slopes (Tree cover but less than 60%)		
Rock Barren (Tree cover but less than 60%)		
Old Growth Forest		
Bog		
Rare Forest Type - Jack Pine	Y	
Rare Forest Type - Red Spruce		
Rare Forest Type – White Oak		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

River Otter – dived up along on North above 524640 / 5074460
Beaver evidence on ai
Red Squirrel
Red-br. Nuthatch

Other Observations:

HENVEY INLET FIELD MAPS

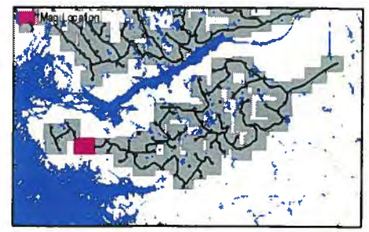
Map ID: HNV South 45

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:
SWCA-2
Potential Amp Breeding
MASS Hibernation

10/20/2014

0 25 50 100
Meters
1:2,500

ELC Form

Project: Henvey Inlet
Field Staff: JK, OH
Map No.: HNV South 45

Date: Oct 30, 2014
Start Time: 9:00
End Time: 11:00
Infrastructure: Access Road
UTMs: See UTMs below for each polygon

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree	2-3	2
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: 523680 E 5074725 N
Inclusion/Complex: BOT scattered throughout

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Black Spruce, Sheep laurel, leatherleaf, tamarack
523720E 5074740 N
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree	2-3	1
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine dominant, less BETPAPY, ACERUBR
523675E 5074695 N
Inclusion/Complex:

ELC Code:	Community Name	Plant Form Dominant	Plant Form Present	Plant Form Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack, leatherleaf, sheep laurel
523620E 5074715 N
Inclusion/Complex:

Code HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m
CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** Oct 30, 2014 **Start Time:** 9:00 **End Time:** 11:00

Field Staff: JK, OH **Infrastructure:** Access Road

Map No.: 45 South **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	●	Graminoid		
● SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	■	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		●	☐	Tall Shrub (Alder)		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: (WINTERBERRY) Alder > CORSER 524000 502700 Heavy grazing by moose on CORSER1

Inclusion/Complex:

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☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

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☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet
Field Staff: SK, OH
Map No.: 45 South
Date: Oct 30, 2014
Start Time: 9:00
End Time: 11:00
Infrastructure: access road
UTMs:

ELC Code:	Community Name	Plant Form Dominant	Present	Form	HT	CVR
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		●	☐	Coniferous Tree	3	3
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: LAR LARI > PICMARI 529035 504725 SEE ELC CARD
Inclusion/Complex:

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3/3

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	Oct 30, 2014	**Map No.:**	HNV 45 South
Field Staff:	SL, DH	**Infrastructure:**	Access road to T82
Start Time:	9:00	**End Time:**	11:30
Weather:	Overcast 90%, 6°C, No rain		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:	Y		524085 5074725	Water/wetland habitat: In SWC4-2, extensive vernal pool (5m x 20m x >30 cm deep) Soil/peat: organic. Sp. present: Royal fern, Moss, sedge, tamaracks, lots of microhabitat diversity
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC, FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD, FOM, FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N	Not observed	
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:	Y		524085 5074725	SWC4-2 ⇒ same as amph. breeding habitat above
Massasauga gestation habitat:	Y		~~See UTM point~~	523640 E 5074865 N
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:	Y			
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine	Y		everywhere refer to	map for Jack Pine Barren delineations
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject
	– ask James Kamstra for photos		

Incidental Wildlife Observations:

Common Raven
Red-breasted Nuthatch
Pine Grosbeak
Grouse (scat evidence) 523867 E 5074708 N
Red Squirrel (heard chatter)
Moose (scat endence) 523645E 5074928N & 523895E 5074711N
Bear grubbing site 523735 E 5074723 N
– Woodpecker cavity in mature pine 524052 5074698

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

~~None~~
Avoid potential amphibian breeding / massasauga hibernaculm site in SWC4-2

Other Comments/Observations:

None

ELC Community Description and Classification

Map 45 south

Map #: S45	Polygon:
Surveyor(s): JK, OH	Date: Oct 30, 2019
Time start: 11:30 finish: 12:15	
UTMZ:	UTMZ:
UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☐ Bottomland ☐ Terrace ☐ Valley Slope ☑ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☑ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☑ Forb ☐ Lichen ☑ Bryophyte ☐ Deciduous ☑ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☑ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☐ Surficial Dep. ☑ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	LARLAR1 > PICMAR1
2	3	3	LARLAR1 > ALNINCA > ILLVERT
3	3	3	OSMREGA = KALANGU
4	0	4	Moss (Sphagnum sp.)

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	N	N	N
BA:	Deadfall / Logs:	O	N	N	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Tamarack organic coniferous swamp type	Code:	SWC4-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes: * Potential Amphibian breeding habitat and Nassauga hibernacula *

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

			Pit/Augar #				Summary
Site Metrics	UTM		Zone				Moisture Regime
			Easting				
			Northing				
	Slope		Position				
			Aspect				Drainage
			Percent				
			Slope Length				
Depth to...			Mottles				
			Gley				Effective Texture (indicate below)
			Water Table				
			Carbonates				
			Bedrock				
Soil Horizon Description	1		Depth from zero	% CF	% CF	% CF	% CF
			Texture				
	2		Depth from zero	% CF	% CF	% CF	% CF
			Texture				
	3		Depth from zero	% CF	% CF	% CF	% CF
			Texture				
	4		Depth from zero	% CF	% CF	% CF	% CF
			Texture				
			% Surface Stone/Rock				
			Moisture Regime				
			Drainage				

ELC
Community Description and Classification

Map #:		Polygon:	
Surveyor(s):	Date:	Time start:	
		finish:	
UTMZ:	UTMZ:	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
❑Terrestrial ❑Wetland ❑Aquatic	❑Organic ❑Mineral Soil ❑Parent Min. ❑Acidic Bedrk ❑Basic Bedrk ❑Carb. Bedrk	❑Lacustrine ❑Riverine ❑Bottomland ❑Terrace ❑Valley Slope ❑Tableland ❑Roll. Upland ❑Cliff ❑Talus ❑Crevice/Cave ❑Alvar ❑Rockland ❑Beach / Bar ❑Sand Dune ❑Bluff	❑Plankton ❑Submerged ❑Floating-LVD. ❑Graminoid ❑Forb ❑Lichen ❑Bryophyte ❑Deciduous ❑Coniferous ❑Mixed	❑Lake ❑Pond ❑River ❑Stream ❑Marsh ❑Swamp ❑Fen ❑Bog ❑Barren ❑Meadow ❑Prairie ❑Thicket ❑Savannah ❑Woodland ❑Forest ❑Plantation
Site ❑Open Water ❑Shallow Water ❑Surficial Dep. ❑Bedrock				
History ❑Natural ❑Cultural				
Cover ❑Open ❑Shrub ❑Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) *(>> Much Graater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

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CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Age	Mature	Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to ...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

HENVEY INLET FIELD MAPS

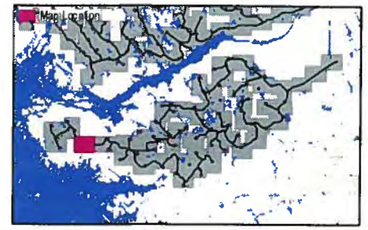
Map ID: HNV South 45

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification

Map #: S45 (Access Road to T81		Polygon:	
Surveyor(s): J. Kumstra, T. Shorney	Date: Oct 31	Time start: 3:00pm finish: 3:30pm	
UTMZ: 529525	UTMZ: 5074697	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☑ Marsh ☐ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☑ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☑ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	1	dead trees
2	3	1	Pin Stro = Lar Lam
3	5	2	Car utric > Cha Caly
4	7	3	Sphag

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	X Mid-Age	Mature	Old Growth

Ecosite:	Organic Shallow Marsh	Code:	MAS3
Vegetation Type:	Narrow-leaved Sedge organic shallow marsh Type	Code:	MAS3-5
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

Site Metrics	Pit/Auger #									Summary
	UTM	Zone								Moisture Regime
		Easting								
		Northing								
	Slope	Position								
		Aspect								Drainage
		Percent								
		Slope Length								
Depth to...	Mottles									
	Gley									Effective Texture (indicate below)
	Water Table									
	Carbonates									
	Bedrock									
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification	Map #: S46 (Between T78 and T79)		Polygon:	
	Surveyor(s): J. Kamstra, T. Shaney	Date: Oct. 21/2014	Time start: 12:30 pm finish: 3:00 pm	
	UTMZ: 523170	UTMZ: 5075420	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☑ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☑ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	3	2	Pin Stro = Aln inca = Carcar
2	4	4	ill Vert >> aln inca
3	6	3-4	osm orga > eri vrg > car. sp
4	7	4	Sphagnum : mosses

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	N	10-24	N	25-50	N	>50
	Standing Snags:	O	<10	N	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	SWT
Vegetation Type:	Winterberry organic Thicket Swamp	Code:	SWT3-7
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Form

Project: Henvey Inlet **Date:** Oct 29/2014 **Start Time:** 3:00 pm **End Time:** 4:00 pm

Field Staff: J. Ramstin, T. Shorney **Infrastructure:**

Map No.: 545 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☑ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fem Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species	Inclusion/Complex

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct. 29/2014	**Map No.:**	345 (781)
Field Staff:	J. Kamstra, T. Shorey	**Infrastructura:**	C
Start Time:	3:30 pm	**End Time:**	4:30pm
Weather:	overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stoppover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: Amphibian Breeding Habitat	Y		523445/5074615	Water/wetland habitat: sedge marsh - up to 1m in depth Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Community Description and Classification

Map #: S46 T81	Polygon:		
Surveyor(s): S. Kamstra, T. Stoney	Date: Oct. 29/2014	Time start: 3:50 pm	finish: 5:15 pm
UTMZ: 17T	UTMZ: 523355	UTMN: 5074697	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☑ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Badrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☐ Natural		☐ Crevice/Cava	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Baach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Deacription

Layer	HT	CVR	Species In Order of Decreaaing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Pin Stro >> Pin Bank = Bit Popy
2	3	2	Pin Stro >> Bit Popy
3	5	3	Gray Birch >> Sum Conn > Pte aquo
4	7	4	Moss = Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	A	O	R
BA:	Deadfall / Logs:	R	O	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	Pioneer	Young	Mid-Aga	Mature	Old Growth
	☐	☐	☒	☐	☐

Ecosite:	Dry-Fresh Pine Conifer Forest Ecosite	Code:	FOC 1d
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Commenta

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soila Ontario and ELC Soila Deacription

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regima
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (Indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Taxture					
		% Surface Stone/Rock					
		Moisture Regime					
		Drainage					

ELC Community Description and Classification

Map #: S 46	Polygon: Turbine 78	
Surveyor(s): J. Kamstra, T. [illegible]	Date: Oct 29/2014	Time start: / finish:
UTMZ: 522925	UTMZ: 5075635	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☑ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☑ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2-3	Pin STRO >> Pin Bank
2	5	2	JUN COM
3	6	2	Vaccangv
4	4	3-4	Cladina = Moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	R	R	O	
BA:	Deadfall / Logs:				

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	RBT 3a
Vegetation Type:	White Pine Rock Barren Treed.	Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basel Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics	UTM	Pit/Auger #					
		Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Grey					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description										Summary
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: 546		Polygon:	
Surveyor(s): J Kamstra, T Storey	Date: Oct. 29/2014	Time start: 11:00 am	finish:
UTMZ: 523023	UTMZ: 5075600	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☑ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Pinstro >> Larlar
2	3	3	Pinstro
3	5	4	Chacal > Kalang > Vacvir
4	7	4	Shrgen

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1.2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	O	O
BA:	Deadfall / Logs:	O	R	O	O

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☒ Mature ☐ Old Growth

Ecosite:		Code: BOTh
Vegetation Type:	White Pine Treed Bog	Code:
Inclusion:		Code:
Complex:		Code:

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Plt/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					Effective Texture (indicate below)
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC Community Description and Classification	Map #: S46 (T78 / T79 Access)		Polygon:
	Surveyor(s): J. Kamstra, T. Shoung	Date: Oct 29/2014	Time start: finish:
	UTMZ: 523195	UTMZ: 5075405	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☑ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☑ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	3	Lar Lar > Pin Str > Pic mari
2	3	2	Lar Lar = Pin Str
3	4	3	ill Vert > Cal angu = OSm Rega
4	7	4	Sphagnum = mosses

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stend Composition:	Size Class Analysis:	A	<10	A	10-24	A	25-50	R	>50
	Standing Snags:	N	<10	N	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	N	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☐ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:		Code:	SWC 4
Vegetation Type:	Tamarack conifer Swamp	Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification	Map #: S46 (Between T79-T81	Polygon:	
	Surveyor(s): J. Kamstra, T. Shorney	Date: oct. 29/2014	Time start: 2:30 Pm finish:
	UTMZ: 523400	UTMZ: 5075030	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☑ Graminoid ☑ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☐ Swamp ☑ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☑ Shallow Water ☐ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☑ Open ☐ Shrub ☐ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	2	dead trees
2	4	1	Pinstro = Lar Larry
3	5	2	eri Verg > woo Virg > cha cali
4	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	FEO1a
Vegetation Type:	Cottongrass/chainfern Fen	Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Plt/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				Effective Texture (indicate below)
		Gley				
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Community Description and Classification

Map #: 546	Polygon:	
Surveyor(s): J Kamstra, T Storey	Date: Oct. 29/2014	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Deacription

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Minaral Soil	☐ Riverine	☐ Submarged	☐ Pond
☐ Aquatic	☐ Parent Min.	☑ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slopa	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☐ Bedrock		☐ Cliff	☑ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Maadow
☐ Cultural		☐ Alvar		☐ Prairie
Covar		☐ Rockland		☑ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☑ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Deacription

Layer	HT	CVR	Species in Order of Decreaaing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2	4	4	Winterberry
3	5	2	Leatherleaf > Cranberry
4	5	4	S. Magnum Sp. : Moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☒ Mid-Age ☐ Mature ☐ Old Growth

Ecosita:	Organic Thicket Swamp Ecosite	**Coda:**	SWT3
Vegetation Type:	Winterberry Organic Thicket Swamp Ecosite	**Code:**	SWT3-7
Inclusion:		**Code:**	
Complex:		**Code:**	

Community Profile Diagram/Comments

Notes:

Tree Tally by Speciea

Prism Factor 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Plt/Auger #					
	UTM	Zone					**Molature Regime**
		Easting					
		Northing					
	Slope	Position					
		Aspect					
		Parcent					**Drainage**
		Slope Length					
Depth to...		Mottles					
		Gley					**Effective Texture (indicate below)**
		Water Table					
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Taxture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Taxture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Textura							
		% Surface Stone/Rock							
	Moistura Regime								
	Drainage								

ELC Community Description and Classification

Map #: 546		Polygon:	
Surveyor(s): J. Ramstead, T. Storey	Date: Oct. 29/2014	Time start:	finish:
UTMZ: 17T	UTMZ: 523430	UTMN: 5075320	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial	☑ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☑ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Min.	☑ Bottomland	☐ Floating-LVD.	☐ River
Site	☐ Acidic Bedrk	☐ Terrace	☑ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☑ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☑ Fen
☐ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☐ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☐ Rockland		☐ Thicket
☑ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☐ Treed		☐ Bluff		☐ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1			
2	5	2	Leatherleaf
3	5	4	Cottongrass > threeway sedge (> hair fern
4	7	4	Sphagnum

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:	Cottongrass Open Fen	Code:	FEO1a
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Grey					Effective Textura (indicate below)
		Water Table					
		Carbonates					
		Bedrock					
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	2	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	3	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
	4	Depth from zero	% CF	% CF	% CF	% CF	
		Texture					
		% Surface Stone/Rock					
	Moisture Regime						
	Drainage						

ELC Form

Project: Henvey Inlet **Date:** Oct. 29/2014 **Start Time:** 1:30 pm **End Time:**

Field Staff: J. Kamstra, T. Shorney **Infrastructure:**

Map No.: 546 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☑ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack, leatherleaf, V.ang chain fern, cranberry

Inclusion/Complex:

523550 5075380

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☑ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☑	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: See ELC card

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☑ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Jack Pine, Juniper

Inclusion/Complex:

523505 5075535

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☑ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Tamarack, winterberry, sphagnum

Inclusion/Complex:

523605 5074735

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Code **HT:** 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

ELC Form

Project: Henvey Inlet **Date:** Oct. 29/2014 **Start Time:** 10:00 am **End Time:**

Field Staff: J. Kamstra, T. Shorney **Infrastructure:**

Map No.: South 46 **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
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☐		☐	☒	Low Shrub		
☐		☒	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☒	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species Alnus, Chacaly **Inclusion/Complex**

17T 522982 5075037

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

Codes

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CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

Code **HT:** 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >8 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 29/2014	**Map No.:**	S46
Field Staff:	M. J. Lambert, T. Shorney	**Infrastructure:**	T78
Start Time:	10:00 am	**End Time:**	
Weather:	overcast, 5°C		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: Linear SWT3-1 through middle of site Pot Amph. habitat	Y			Water/wetland habitat: SWT 3-1 40cm depth Soil/peat: Sphagnum moss
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

- Evidence of bear grubbing 527917 5075600
- Moose droppings 527925 5075637
- " 523030 5075685
- " 523050 5075725
- DEJU, RBNU, BCCH, Hawk sp.
- Red squirrel
- Buck / moose droppings 523072 5075570

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

AECOM

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

Date:	Oct. 29/2014	**Map No.:**	S46 (T79)
Field Staff:	J. Kamstra. T. Slowney	**Infrastructure:**	
Start Time:	2:00 Pm.	**End Time:**	
Weather:	overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: FE community potential amphib	Y		523430 / 5075320	Water/wetland habitat: Fe, 50cm depth, humics Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

- CORA, DEJU, RBNU
Bear droppings - moss has been ripped up in the area
523313 5075325
- Hairy Woodpecker

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

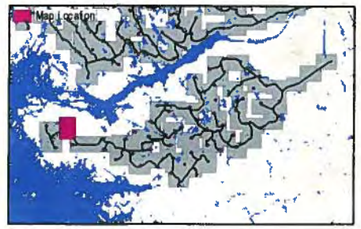
Map ID: HNV South 46

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

HENVEY INLET FIELD MAPS

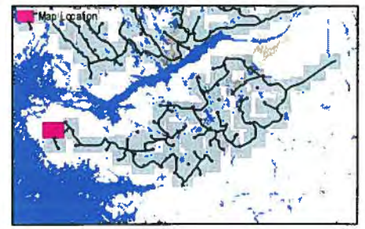
Map ID: HNV South 47

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

522857
5075233

10/20/2014

0 25 50 100
Meters
1:2,500

ELC Form

Project: Henvey Inlet

Field Staff: T. Sharney, J. Hardner

Map No.: 548 (T80

Date: Oct 30/2014 **Start Time:** 1:30 pm **End Time:** 3:30pm

Infrastructure:

UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD6-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ RBT3a	White Pine Barren	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Black Spruce

Inclusion/Complex:

522555/5075032

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes — HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

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ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
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Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Field Staff: T. Shorney, J. Hamilton

Map No.: 547 (T77)

Date: oct 30/2014 Start Time: 3:30Pm End Time: 4:30pm

Infrastructure:

UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOC1-2	White Pine FOC	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Black Spruce

Inclusion/Complex:

522352/5075460

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
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☑ SWS-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☑	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Leatherleaf, Sphagnum

Inclusion/Complex:

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☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
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☐		☐	☐	Dead Tree		
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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

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Dominant/Notable Species **Inclusion/Complex**

Cod

HT: **7** = <0.2 m **6** = >0.2 – 0.5 m **5** = >0.5 – 1 m **4** = >1 – 2 m **3** = >2 – **2** = >6 – 25 m **1** = >25 m

CVR: **0** = None **1** = 0% – 10% **2** = 10% – 25% **3** = 25% – 60% **4** = >60%

ELC Community Description and Classification	Map #: 547 (Access Road T8077)	Polygon: SWM5	
	Surveyor(s): T. Shorney, J Hamd	Date: Oct 30/2014	Time start: 3:13 PM finish: 4:30 pm
	UTMZ: 522494	UTMZ: 5075066	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☑ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☑ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☑ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Ace rubr > Bed Pyrus : Pin stro
2	3	7	Ace rubr > Ala inc
3	4	3	Winterberry > Ala inc
4	7	4	Sphagnum >> Cor Cana > Fra Virg

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	SWM5
Vegetation Type:	Red Maple-Conifer organic SWAMP type	Code:	SWM5-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
		Moisture Regime								
		Drainage								

ELC Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation
Site ☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock				
History ☐Natural ☐Cultural				
Cover ☐Open ☐Shrub ☐Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

									Summary
Site Metrics		Pit/Auger #							
	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...	Mottles								
	Gley								Effective Texture (indicate below)
	Water Table								
	Carbonates								
	Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 30/2014	**Map No.:**	548 (T80)
Field Staff:	T. Shorey, J Henderson	**Infrastructure:**	
Start Time:	1:35 pm	**End Time:**	3:30pm
Weather:			

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:				No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:				Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:				No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:				
Rocky island or peninsula:				
Mudflat present:				
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:				Indicator:
Evidence of mineral lick:				Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:				
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:				
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:				
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:				
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:				
Massasauga gestation habitat:				
Skink Habitat/Nesting Area				
Forest with cover objects:				
Barren with cover objects:				
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:				

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

*SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh				
Cliffs and Talus Slopes *Tree cover but less than 60%				
Old Growth Forest				
Rare Forest Type – Jack Pine				
Rare Forest Type – White Oak				
Rare Forest Type – White Oak				

Photo #	Location or Subject		Photo #	Location or Subject

Incidental Wildlife Observations:

- grouse drumming
- Chipmunk

Comments Regarding Proposed Infrastructure Relocation (Including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 30 / 2014	**Map No.:**	547 (T77)
Field Staff:	T Shorney, J Hamden	**Infrastructure:**	
Start Time:	3:30 PM	**End Time:**	4:30pm
Weather:	overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs		Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)					
Nest bowl:		N		No. and type of nests:	
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)					
Standing water: Potential Breeding Habitat	Y		522341 / 5075475	Water/wetland habitat: Soil/peat:	long, linear pool – Approx. 20–30 (SWM5-1)
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)					
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:	
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)					
Shoreline of large water body:		N			
Rocky island or peninsula:		N			
Mudflat present:		N			
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)					
Seep or spring:		N		Indicator:	
Evidence of mineral lick:		N		Substrate:	
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)					
Forest with mast producing sp:		N			
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)					
Abundance of cavity trees:		N			
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)					
Cave or mine:		N			
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)					
Den:		N			
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)					
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N			
Massasauga gestation habitat:		N			
Skink Habitat/Nesting Area					
Forest with cover objects:		N			
Barren with cover objects:		N			
Late Winter Moose Habitat (FOC)					
Conifer stand >50 ha with deep soils:		N			

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

ELC Form

Project: Henvey Inlet

Field Staff: T. Shorney, J. Hardmen

Map No.: 548 (T80

Date: Oct 30/2014 **Start Time:** 1:30 pm **End Time:** 3:30pm

Infrastructure:

UTMs:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ RBT3a	White Pine Barren	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Black Spruce

Inclusion/Complex:

522555/5075032

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
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☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Codes

HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 6 m 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** oct 30/2014 **Start Time:** 3:30Pm **End Time:** 4:30pm

Field Staff: J. Shorney, J. Hamilton **Infrastructure:**

Map No.: 547 (T77) **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ RBT3a	White Pine RBT	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☑	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Black Spruce

Inclusion/Complex:

522352/5075460

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ SWn5-1		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☑	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
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☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☑	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ FOC1-3		☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: White Pine, Jack Pine, Leatherleaf, Sphagnum

Inclusion/Complex:

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
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☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☑	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Code **HT:** 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

ELC Community Description and Classification	Map #: 547 (Access Road T8077)	Polygon: SWM5	
	Surveyor(s): T. Shorney, J Hamdt	Date: Oct 30/2014	Time start: 3:13 PM finish: 4:30 pm
	UTMZ: 522494	UTMZ: 5075066	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☑ Organic ☐ Mineral Soil ☐ Parent Min. ☐ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☐ Coniferous ☑ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☑ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☑ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Ace rubr > Bed Papy = Pin Strb
2	3	7	Ace rubr > Aln inc
3	4	3	Winterberry > Aln inc
4	7	4	Sphagnum >> Cor Cana > Fra Virg

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	A	<10	A	10-24	R	25-50	N	>50
	Standing Snags:	O	<10	O	10-24	N	25-50	N	>50
BA:	Deadfall / Logs:	A	<10	O	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☐ Mature	☐ Old Growth

Ecosite:		Code:	SWM5
Vegetation Type:	Red Maple-Conifer organic SWAMP type	Code:	SWM5-1
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

		Pit/Auger #							Summary
Site Metrics	UTM	Zone							Moisture Regime
		Easting							
		Northing							
	Slope	Position							
		Aspect							Drainage
		Percent							
		Slope Length							
Depth to...	Mottles								
	Gley								Effective Texture (indicate below)
	Water Table								
	Carbonates								
	Bedrock								
Soil Horizon Description	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC
Community Description and Classification

Map #:	Polygon:	
Surveyor(s):	Date:	Time start: / finish:
UTMZ:	UTMZ:	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐Terrestrial ☐Wetland ☐Aquatic	☐Organic ☐Mineral Soil ☐Parent Min. ☐Acidic Bedrk ☐Basic Bedrk ☐Carb. Bedrk	☐Lacustrine ☐Riverine ☐Bottomland ☐Terrace ☐Valley Slope ☐Tableland ☐Roll. Upland ☐Cliff ☐Talus ☐Crevice/Cave ☐Alvar ☐Rockland ☐Beach / Bar ☐Sand Dune ☐Bluff	☐Plankton ☐Submerged ☐Floating-LVD. ☐Graminoid ☐Forb ☐Lichen ☐Bryophyte ☐Deciduous ☐Coniferous ☐Mixed	☐Lake ☐Pond ☐River ☐Stream ☐Marsh ☐Swamp ☐Fen ☐Bog ☐Barren ☐Meadow ☐Prairie ☐Thicket ☐Savannah ☐Woodland ☐Forest ☐Plantation

Site
☐Open Water ☐Shallow Water ☐Surficial Dep. ☐Bedrock

History
☐Natural ☐Cultural

Cover
☐Open ☐Shrub ☐Treed

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) *(>> Much Greater Than; > Greater Than; = About Equal To)*
1			
2			
3			
4			

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	<10	10-24	25-50	>50
BA:	Deadfall / Logs:	<10	10-24	25-50	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐Pioneer ☐Young ☐Mid-Age ☐Mature ☐Old Growth

Ecosite:		Code:	
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

						Summary
Site Metrics		Plt/Auger #				
	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				
Soil Horizon Description	1	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	2	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	3	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
	4	Depth from zero	% CF	% CF	% CF	% CF
		Texture				
		% Surface Stone/Rock				
		Moisture Regime				
		Drainage				

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct. 30 / 2014	**Map No.:**	548 (T80)
Field Staff:	T. Shorey, J Hamilton	**Infrastructure:**	
Start Time:	1:35 pm	**End Time:**	3:30pm
Weather:			

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water:		N		Water/wetland habitat: Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

- grouse drumming
- chipmunk

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 30/2014	**Map No.:**	547 (777)
Field Staff:	T. Shorney, J Harnden	**Infrastructure:**	
Start Time:	3:30 PM	**End Time:**	4:30pm
Weather:	overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: Potential Breeding Habitat	Y		522341 / 5075475	Water/wetland habitat: long, linear pool – Approx. 20-30 (SWM5-1) Soil/peat:
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Comments Regarding Proposed Infrastructure Relocation (Including UTMs of suggested new locations):

Other Comments/Observations:

HENVEY INLET FIELD MAPS

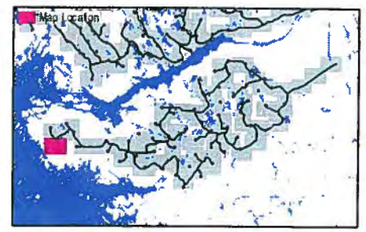
Map ID: HNV South 48

Proposed Layout

- Turbines L01R00
- Access Roads
- Construction Disturbance Area (50m)
- Turbine Pad (160m)

Environmental Layers

- Watercourse
- Wetland - Evaluated PSW
- Wetland - Evaluated Other
- Ecological Land Classification



FIELD NOTES:

10/20/2014

0 25 50 100

Meters

1:2,500

ELC Community Description and Classification

Map #: 548 (T103)	Polygon:		
Surveyor(s): T Sharpe,	Date: Oct 30/2014	Time start: 11:00 am	finish: 12:00 pm
UTMZ: 522716	UTMZ: 5074577	UTMN:	

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☑ Terrestrial	☐ Organic	☐ Lacustrine	☐ Plankton	☐ Lake
☐ Wetland	☐ Mineral Soil	☐ Riverine	☐ Submerged	☐ Pond
☐ Aquatic	☐ Parent Mtn.	☐ Bottomland	☐ Floating-LVD.	☐ River
Site	☑ Acidic Bedrk	☐ Terrace	☐ Graminoid	☐ Stream
☐ Open Water	☐ Basic Bedrk	☐ Valley Slope	☐ Forb	☐ Marsh
☐ Shallow Water	☐ Carb. Bedrk	☐ Tableland	☐ Lichen	☐ Swamp
☐ Surficial Dep.		☐ Roll. Upland	☐ Bryophyte	☐ Fen
☑ Bedrock		☐ Cliff	☐ Deciduous	☐ Bog
History		☐ Talus	☑ Coniferous	☐ Barren
☑ Natural		☐ Crevice/Cave	☐ Mixed	☐ Meadow
☐ Cultural		☐ Alvar		☐ Prairie
Cover		☑ Rockland		☐ Thicket
☐ Open		☐ Beach / Bar		☐ Savannah
☐ Shrub		☐ Sand Dune		☐ Woodland
☑ Treed		☐ Bluff		☑ Forest
				☐ Plantation

Stand Description

Layer	HT	CVR	Species in Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	Pin Stro = Pin Sylv >> Pic Black Spruce
2	3	2	Pin Stro >> Pin Rand
3	6	2	Vacc angus > Jun comm
4	7	4	moss

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	<10	10-24	25-50	>50
	Standing Snags:	O	O	R	N
BA:	Deadfall / Logs:	O	O	R	N

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age: ☐ Pioneer ☐ Young ☐ Mid-Age ☐ Mature ☐ Old Growth

Ecosite:	Coniferous Forest	Code:	FOC
Vegetation Type:	Dry-Fresh White Pine - Red Pine Coniferous Forest Type	Code:	FOC1-2
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Notes:

Tree Tally by Species

Prism Factor: 2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Ontario and ELC Soils Description

							Summary
Site Metrics		Pit/Auger #					
	UTM	Zone					Moisture Regime
		Easting					
		Northing					
	Slope	Position					
		Aspect					Drainage
		Percent					
		Slope Length					
Depth to...		Mottles					
		Gley					
		Water Table					Effective Texture (indicate below)
		Carbonates					
		Bedrock					

Soil Horizon Description									
	1	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	2	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	3	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
	4	Depth from zero		% CF		% CF		% CF	% CF
		Texture							
		% Surface Stone/Rock							
	Moisture Regime								
	Drainage								

ELC Community Description and Classification	Map #: S48(T103 to T80	Polygon:	
	Surveyor(s): Shorgen J. Hamida	Date: Oct 30/2014	Time start: 12:00pm finish: 1:00pm
	UTMZ: 522594	UTMZ: 5074768	UTMN:

Polygon Description

System	Substrate	Topographic Feature	Plant Form	Community
☐ Terrestrial ☑ Wetland ☐ Aquatic	☐ Organic ☐ Mineral Soil ☐ Parent Min. ☑ Acidic Bedrk ☐ Basic Bedrk ☐ Carb. Bedrk	☐ Lacustrine ☐ Riverine ☑ Bottomland ☐ Terrace ☐ Valley Slope ☐ Tableland ☐ Roll. Upland ☐ Cliff ☐ Talus ☐ Crevice/Cave ☐ Alvar ☐ Rockland ☐ Beach / Bar ☐ Sand Dune ☐ Bluff	☐ Plankton ☐ Submerged ☐ Floating-LVD. ☐ Graminoid ☐ Forb ☐ Lichen ☐ Bryophyte ☐ Deciduous ☑ Coniferous ☐ Mixed	☐ Lake ☐ Pond ☐ River ☐ Stream ☐ Marsh ☑ Swamp ☐ Fen ☐ Bog ☐ Barren ☐ Meadow ☐ Prairie ☐ Thicket ☐ Savannah ☐ Woodland ☐ Forest ☐ Plantation
Site ☐ Open Water ☐ Shallow Water ☑ Surficial Dep. ☐ Bedrock				
History ☑ Natural ☐ Cultural				
Cover ☐ Open ☐ Shrub ☑ Treed				

Stand Description

Layer	HT	CVR	Species In Order of Decreasing Dominance (up to 4 sp) (>> Much Greater Than; > Greater Than; = About Equal To)
1	2	4	TSU cana
2	3	2	Ab. Bals > Ace Rubr = Pic glau
3			
4	7	1	Car Cana = Stand[illegible]

HT Codes: 7 <0.2m 6 >0.2-0.5m 5 >0.5-1m 4 >1-2m 3 >2-6m 2 >6-25m 1 >25m
CVR Codes: 0 = none 1 0% - 10% 2 10 - 25% 3 25 - 60% 4 > 60%

Stand Composition:	Size Class Analysis:	O	<10	A	10-24	A	25-50	R	>50
	Standing Snags:	R	<10	R	10-24	R	25-50	N	>50
BA:	Deadfall / Logs:	O	<10	R	10-24	N	25-50	N	>50

Abundance Codes: N = None R = Rare O = Occasional A = Abundant

Com. Age:	☐ Pioneer	☐ Young	☒ Mid-Age	☒ Mature	☐ Old Growth

Ecosite:	White Cedar organic Coniferous Swamp	Code:	SWC 3
Vegetation Type:		Code:	
Inclusion:		Code:	
Complex:		Code:	

Community Profile Diagram/Comments

Low groundcover - very wet and Acidic

Notes:

Tree Tally by Species

Prism Factor	2

Species	Tally 1	Tally 2	Tally 3	Tally 4	Total	Rel. Avg.
Total						100
Basal Area (BA)						
Dead						

Soils Dntario and ELC Soils Description

		Pit/Auger #				Summary
Site Metrics	UTM	Zone				Moisture Regime
		Easting				
		Northing				
	Slope	Position				
		Aspect				Drainage
		Percent				
		Slope Length				
Depth to...		Mottles				
		Gley				Effective Texture (Indicate below)
		Water Table				
		Carbonates				
		Bedrock				

Soil Horizon Description										
	1	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	2	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	3	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
	4	Depth from zero		% CF		% CF		% CF		% CF
		Texture								
		% Surface Stone/Rock								
	Moisture Regime									
	Drainage									

ELC Form

Project: Henvey Inlet **Date:** **Start Time:** **End Time:**

Field Staff: **Infrastructure:**

Map No.: **UTMs:**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☐ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☐	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☐	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

ELC Code:	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
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☐		☐	☐	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species **Inclusion/Complex**

Cod HT: 7 = <0.2 m 6 = >0.2 – 0.5 m 5 = >0.5 – 1 m 4 = >1 – 2 m 3 = >2 – 2 = >6 – 25 m 1 = >25 m

CVR: 0 = None 1 = 0% – 10% 2 = 10% – 25% 3 = 25% – 60% 4 = >60%

AECOM

ELC Form

Project: Henvey Inlet

Field Staff: J. Hardner T. Shoveg

Map No.: 548 (T103)

Date: Oct 30/2014 **Start Time:** 12:00 Pm **End Time:** 1:00 pm

Infrastructure:

UTMs:

ELC Code	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
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☑ SWT3-1	Alder Organic Thicket Swamp	☐	☑	Forb		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☐	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☑	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species: Alder, Pine, waterberry, grass

Inclusion/Complex:

522671 5074615

ELC Code	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
☐ RBT3-2	Jack Pine Acidic Treed Rock Barren	☐	☐	Submerged		
☐ MAM3-1	Blue Joint Marsh	☐	☐	Floating LVD		
☐ FET1-1	Tamarack Treed Fen	☐	☐	Free Floating		
☐ BOT1-1	Treed Black Spruce Bog	☐	☐	Robust Emergent		
☑ BOT2-1	Tamarack-Leatherleaf Bog	☐	☐	Broad Leaved Emergent		
☐ BOT1a	Tamarack Cran Fern Bog	☐	☐	Narrow Leaved Emergent		
☐ SWD5-1	Black Ash Organic Deciduous Swamp	☐	☑	Graminoid		
☐ SWT3-1	Alder Organic Thicket Swamp	☐	☐	Forb		
☐ SWC4-3	Black Spruce Organic Conifer Swamp	☐	☑	Lichen		
☐ FOC	Coniferous Forest	☐	☐	Bryophyte		
☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☐		☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐ FOD3-1	Dry-Fresh Poplar Deciduous Forest	☐	☐	Dead Shrub		
☑ RBT3a	White Pine Rock Barren	☐	☑	Low Shrub		
☐		☐	☑	Tall Shrub		
☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☑	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

ELC Code	Community Name	Plant Form: Dominant	Plant Form: Present	Plant Form: Form	HT	CVR
☐ RBT	Jack Pine – Treed Rock Barren	☐	☐	Plankton		
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☐		☐	☐	Dead Tree		
☐		☐	☐	Deciduous Tree		
☐		☐	☐	Coniferous Tree		
☐		☐	☐	Mixed Tree		

Dominant/Notable Species:

Inclusion/Complex:

Codes

HT: 7 = <0.2 m; 6 = >0.2 – 0.5 m; 5 = >0.5 – 1 m; 4 = >1 – 2 m; 3 = >2 – 6 m; 2 = >6 – 25 m; 1 = >25 m

CVR: 0 = None; 1 = 0% – 10%; 2 = 10% – 25%; 3 = 25% – 60%; 4 = >60%

AECOM

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

Date:	Oct 30/2014	**Map No.:**	S48 (T103)
Field Staff:	T Shorney, Jesse Harrison	**Infrastructure:**	
Start Time:		**End Time:**	
Weather:	overcast		

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Colonial Nesting Tree/Shrub Birds, Osprey Breeding/Feeding, Bald Eagle Breeding/Nesting Habitat (FET, FOC, FOM, FOD, SWC, SWM, SWD)				
Nest bowl:		N		No. and type of nests:
Waterfowls Stopover/Nesting, Amphibian Breeding, Turtle Nesting/Over-wintering, Marsh Bird Breeding Bird/Moose Aquatic Feeding (CUM, CUT, MAM, MAS, SWD, SWT, OA, SA, FOC, FOM, FOD, SW, BOO, FEO)				
Standing water: Amphibian Breeding - Potential	Y		522272 / 5074548	Water/wetland habitat: FOC - long linear pond to nearby wetland Soil/peat: depth 5-7 cm
Colonial Nesting Bird Breeding (Bank, Cliff, Northern Rough-winged Swallows)/SAR Bird (Peregrine Falcon) (CUM, CUT, CUS, BLO, BLS, BLT, CLO, CLS, CLT)				
Eroding bank, sandy hill, steep slope, cliff, rock face:		N		No. and type of nests observed:
Colonial Nesting Ground Breeding Birds, Shorebird Migratory Stopover Areas/Turtle Nesting Area (BBO, BBS, BBT, SDO, SDS, SDT, MAM)				
Shoreline of large water body:		N		
Rocky island or peninsula:		N		
Mudflat present:		N		
Seeps and Springs/Mineral Licks (FOC, FOM, FOD, SWC, SWM, SWD)				
Seep or spring:		N		Indicator:
Evidence of mineral lick:		N		Substrate:
Mast Producing Areas/SAR Birds (FOD, FOC, FOM, SWC, SWM, SWD)				
Forest with mast producing sp:		N		
SAR Bats Habitat (FOD, FOC,FOM, SWD, SWM, SWC)				
Abundance of cavity trees:		N		
Bat Hibernacula (Cliffs, rock talus, calcareous bedrock, caves, horizontal mine shafts, karst)				
Cave or mine:		N		
Mammal Denning Sites (FOD,FOM,FOC SWD, shorelines adjacent to woodlands, abandoned muskrat/beaver lodges)				
Den:		N		
Reptile Hibernacula/SAR Snakes (TP, BO, MA, FO, RB, CUM, BBO)				
Fissured rock; talus; debris pile; or wetlands with Sphagnum moss or sedge hummock:		N		
Massasauga gestation habitat:		N		
Skink Habitat/Nesting Area				
Forest with cover objects:		N		
Barren with cover objects:		N		
Late Winter Moose Habitat (FOC)				
Conifer stand >50 ha with deep soils:		N		

Henvey Inlet Wind Project – Significant Wildlife Habitat & Species at Risk Habitat Assessment Form

Based on SWHTG Ecoregion 5E Criterion Schedule and Species at Risk COSEWIC Reports

AECOM

SWH and/or SAR Habitat Feature	Present Y	Present N	UTMs	Describe Feature and Habitat
Rare Vegetation Community				
Shallow Atlantic Coastal Marsh		N		
Cliffs and Talus Slopes *Tree cover but less than 60%		N		
Old Growth Forest		N		
Rare Forest Type – Jack Pine		N		
Rare Forest Type – White Oak		N		
Rare Forest Type – White Oak		N		

Photo #	Location or Subject	Photo #	Location or Subject

Incidental Wildlife Observations:

Birds: RBNU, DOWN, BCCH, CORA, Hawksp

Moose Scat.
522700 / 5074554

Comments Regarding Proposed Infrastructure Relocation (including UTMs of suggested new locations):

Other Comments/Observations:

Evidence of Pileated Woodpecker
- Well defined game trail dissecting turbine location

Appendix B2

2015 Site Investigation Wildlife and Wildlife Habitat Field Notes

Wildlife Observations - WEC

AECOM

Map Number	A-M2	Field Crew	OLGA NATALIYA		19
Feature ID	1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2	100	
Start Date	4/8/2015 11:16:55 AM	Precipitation	0		
End Date	4/8/2015 4:05:50 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Moose

Observation Notes 37

Moose scat

Observation Location

Latitude:45.890449,Longitude:-80.553106,Altitude:209.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/08/2015 11:18:06 EDT



Species: Moose

Observation Notes 40

Moose scat

Observation Location

Latitude:45.89039,Longitude:-80.552165,Altitude:196.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/08/2015 03:00:11 EDT



Wildlife Observations - WEC

AECOM

Species: Ruffed grouse

Observation Notes 43

2 grouse, one Flew away the other walking on the ground



Observation Location

Latitude:45.888847,Longitude:-80.556144,Altitude:179.8,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/08/2015 03:20:58 EDT

Map Number	S-M4	Field Crew	OLGA AMI A		21
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	3	Wet, cold, raining	
Start Date	4/13/2015 6:29:52 PM	Precipitation	2		
End Date	4/13/2015 6:29:57 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Moose

Observation Notes 45

Scat



Observation Location

Latitude:45.850763,Longitude:-80.573872,Altitude:188.5,Speed:0.07202222,Accuracy:2.4,Provider:gps,Time:04/13/2015 02:00:40 EDT

Wildlife Observations - WEC

AECOM

Species: Moose

Observation Notes 48

Scat

Observation Location

Latitude:45.851362,Longitude:-80.573381,Altitude:187.8,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/13/2015 03:02:58 EDT



Species: Moose

Observation Notes 51

Scst

Observation Location

Latitude:45.851357,Longitude:-80.573234,Altitude:188.4,Speed:0.07716667,Accuracy:2.4,Provider:gps,Time:04/13/2015 03:08:39 EDT



Map Number	S-M5	Field Crew	SARAH RICHER, ADAM MCCLELLAND		24
Feature ID	Bat-S-M10-40	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	4/13/2015 5:00:42 PM	Precipitation	1		
End Date	4/13/2015 5:15:07 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 3

Rock outcropping suitable for massassauga, skink45.84931 N, 80.57770 WPhoto is in PDF mapsNear plot 463



Feature Location

45.84931,-80.5777

Map Number	S-M3	Field Crew	JASON NORONHA ROB MIKE ASHAWASEGAI		27
Feature ID	Wec-s-m3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	2		
Start Date	4/13/2015 2:17:34 PM	Precipitation	1		
End Date	4/13/2015 5:00:08 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Moose

Observation Notes: 54

Tracks



Observation Location

Latitude:45.855148,Longitude:-80.575173,Altitude:218.2,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/13/2015 02:10:27 EDT

Wildlife Observations - WEC

AECOM

Species: red squirrel

Observation Notes 57

Squirrel seen in spruce

Observation Location

Latitude:45.85888,Longitude:-80.573693,Altitude:210.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:10:27 EDT

Map Number | Field Crew | 30

Feature ID | Study Area: WEC

Project Number | Air Temp. (degC) | Weather Notes

Tablet: AECOM13 | Wind Speed (beaufort)

Start Date | Precipitation

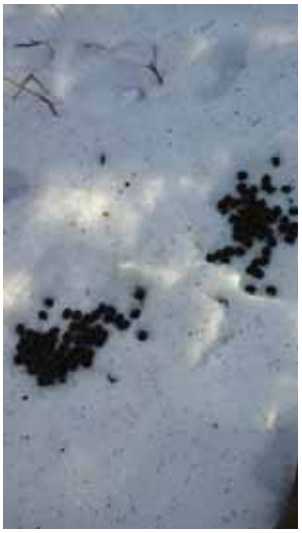
End Date | Cloud Cover

Wildlife Observations

Species: Moose scat

Observation Notes 60

Scattered throughout area



Observation Location

Latitude:45.869262,Longitude:-80.568794,Altitude:184.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT

Map Number: S-M3 | Field Crew: ROB CONOHAN, JASON NORONHA, MIKE ASHAWASEGAI | 33

Wildlife Observations - WEC

AECOM

Feature ID	BAT-S-M3-588	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	4/14/2015 9:09:21 AM	Precipitation	0		
End Date	4/14/2015 5:01:06 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Deer Yarding Areas

Feature Description 6

Fir, spruce stand with abundant moose and deer scat and tracks



Feature Location

Latitude:45.858322,Longitude:-80.574325,Altitude:223.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 08:58:01 EDT

Wildlife Observations

Species: Moose tracks

Observation Notes 63

Abundant ungulate sign. (Tracks, browse and scat)

Observation Location

Latitude:45.860634,Longitude:-80.573951,Altitude:222.7,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:27:38 EDT

Wildlife Observations - WEC

AECOM

Species: Hermit Thrush

Observation Notes: 69

HETH singing

Observation Location

Latitude:45.860639,Longitude:-80.573941,Altitude:223.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:27:38 EDT

Species: Golden-crowned Kinglet

Observation Notes: 75

Trill call

Observation Location

Latitude:45.860564,Longitude:-80.574392,Altitude:223.7,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:56:09 EDT

Species: Moose

Observation Notes: 78

Tracks and scat



Observation Location

Latitude:45.861848,Longitude:-80.573792,Altitude:235.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/14/2015 10:55:25 EDT

Map Number | Field Crew

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Pileated woodpecker

Observation Notes 66

Calling

Observation Location

Latitude:45.868716,Longitude:-80.569803,Altitude:193.7,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT

Species: Yellow-bellied Sapsucker

Observation Notes 72

Observed feeding

Observation Location

Latitude:45.868698,Longitude:-80.569803,Altitude:194.1,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT

Map Number		Field Crew		39

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Moose

Observation Notes 81

Moose scat

Observation Location

Latitude:45.845836,Longitude:-80.590439,Altitude:192.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT

Species: Moose

Observation Notes 84

Moose tracks and lots of scat



Observation Location

Latitude:45.845779,Longitude:-80.590349,Altitude:192.1,Speed:0.12346666,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT

Wildlife Observations - WEC

AECOM

Species: Moose

Observation Notes 87

Fresh tracks

Observation Location

Latitude:45.845453,Longitude:-80.589692,Altitude:191.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT



Species: Moose

Observation Notes 90

Moose scat

Observation Location

Latitude:45.845925,Longitude:-80.586496,Altitude:194.6,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT



Species: Black bear

Observation Notes 93

Bear claw scratch on red maple bark

Observation Location

Latitude:45.846686,Longitude:-80.585695,Altitude:194.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/14/2015 12:18:20 EDT



Map Number: S-M29 Field Crew: AMY INGRISELLI NATALIA SIMONOVA

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID	BAT-S-M29-339	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	4/14/2015 11:55:00 AM	Precipitation	0		
End Date	4/14/2015 11:55:11 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Moose

Observation Notes 96

3 piles of moose pellets in a stand of aspen with heavily browsed red maple saplings and beaked hazel.



Observation Location

Latitude:45.890724,Longitude:-80.541961,Altitude:200.4,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/08/2015 12:03:18 EDT

Species: Moose

Observation Notes 99

High moose browse on dense shrub layer of Acer rubrum and Ostrya virginiana. Also moose tracks, pellets, damaged bark and trees from moose activity. Observed throughout ecosite.



Observation Location

Latitude:45.840543492052696,Longitude:-80.59030373820836,Altitude:141.93658587438986,Speed:0.0,Accuracy:20.0,Provider:gps,Time:04/14/2015 12:01:17 EDT

Map Number	S-M5	Field Crew	ADAM MCCLELLAND	45

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	4/14/2015 11:10:09 AM	Precipitation	0		
End Date	4/14/2015 11:11:25 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Turtle and Lizard Nesting Areas

Feature Description 9

Open rock outcrop area with good rattlesnake gestation area and five lined skink habitat; currently mostly snow covered



Feature Location

Latitude:45.84768,Longitude:-80.581001,Altitude:190.8,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/14/2015 11:06:38 EDT

Map Number	S-M6	Field Crew	KRISTAN WASHBURN AND KASEY MCKENZIE		48
Feature ID	Sw1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	3		
Start Date	4/14/2015 8:00:18 AM	Precipitation	0		
End Date	4/14/2015 5:00:53 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 12

Hole about a metre deep in low lying Forest, no activity., tracks etc.



Feature Location

Latitude:45.846779,Longitude:-80.596501,Altitude:193.1,Speed:0.60704446,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:36:08 EDT

Map Number	S-M7	Field Crew	KW AND KM		51
Feature ID	Sw1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	4.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	4/15/2015 10:32:56 AM	Precipitation	0		
End Date	4/15/2015 10:32:59 AM	Cloud Cover	0.00		

Wildlife Observations

Species	Broad-winged hawk

Observation Notes 102

Two Broad-winged hawks aerial aggressive behaviour... no visible nest

Observation Location

Latitude:45.845333,Longitude:-80.601634,Altitude:202.1,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/15/2015 10:34:13 EDT

Map Number	S-M7	Field Crew	KRISTAN WASHBURN AND KASEY MCKENZIE	54

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	4/15/2015 2:19:55 PM	Precipitation	0		
End Date	4/15/2015 4:57:09 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)

Feature Description 15

Great blue heronry2 visible nests6 adult heron so 3 pairsLikely a third nest somewhere



Feature Location

Latitude:45.850006,Longitude:-80.60094,Altitude:196.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:28:43 EDT

Map Number	S-M12	Field Crew	AMI AND ADAM		57
Feature ID	BAT-S-M12-516	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Sunny day	
Start Date	4/15/2015 1:20:34 PM	Precipitation	0		
End Date	4/15/2015 1:20:37 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Moose

Observation Notes 105

Moose tracks in snow and nose print where he ate some snow! Found some some hair in nose print.



Observation Location

Latitude:45.85192,Longitude:-80.619355,Altitude:203.7,Speed:0.23664445,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:18:26 EDT

Map Number	S-M10	Field Crew	JOHANNA PEREZ, TOM SHORNEY		60
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/15/2015 10:48:42 AM	Precipitation	0		
End Date	4/15/2015 10:48:00 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 18

Rock crevice/ fissure extending both horizontally and vertically what appears to be under the frostline.Habit Surrounded by FOMCrevice north facing.



Feature Location

Latitude:45.855422,Longitude:-80.611563,Altitude:200.7,Speed:0.6945,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:48:19 EDT

Map Number	S-M10	Field Crew	JOHANNA PEREZ, TOM SHORNEY	63

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/15/2015 12:52:41 PM	Precipitation	0		
End Date	4/15/2015 12:52:25 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 21

Rock pile, south facing towards sun, appear to be going under frost line, rock pile consists of rock slabs, in small open area in mxed forests, potential hibernacula among junipers



Feature Location

Latitude:45.856484,Longitude:-80.610093,Altitude:209.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:52:48 EDT

Map Number	S-M11	Field Crew	JOHANNA PEREZ, TOM SHORNEY		66
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/15/2015 3:41:31 PM	Precipitation	0		
End Date	4/15/2015 3:41:39 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 24

Large boulders along rock wall, apears t go beneath frost line, west facing, borders mixed swamp



Feature Location

Latitude:45.856713,Longitude:-80.619251,Altitude:192.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:41:11 EDT

Map Number	S-M11	Field Crew	OLGA JASON	69

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/15/2015 9:17:11 AM	Precipitation	0		
End Date	4/15/2015 5:40:15 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature	Mast Producing Areas

Feature Description 27

Lots of American Beech trees and Red Oak present, possible mast producing site to be confirmed during ELC.



Feature Location

Latitude:45.853874,Longitude:-80.622806,Altitude:200.8,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:21:27 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Moose

Observation Notes 108

Moose track



Observation Location

Latitude:45.854948,Longitude:-80.621434,Altitude:176.9,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:17:18 EDT

Species: Eastern Pheobe

Observation Notes 111

Heard calling

Observation Location

Latitude:45.854892,Longitude:-80.62159,Altitude:184.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:25:24 EDT

Species: Red Squirrel

Observation Notes 114

2 chasing each other

Observation Location

Latitude:45.854163,Longitude:-80.621339,Altitude:198.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:31:16 EDT

Wildlife Observations - WEC

AECOM

Species: Moose

Observation Notes 117

Scat



Observation Location

Latitude:45.854161,Longitude:-80.62134,Altitude:197.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:31:50 EDT

Species: Red-breasted Nuthatch

Observation Notes 120

Heard calling

Observation Location

Latitude:45.854158,Longitude:-80.621344,Altitude:197.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:32:35 EDT

Species: Moose

Observation Notes 123

Fresh moose scat



Observation Location

Latitude:45.853477,Longitude:-80.624477,Altitude:190.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:09:18 EDT

Wildlife Observations - WEC

AECOM

Species: Black bear

Observation Notes 126

Possible black bear sighting off of backanon road

Observation Location

Latitude:45.8538,Longitude:-80.624003,Altitude:178.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:22:06 EDT

Map Number	S-M11	Field Crew	OLGA JASON		72
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/15/2015 9:30:15 AM	Precipitation	0		
End Date	4/15/2015 5:42:29 PM	Cloud Cover	0.00		

Wildlife Observations

Species: White-tailed Deer

Observation Notes 129

Deer poop



Observation Location

Latitude:45.853961,Longitude:-80.62167,Altitude:196.4,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:53:56 EDT

Map Number	S-M29	Field Crew	ADAM MCCLELLAND, AMI ARSENAULT	75

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	4/16/2015 1:00:40 PM	Precipitation	0		
End Date	4/16/2015 1:05:00 PM	Cloud Cover	40.00		

Wildlife Habitat Observations

Feature: Old-growth or Mature Forests

Feature Description 30

Abundance of jack pine trees in area... could be a jackpine stand? Not 'old growth forest' but rare forest the as noted in SWH protcols NOT IN DROP DOWN MENU.



Feature Location

Latitude:45.831888,Longitude:-80.598937,Altitude:187.3,Speed:0.15433334,Accuracy:1.8,Provider:gps,Time:04/16/2015 01:02:30 EDT

Map Number	S-M27	Field Crew	ADAM MCCLELLAND, AMI ARSENAULT		78
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	4/16/2015 2:05:51 PM	Precipitation	0		
End Date	4/16/2015 2:10:04 PM	Cloud Cover	40.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 132

3 snakes headed south



Observation Location

Latitude:45.834164,Longitude:-80.593566,Altitude:181.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 02:08:33 EDT

Map Number: M9 | Field Crew: TOM SHORNEY, SARAH RICHER, MATT HERBERT | 84

Feature ID	Na	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	1	
Start Date	4/16/2015 11:33:26 AM	Precipitation	0	
End Date	4/16/2015 5:10:28 PM	Cloud Cover	70.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 33

Slabs of granite along rock wall. High potential for below frostline access. Close proximity to wetland, west facing



Feature Location

Latitude:45.844955,Longitude:-80.616196,Altitude:188.2,Speed:0.13375555,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:29:04 EDT

Map Number: S-m28 | Field Crew: AMY INGRISELLI NATALIA SIMONOVA | 90

Wildlife Observations - WEC

AECOM

Feature ID	Bat-s-m28-330	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	4/16/2015 10:25:07 AM	Precipitation	0		
End Date	4/16/2015 10:25:12 AM	Cloud Cover	30.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 39

Rolling bedrock barrens with occasional conifers and shrubs for cover, and occasional cracks. Between outcrops are wet, bog/thicket-type wetland areas with conifer and shrub cover. Also, at the provided corrdinates was a small pile of boulders on bedr



Feature Location

Latitude:45.839622,Longitude:-80.599533,Altitude:199.4,Speed:0.0926,Accuracy:2.4,Provider:gps,Time:04/16/2015 10:26:44 EDT

Map Number	S-m28	Field Crew	AMY INGRISELLI NATALIA SIMONOVA		93
Feature ID	Near bat-s-m28-327	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	4/16/2015 11:02:27 AM	Precipitation	0		
End Date	4/16/2015 11:02:30 AM	Cloud Cover	60.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Amphibian Breeding Habitat (Woodland)

Feature Description 42

Vernal pool in moist depression between rolling bedrock. Sphagnum, conifer/ poplar dominant



Feature Location

Latitude:45.839539,Longitude:-80.598076,Altitude:191.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:04:28 EDT

Map Number	S-m28	Field Crew	AMY INGRISELLI NATALIA SIMONOVA	96

Feature ID	Near bat-s-m28-315	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	4/16/2015 1:14:45 PM	Precipitation	0		
End Date	4/16/2015 1:14:49 PM	Cloud Cover	20.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 45

Bedrock with cracks and fissures, pile of boulders. Wetland nearby with sphagnum, shrubs and conifers for cover.



Feature Location

Latitude:45.838833,Longitude:-80.595374,Altitude:191.9,Speed:0.4269889,Accuracy:2.1,Provider:gps,Time:04/16/2015 01:16:33 EDT

Map Number	N-M2	Field Crew	ROBERT CONOHAN, KASEY MCKENZIE, KRISTAN WASHEUBURN	99

Wildlife Observations - WEC

AECOM

Feature ID	N/A	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	4/17/2015 7:29:02 AM	Precipitation	0		
End Date	4/17/2015 2:30:14 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Large mammal den (Bear)

Observation Notes 138

Large burrow adjacent to swamp. Measures 80cm wide and 50cm high.

Observation Location

Latitude:45.884912,Longitude:-80.577169,Altitude:212.9,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/17/2015 01:20:12 EDT



Species: Bufflehead

Observation Notes 141

3 males and a female in pond

Observation Location

Latitude:45.885961,Longitude:-80.575893,Altitude:219.4,Speed:0.015433333,Accuracy:2.0,Provider:gps,Time:04/17/2015 01:37:01 EDT



Map Number	N-M1	Field Crew	OLGA HROPACH JASON	102

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0		
Start Date	4/17/2015 8:10:24 AM	Precipitation	0		
End Date	4/17/2015 2:18:53 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 48

40 cm deep, clear water, small vernal pool 3 m long by 2 m wide, in a coniferous forest, substrate is mineral soil. Very likely to be a seep or spring. Water clear and not frozen, substrate at bottom seems to be disturbed from rising groundwater.



Feature Location

Latitude:45.886854,Longitude:-80.567093,Altitude:171.7,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/17/2015 08:11:39 EDT

Wildlife Observations

Species: Red-breasted Nuthatch

Observation Notes 144

Heard calling

Observation Location

Latitude:45.886728,Longitude:-80.568175,Altitude:201.3,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/17/2015 10:17:57 EDT

Wildlife Observations - WEC

AECOM

Species: Winter Wren

Observation Notes: 147

Heard calling

Observation Location

Latitude:45.886736,Longitude:-80.568155,Altitude:202.1,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/17/2015 10:18:20 EDT

Species: Northern Flicker

Observation Notes: 150

Heard calling

Observation Location

Latitude:45.886738,Longitude:-80.56816,Altitude:201.9,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/17/2015 10:18:52 EDT

Species: Pileated Woodpecker

Observation Notes: 153

Pecking at a cacvity tree

Observation Location

Latitude:45.887469,Longitude:-80.571589,Altitude:189.5,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/17/2015 12:30:18 EDT

Wildlife Observations - WEC

AECOM

Species: Black bear

Observation Notes 156

Black bear seen running west from highway 69 into N-M1

Observation Location

Latitude:45.887704,Longitude:-80.565578,Altitude:189.4,Speed:0.041155554,Accuracy:2.7,Provider:gps,Time:04/17/2015 02:18:36 EDT

Map Number	N-NA	Field Crew	TOM SHORNEY, SARAH RICHER, MATT HERBERT	105

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/17/2015 9:22:58 AM	Precipitation	0		
End Date	4/17/2015 3:06:25 PM	Cloud Cover	20.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 51

Large area of rocks with visible cracks possibly access to frostline. Facing southeast.



Feature Location

Latitude:45.873266,Longitude:-80.58558,Altitude:198.2,Speed:0.056588889,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:24:07 EDT

Map Number	N-M4	Field Crew	AMI ARSENAULT ADAM MCCLELLAND	108

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Sunny and warm	
Start Date	4/17/2015 2:27:02 PM	Precipitation	0		
End Date	4/17/2015 2:27:05 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 54

Lots of small rocks and crevices suitable for reptile basking



Feature Location

Latitude:45.888767,Longitude:-80.574466,Altitude:193.8,Speed:0.0051444443,Accuracy:2.0,Provider:gps,Time:04/17/2015 08:22:03 EDT

Wildlife Observations

Species: Wolf

Observation Notes 159

Fresh wolf prints in snow south of plot 147



Observation Location

Latitude:45.873509,Longitude:-80.586885,Altitude:185.0,Speed:0.025722222,Accuracy:2.25,Provider:gps,Time:04/17/2015 09:33:24 EDT

Map Number		Field Crew	□	111

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 57

Rock wall which contains large fissures, as root crevices from trees.South facing with 60% canopy cover, ephemeral pool 4 m from feature.Feature continues northeast n4587426 w80. 58760 feature in full sun



Feature Location

Latitude:45.874047,Longitude:-80.588098,Altitude:192.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:13:37 EDT

Map Number		Field Crew			114
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description (60)

Large linear vernal pool (observed wood frog in location.Width 8.5 m and length 75approximate depth 30 cmCanopy cover 60%



Feature Location

Latitude:45.873852,Longitude:-80.585284,Altitude:196.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:31:30 EDT

Wildlife Observations

Species: Wood frog

Observation Notes (162)

Wood frog along pond edge

Observation Location

Latitude:45.873851,Longitude:-80.585277,Altitude:196.6,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/17/2015 11:30:17 EDT

Map Number	N-m4	Field Crew	AMY INGRISELLI NATALIYA SIMONOVA		(117)
Feature ID	Near bat-n-m4-173	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	4/17/2015 11:59:15 AM	Precipitation	0		
End Date	4/17/2015 12:00:37 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 63

Cluster of boulders at bedrock slope and rock face. Facing west, and facing wet thicket. Rolling bedrock landscape and hardwood forest.



Feature Location

Latitude:45.875627,Longitude:-80.583475,Altitude:187.0,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/17/2015 12:01:20 EDT

Map Number	N-m3	Field Crew	AMY INGRISELLI NATALIYA SIMONOVA		120
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/17/2015 12:26:37 PM	Precipitation	0		
End Date	4/17/2015 12:26:41 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 66

Bedrock with fissures and juniper, suitable Sistrurus catenatus habitat



Feature Location

Latitude:45.877483,Longitude:-80.5811,Altitude:198.4,Speed:0.06173333,Accuracy:2.7,Provider:gps,Time:04/17/2015 12:21:07 EDT

Map Number	S-M13	Field Crew	KRISTAN WASHBURN AND TOM SHORNEY	123

Wildlife Observations - WEC

AECOM

Feature ID	SW1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	4/20/2015 11:36:39 AM	Precipitation	2		
End Date	4/20/2015 11:36:42 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 69

Good west facing slope cracks to frostline



Feature Location

Latitude:45.844855,Longitude:-80.629126,Altitude:181.7,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/20/2015 11:37:25 EDT

Map Number	N-M5	Field Crew	AYESHA PRASAD, JASON NORONHA		126
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	3		
Start Date	4/20/2015 12:33:33 PM	Precipitation	1		
End Date	4/20/2015 12:33:38 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Moose

Observation Notes 165

High density of pellet groups



Observation Location

Latitude:45.871804,Longitude:-80.596019,Altitude:198.1,Speed:0.051444445,Accuracy:2.7,Provider:gps,Time:04/20/2015 12:36:16 EDT

Map Number | Field Crew | 129

Feature ID		Study Area	WEC	
Project Number		Air Temp. (degC)		Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)		
Start Date		Precipitation		
End Date		Cloud Cover		

Wildlife Observations

Species: Canada goose

Observation Notes 168

Nesting



Observation Location

Latitude:45.871377,Longitude:-80.5944,Altitude:195.5,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/20/2015 01:24:41 EDT

Map Number: N-m10 | Field Crew: JOHANNA PERZ, NATALIYA SIMONOVA | 132

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	4		
Start Date	4/20/2015 10:20:55 AM	Precipitation	1		
End Date	4/20/2015 10:20:57 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 72

pile of rocks om cliff, south facing, appears to go below frost line



Feature Location

Latitude:45.86636,Longitude:-80.608376,Altitude:190.2,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/20/2015 10:19:45 EDT

Map Number	N-m11	Field Crew	JOHANNA PERZ, NATALIYA SIMONOVA		135
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	4		
Start Date	4/20/2015 11:10:00 AM	Precipitation	1		
End Date	4/20/2015 11:10:03 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	75

East facing slope, crevice on rock cliff, juniper shrubs, near shallow stream, may go below frost line



Feature Location

Latitude:45.869881,Longitude:-80.618626,Altitude:189.7,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/20/2015 11:11:57 EDT

Map Number	N-m11	Field Crew	AMY INGRISELLI ADAM MCCLELLAND		138
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	4/20/2015 1:02:08 PM	Precipitation	1		
End Date	4/20/2015 1:02:11 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Seeps and Springs
Feature Description	78

Iron staining observed on substrate of small creek. Creek flowing from forest to what was a beaver pond. It appears that a beaver dam downstream has breached. Iron staining in the flowing water at inlet of old beaver pond.



Feature Location

Latitude:45.870068,Longitude:-80.604674,Altitude:180.5,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:58:45 EDT

Map Number	N-M11	Field Crew	AMY INGRISELLI, ADAM MCCLELLAND	141

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	4/20/2015 1:08:27 PM	Precipitation	1		
End Date	4/20/2015 1:08:31 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 81

Boulders on bedrock slope faacing se and drained beaver pond



Feature Location

Latitude:45.870398,Longitude:-80.604317,Altitude:188.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/20/2015 01:10:19 EDT

Map Number	S-M26	Field Crew	NATALIYA SIMONOVA JOHANNA PEREZ		144
Feature ID	BAT-S-M26-359	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1	Variable	
Start Date	4/21/2015 10:36:06 AM	Precipitation	0		
End Date	4/21/2015 10:36:19 AM	Cloud Cover	95.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description (84)

Side of rock outcrop, crevice that appear to go below the frost line, north facing by slope, mixed forest (white birch, red maple, white spruce, trembling aspen)



Feature Location

Latitude:45.843144,Longitude:-80.610666,Altitude:195.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:38:17 EDT

Map Number	N/A	Field Crew	SARAH RICHER		(147)
Feature ID	N/A	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	4/21/2015 4:44:10 PM	Precipitation	0		
End Date	4/21/2015 2:30:15 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Rusty blackbird

Observation Notes (171)

Actual location is N 45.89174, W 80.56403, GPS was not working at time of observationOne bird observed at approximately 2:30 pm; called then flew north out of sight

Observation Location

Latitude:45.89167,Longitude:-80.563947,Altitude:0.0,Speed:0.07202222,Accuracy:8.4,Provider:gps,Time:04/21/2015 04:05:39 EDT

Map Number	S-M14	Field Crew	JAMES KAMSTRA	(153)

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/21/2015 10:20:13 AM	Precipitation	0		
End Date	4/21/2015 10:21:31 AM	Cloud Cover	90.00		

Wildlife Observations

Species: Osprey

Observation Notes 174

Adult circling over wetland.

Observation Location

Latitude:45.848323,Longitude:-80.636065,Altitude:189.8,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/21/2015 11:03:47 EDT

Species: Sandhill crane

Observation Notes 177

Pair in weland

Observation Location

Latitude:45.848332,Longitude:-80.636063,Altitude:190.1,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:04/21/2015 11:05:24 EDT

Map Number	S-M14	Field Crew	J KAMSTRA	156

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/21/2015 10:26:50 AM	Precipitation	0		
End Date	4/21/2015 10:27:02 AM	Cloud Cover	90.00		

Wildlife Observations

Species: Greater Yellowlegs

Observation Notes 180

1 in mud in beaver pond

Observation Location

Latitude:45.842562,Longitude:-80.634477,Altitude:183.1,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:04/21/2015 11:28:56 EDT

Map Number | Field Crew | 159

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species	Bald eagle

Observation Notes 183

1adult circling over beaver pond.

Observation Location

Latitude:45.831493,Longitude:-80.641661,Altitude:184.0,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/21/2015 01:32:54 EDT

Map Number	S-NA	Field Crew	REPORT TO JAMES KAMSTRA BY PETER	162

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	1	
Start Date	4/21/2015 2:00:21 PM	Precipitation	0	
End Date	4/21/2015 2:00:00 PM	Cloud Cover	50.00	

Wildlife Observations

Species	Spotted turtle

Observation Notes 186

Observed by peter banaszek at 526613 5074514

Observation Location

Latitude:45.830128,Longitude:-80.651571,Altitude:189.9,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/21/2015 02:44:49 EDT

Map Number		Field Crew		165

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Native Phragmites

Observation Notes 189

Patch 15 x 15 m in leatherleaf fen.



Observation Location

Latitude:45.849979,Longitude:-80.624051,Altitude:195.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/21/2015 04:41:44 EDT

Map Number	S-M22	Field Crew	JASON NORONHA, AYESHA PRASAD		168
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	4/22/2015 2:20:11 PM	Precipitation	0		
End Date	4/22/2015 2:25:14 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Waterfowl Stopover and Staging Areas (Aquatic)

Feature Description 87

Rock barrens surrounded by red pine

Feature Location

Latitude:45.82461,Longitude:-80.613652,Altitude:192.7,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:28:20 EDT

Wildlife Observations

Species	Sandhill crane

Observation Notes 192

Two birds flying around and calling

Observation Location

Latitude:45.824606,Longitude:-80.613648,Altitude:192.3,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:27:02 EDT

Map Number	S-NA	Field Crew	KRISTAN WASHBURN, TOM SHORNEY		171
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	4/22/2015 1:30:08 PM	Precipitation	0		
End Date	4/22/2015 4:45:54 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description (90)

Large pile of boulders with large crevices potentially providing access to below frostline. Feature bordering large wetland and is south facing.



Feature Location

Latitude:45.831328,Longitude:-80.642216,Altitude:201.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:31:07 EDT

Wildlife Observations

Species: Rusty blackbird

Observation Notes (195)

20 birds along shoreline. Special concern.



Observation Location

Latitude:45.854773,Longitude:-80.637903,Altitude:165.9,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/22/2015 03:38:55 EDT

Map Number	S-m24	Field Crew	JOHANNA PEREZ, SARAH RICHER		174
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2	Wet snow	
Start Date	4/22/2015 10:01:39 AM	Precipitation	1		
End Date	4/22/2015 10:01:42 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 93

Also lizard nesting area and snake gestation location, south east facing, adjacent to treed fen, rotted wood deadfall, rock pile on rock outcrop with crevices and fissures that may extend beneath frost line, jack pine, sweet gale shrubs



Feature Location

Latitude:45.83044,Longitude:-80.605261,Altitude:199.3,Speed:0.29323334,Accuracy:1.5,Provider:gps,Time:04/22/2015 10:02:51 EDT

Map Number	S-m23	Field Crew	JOHANNA PEREZ, SARAH RICHER	177

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2	Wet snow	
Start Date	4/22/2015 10:17:31 AM	Precipitation	1		
End Date	4/22/2015 10:17:35 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 96

Potential webbing site although porcupine scat surrounding entrance



Feature Location

Latitude:45.827662,Longitude:-80.606025,Altitude:200.0,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/22/2015 10:18:57 EDT

Map Number	S-m22	Field Crew	JOHANNA PEREZ, SARAH RICHER	180

Wildlife Observations - WEC

AECOM

Feature ID	Bat-s-m22-132	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2	Wet snow, can see sun light through clouds	
Start Date	4/22/2015 11:34:17 AM	Precipitation	1		
End Date	4/22/2015 11:34:22 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Deer Yarding Areas

Feature Description 99

Lots of browsed red maple sapling, adjacent to black spruce by, moose and deer scat, well trampled, some moose prints



Feature Location

Latitude:45.825905,Longitude:-80.609555,Altitude:201.4,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:35:39 EDT

Map Number	S-m22	Field Crew	JOHANNA PEREZ, SARAH RICHER		183
Feature ID	Bat-s-m22-91	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	4/22/2015 2:11:36 PM	Precipitation	0		
End Date	4/22/2015 2:11:39 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	102

Swath 30m long of suitable crevices on slope of rock outcrop, rotting wood good for skink, good for snake gestation, some crevices appear to go below frost line, shruby and stunted trees surrounding area



Feature Location

Latitude:45.825058,Longitude:-80.612822,Altitude:202.3,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:13:04 EDT

Map Number	S-M25	Field Crew	AMI AND KACEY		186
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4	Cold	
Start Date	4/22/2015 3:20:52 PM	Precipitation	0		
End Date	4/22/2015 3:22:12 PM	Cloud Cover	100.00		

Wildlife Observations

Species	Spring peeper
Observation Notes	198

could hear more then 2 spring peepers calling



Observation Location

Latitude:45.831379,Longitude:-80.607448,Altitude:193.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/22/2015 02:58:40 EDT

Map Number	N-M1	Field Crew	JAMES KAMSTRA HEATHER KIME	189

Wildlife Observations - WEC

AECOM

Feature ID	V-shaped beaver pond	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	0	
Start Date	4/22/2015 9:59:33 AM	Precipitation	1	
End Date	4/22/2015 10:00:30 AM	Cloud Cover	100.00	

Wildlife Observations

Species: Bufflehead

Observation Notes 201

11

Observation Location

Latitude:45.886568,Longitude:-80.574907,Altitude:196.9,Speed:0.13375555,Accuracy:2.4,Provider:gps,Time:04/22/2015 10:01:10 EDT

Species: Ring-neck duck

Observation Notes 204

6

Observation Location

Latitude:45.886568,Longitude:-80.574919,Altitude:197.6,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/22/2015 10:02:05 EDT

Wildlife Observations - WEC

AECOM

Species: Mallard

Observation Notes 207

2

Observation Location

Latitude:45.886571,Longitude:-80.574921,Altitude:197.7,Speed:0.19034444,Accuracy:2.4,Provider:gps,Time:04/22/2015 10:03:03 EDT

Species: Wood duck

Observation Notes 210

2

Observation Location

Latitude:45.886571,Longitude:-80.574921,Altitude:197.7,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/22/2015 10:03:20 EDT

Map Number	N-M9	Field Crew	JAMES KAMSTRA, HEATHER KIME		192
Feature ID	M9 possible shake monitor site near m9-18	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	4/22/2015 2:10:49 PM	Precipitation	0		
End Date	4/22/2015 2:12:41 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	105

Rock jumble on SW face near Amp Mon site



Feature Location

Latitude:45.88366,Longitude:-80.630789,Altitude:197.1,Speed:0.20577778,Accuracy:1.8,Provider:gps,Time:04/22/2015 02:15:37 EDT

Map Number	N-M30	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		195
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3	Overcast	
Start Date	4/23/2015 9:30:29 AM	Precipitation	0		
End Date	4/23/2015 9:39:12 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf
Feature Description	108

Rodent scat present



Feature Location

Latitude:45.878865,Longitude:-80.674223,Altitude:189.1,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/23/2015 09:33:22 EDT

Map Number	N-M30	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ	198

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 9:38:34 AM	Precipitation	0		
End Date	4/23/2015 9:43:11 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 111

Faces southeastCrevasse in rock barrensJuniper, jack pine, moss, lichen



Feature Location

Latitude:45.878121,Longitude:-80.674237,Altitude:187.2,Speed:0.025722222,Accuracy:1.25,Provider:gps,Time:04/23/2015 09:40:02 EDT

Map Number	N-M30	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		201
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 9:51:30 AM	Precipitation	0		
End Date	4/23/2015 10:01:20 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Three-toed Woodpecker

Observation Notes 213

Feeding in jack pineRock barrens



Observation Location

Latitude:45.878031,Longitude:-80.674604,Altitude:188.1,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/23/2015 09:52:30 EDT

Map Number: N-M30 | Field Crew: ADAM MCCLELLAND, JOHANNA PERZ | 204

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 10:28:41 AM	Precipitation	0		
End Date	4/23/2015 10:30:50 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 114

Crevasse in rock barrensJuniper, jack pine



Feature Location

Latitude:45.877727,Longitude:-80.674579,Altitude:189.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/23/2015 10:29:23 EDT

Map Number: N-M29 | Field Crew: ADAM MCCLELLAND, JOHANNA PERZ | 207

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3	Sunny breaks	
Start Date	4/23/2015 10:51:58 AM	Precipitation	0		
End Date	4/23/2015 10:54:38 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 117

Small den in rock barrens, surrounded by shrubs



Feature Location

Latitude:45.875913,Longitude:-80.668057,Altitude:189.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/23/2015 10:53:12 EDT

Map Number	N-M29	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		210
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3	Overcast	
Start Date	4/23/2015 11:26:05 AM	Precipitation	0		
End Date	4/23/2015 11:28:37 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf
Feature Description	120

Den in rock barrens adjacent to swampFaces eastM29-129



Feature Location

Latitude:45.873692,Longitude:-80.668603,Altitude:187.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/23/2015 11:27:09 EDT

Map Number	N-M30	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		213
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 12:14:35 PM	Precipitation	0		
End Date	4/23/2015 12:16:52 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf
Feature Description	123

Large den in rock barrens, may be too open



Feature Location

Latitude:45.873675,Longitude:-80.669149,Altitude:193.9,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/23/2015 12:15:25 EDT

Map Number	N-M29	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ	216

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 12:39:37 PM	Precipitation	0		
End Date	4/23/2015 12:42:17 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 126

Covered by shrubs, faces southAdjacent to swamp



Feature Location

Latitude:45.873715,Longitude:-80.669634,Altitude:191.1,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/23/2015 12:40:37 EDT

Map Number	N-M29	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		219
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 1:22:53 PM	Precipitation	0		
End Date	4/23/2015 1:26:38 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 129

Small crevasse 12 cm wide, appears deep



Feature Location

Latitude:45.874359,Longitude:-80.669152,Altitude:186.1,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:23:41 EDT

Map Number	N-M29	Field Crew	JAMES KAMSTRA, HEATHER KIME	222	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	0.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/23/2015 10:36:14 AM	Precipitation	0		
End Date	4/23/2015 10:37:08 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 132

Irregular jumble of rocks with crevices



Feature Location

Latitude:45.874185,Longitude:-80.668994,Altitude:188.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/23/2015 10:37:49 EDT

Wildlife Observations - WEC

AECOM

Feature: Cliffs and Talus Slopes

Feature Description: 135

Boulders & crevices also potential gestacion site



Feature Location

Latitude:45.874194,Longitude:-80.668981,Altitude:187.9,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/23/2015 10:42:43 EDT

Map Number	S-M17	Field Crew	KASEY MCKENZIE & AMI ARSAENAULT		225
Feature ID	N/A	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	4/24/2015 11:00:12 AM	Precipitation	0		
End Date	4/24/2015 11:05:42 AM	Cloud Cover	50.00		

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes: 216

Laying curled up in moschata. May be cold.



Observation Location

Latitude:45.831939,Longitude:-80.631388,Altitude:188.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/24/2015 11:06:28 EDT

Map Number	N-M31	Field Crew	JASON NORONHA,, JOHANNA PERZ	228

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/23/2015 11:38:33 AM	Precipitation	0		
End Date	4/23/2015 11:38:39 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 138

Rock barren creverse. Se facing slope. Spruce pine stand

Feature Location

Latitude:45.857156,Longitude:-80.66193,Altitude:179.9,Speed:0.8385444,Accuracy:1.8,Provider:gps,Time:04/27/2015 09:52:57 EDT

Feature: Reptile Hibernacula

Feature Description: 141

Crevess



Feature Location

Latitude:45.860639,Longitude:-80.665303,Altitude:184.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:10:39 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 144

Crevess

Feature Location

Latitude:45.862223,Longitude:-80.667561,Altitude:183.9,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:22:01 EDT



Feature: Reptile Hibernacula

Feature Description: 147

Crevess

Feature Location

Latitude:45.863704,Longitude:-80.671394,Altitude:189.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/27/2015 11:32:29 EDT



Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 150

Denningsite. Possible reptile site

Feature Location

Latitude:45.856175,Longitude:-80.662532,Altitude:184.5,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/27/2015 01:31:26 EDT



Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Coyote or wolf

Observation Notes 219

Looks like large carnivore scat. Not sure which canid.



Observation Location

Latitude:45.882563,Longitude:-80.682078,Altitude:193.0,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/23/2015 11:40:59 EDT

Species: Heron

Observation Notes 222

Herony



Observation Location

Latitude:45.857932,Longitude:-80.660033,Altitude:181.0,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/27/2015 09:44:35 EDT

Map Number	N-M30	Field Crew	AMY INGRISELLI	231	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	4/27/2015 9:21:14 AM	Precipitation	0		
End Date	4/27/2015 9:30:47 AM	Cloud Cover	90.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Waterfowl Stopover and Staging Areas (Aquatic)

Feature Description: 153

Open water beaver pond with bedrock peninsula, bedrock or grassy shoreline. Saw 2 Wood Ducks, 2 Canada Geese, 4 Mallards, 2 Sandhill cranes.



Feature Location

Latitude:45.880995,Longitude:-80.671172,Altitude:187.2,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/27/2015 09:23:46 EDT

Feature: Shorebird Migratory Stopover Areas (Shorebird Staging)

Feature Description: 156

Open water beaver pond but with grassy marsh meadow and mudflats areas. Greater Yellowlegs observed feeding in muddy shallow grass marsh and hummocks



Feature Location

Latitude:45.880267,Longitude:-80.669571,Altitude:181.7,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/27/2015 10:13:32 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description (159)

Bedrock with fissures and cracks, shrubs such as juniper for cover, facing south, open canopy 30 percent



Feature Location

Latitude:45.884538,Longitude:-80.676049,Altitude:187.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/27/2015 12:25:55 EDT

Wildlife Observations

Species: Red-tailed hawk

Observation Notes (225)

Pair flying and calling above and to the south approximately 80-100 m away from coordinates. Photo taken of where hawk was observed. Hawk was circling over the. Area



Observation Location

Latitude:45.88101,Longitude:-80.671129,Altitude:187.5,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/27/2015 09:27:24 EDT

Map Number	N-M21	Field Crew	AMY INGRISELLI		234
Feature ID		Study Area	WEC		
Project Number	63041251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	4/27/2015 3:43:38 PM	Precipitation	0		
End Date	4/27/2015 3:43:50 PM	Cloud Cover	95.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf
Feature Description	162

Potential denning site, unknown scat (berries) debris piled in suspected den



Feature Location

Latitude:45.877617,Longitude:-80.6514,Altitude:187.3,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/27/2015 02:00:17 EDT

Feature	Reptile Hibernacula
Feature Description	165

Broken bedrock and boulders with shrubs for cover, near bog, facing south



Feature Location

Latitude:45.877598,Longitude:-80.651406,Altitude:187.0,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/27/2015 02:02:08 EDT

Map Number	S-NA	Field Crew	KRISTAN WASHBURN		237
Feature ID	Sw1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	3		
Start Date	4/27/2015 12:29:45 PM	Precipitation	0		
End Date	4/27/2015 12:29:47 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 228

Rattler basking



Observation Location

Latitude:45.869903,Longitude:-80.632752,Altitude:193.3,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:30:48 EDT

Map Number: N-M35 | Field Crew: ADAM MCCLELLAND, NATALIYA SIMONOVA | 240

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4	Sunny breaks	
Start Date	4/27/2015 11:22:20 AM	Precipitation	0		
End Date	4/27/2015 11:27:45 AM	Cloud Cover	65.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 168

Rocky slope facing southeast, several crevasses appear deep



Feature Location

Latitude:45.860043,Longitude:-80.67764,Altitude:189.3,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:24:41 EDT

Map Number: N-M48 | Field Crew: CASEY O'DRISCOLL & KASEY MCKENZIE | 243

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	4/28/2015 2:12:59 PM	Precipitation	0		
End Date	4/28/2015 3:15:06 PM	Cloud Cover	5.00		

Wildlife Observations

Species: Spotted turtle

Observation Notes 231

Turtle heading across rock barren



Observation Location

Latitude:45.868536,Longitude:-80.708365,Altitude:182.5,Speed:0.20063333,Accuracy:1.5,Provider:gps,Time:04/28/2015 02:11:28 EDT

Species: Spotted Turtle

Observation Notes 234

On small floating mat in swamp.



Observation Location

Latitude:45.88149,Longitude:-80.710601,Altitude:180.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 03:09:48 EDT

Map Number	S-M14	Field Crew	KRISTAN WASHBURN	246

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	3		
Start Date	4/28/2015 9:30:57 AM	Precipitation	0		
End Date	4/28/2015 2:24:10 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Smooth Greensnake

Observation Notes 240

Slithering away

Observation Location

Latitude:45.847946,Longitude:-80.632864,Altitude:192.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/28/2015 01:50:45 EDT



Species: Blanding's turtle

Observation Notes 243

3 individuals basking

Observation Location

Latitude:45.849625,Longitude:-80.633297,Altitude:190.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/28/2015 01:59:16 EDT



Map Number	N-M46	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA	249

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	4/28/2015 10:55:11 AM	Precipitation	0		
End Date	4/28/2015 10:55:14 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 237

Snake basking

Observation Location

Latitude:45.858765,Longitude:-80.696319,Altitude:188.9,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:54:58 EDT



Map Number	N-m43	Field Crew	JOHANNA PEREZ, JASON NORONHA		252
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/28/2015 12:08:05 PM	Precipitation	0		
End Date	4/28/2015 4:10:37 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 171

South-west facing crevice on rock barren that appear to go below frost line, near treed bog, deadwood nearby for skink. Vegetation composed of Jack pine and shrub



Feature Location

Latitude:45.860983,Longitude:-80.687835,Altitude:189.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:10:08 EDT

Feature: Reptile Hibernacula

Feature Description: 174

Crevices on south east facing rock barren, juniper and other low lying vegetation, few jack spruce, dead wood and snags, treed bogs



Feature Location

Latitude:45.861035,Longitude:-80.690702,Altitude:180.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:20:02 EDT

Wildlife Observations - WEC

AECOM

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 177

On rock barren, near treed bog habitat types



Feature Location

Latitude:45.864566,Longitude:-80.693101,Altitude:180.6,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:33:07 EDT

Map Number	N-NA	Field Crew	JOHANNA PEREZ, JASON NORONHA		255
Feature ID	Near n-m40	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/28/2015 9:20:23 AM	Precipitation	0		
End Date	4/28/2015 3:25:38 PM	Cloud Cover	5.00		

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description: 180

Spring peeper heard from key river shore just east of recorded coordinates; great blue. Heron



Feature Location

Latitude:45.884605,Longitude:-80.694211,Altitude:178.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/28/2015 03:21:14 EDT

Map Number	N-M28	Field Crew	AMY INGRISELLI	258

Wildlife Observations - WEC

AECOM

Feature ID	Tu-n-m28-10	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/28/2015 10:20:08 AM	Precipitation	0		
End Date	4/28/2015 10:20:12 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Waterfowl Stopover and Staging Areas (Aquatic)

Feature Description 183

Open water beaver pond, few logs and grassy hummocks, few small mud and grass flat areas



Feature Location

Latitude:45.867778,Longitude:-80.664275,Altitude:183.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 10:18:30 EDT

Map Number	N-M27	Field Crew	AMY INGRISELLI		261
Feature ID	SN-n-m27-01	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/28/2015 10:36:24 AM	Precipitation	0		
End Date	4/28/2015 11:20:09 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	186

Rolling bedrock with fissures and occasional piles of boulders, juniper and shrubs for cover and in close proximity to conifer/Sphagnum wetland



Feature Location

Latitude:45.865308,Longitude:-80.660567,Altitude:185.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:50:28 EDT

Map Number	N-M27	Field Crew	AMY INGRISELLI		264
Feature ID	SA-n-m27-02	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	4/28/2015 11:00:59 AM	Precipitation	0		
End Date	4/28/2015 11:24:34 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	189

Rolling bedrock, suitable fissures and juniper for cover, wetland nearby



Feature Location

Latitude:45.861184,Longitude:-80.65648,Altitude:184.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:24:04 EDT

Map Number	N-M28	Field Crew	AMY INGRISELLI	267

Wildlife Observations - WEC

AECOM

Feature ID	SN-n-m28-10	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	4/28/2015 11:53:28 AM	Precipitation	0		
End Date	4/28/2015 12:05:02 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Midland painted turtle

Observation Notes 246

Turtle basking on log approximately 15m north of coordinates



Observation Location

Latitude:45.858423,Longitude:-80.659396,Altitude:171.3,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/28/2015 11:54:45 EDT

Map Number	N-M33	Field Crew	AMY INGRISELLI		270
Feature ID	SA-n-m33-1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/28/2015 12:08:40 PM	Precipitation	0		
End Date	4/28/2015 12:30:51 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 192

Rolling bedrock with occasional fissures and boulders, shrubs providing cover. Conifer swamp between 2 bedrock, northern water snake seen basking in Swamp.



Feature Location

Latitude:45.857526,Longitude:-80.662979,Altitude:182.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:23:42 EDT

Wildlife Observations

Species: Northern Watersnake

Observation Notes 249

Basking in Sphagnum conifer swamp between bedrock



Observation Location

Latitude:45.857489,Longitude:-80.662945,Altitude:183.5,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:25:52 EDT

Map Number	N-M33	Field Crew	AMY INGRISELLI	273	
Feature ID	SN-n-m33-02	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	4/28/2015 12:39:48 PM	Precipitation	0		
End Date	4/28/2015 12:58:51 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 195

Pile of boulders on bedrock slope, facing west towards open water wetland



Feature Location

Latitude:45.857491,Longitude:-80.664545,Altitude:184.5,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:40:40 EDT

Map Number	N-M33	Field Crew	AMY INGRISELLI	276	
Feature ID	SN-n-m33-3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	4/28/2015 1:00:40 PM	Precipitation	0		
End Date	4/28/2015 1:42:11 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 198

Pile of boulders between open water beaver ponds, with mats of vegetation upstream of dam. More than one pile of boulders along east shoreline in the vicinity of the beaver dam



Feature Location

Latitude:45.857531,Longitude:-80.666157,Altitude:177.0,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:27:24 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Midland painted turtle

Observation Notes 252

Two basking on log in open water wetland approximately 20 m. Northeast and 30 m southeast of coordinates. Was observed while travelling to tu-no-m33-3



Observation Location

Latitude:45.856996,Longitude:-80.665667,Altitude:178.5,Speed:0.1389,Accuracy:2.1,Provider:gps,Time:04/28/2015 01:16:40 EDT

Species: Midland painted turtle

Observation Notes 255

Observed basking on log while an route to tu-n-m33-3, same wetland but further south. Open water, logs and grassy hummocks present along bedrock shoreline but sparse



Observation Location

Latitude:45.859597,Longitude:-80.665745,Altitude:169.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:42:47 EDT

Map Number	N-M33	Field Crew	AMY /NGRISELLI	279	
Feature ID	Tu-n-m33-3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	4/28/2015 2:19:04 PM	Precipitation	0		
End Date	4/28/2015 2:19:43 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Waterfowl Stopover and Staging Areas (Aquatic)

Feature Description: 201

Large open water wetland with bedrock islands and shoreline, with some areas of vegetated shoreline.. little aquatic veg observed.



Feature Location

Latitude:45.86092,Longitude:-80.667266,Altitude:185.9,Speed:1.2089444,Accuracy:3.9,Provider:gps,Time:04/28/2015 02:24:31 EDT

Map Number		Field Crew		282	
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Turtle Wintering Areas

Feature Description: 204

Large beaver pond



Feature Location

Latitude:45.859094,Longitude:-80.697383,Altitude:181.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/28/2015 10:43:49 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Gray wolf

Observation Notes 258

Wolf droppings along rock barren



Observation Location

Latitude:45.858731,Longitude:-80.694243,Altitude:183.8,Speed:0.9157111,Accuracy:1.5,Provider:gps,Time:04/28/2015 11:00:17 EDT

Species: Blanding's turtle

Observation Notes 261

Basking on log



Observation Location

Latitude:45.851403,Longitude:-80.672598,Altitude:180.2,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/28/2015 01:40:58 EDT

Map Number	N-M48	Field Crew	AMY INGRISELLI		285
Feature ID	Tu-n-48-13	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/29/2015 11:39:04 AM	Precipitation	0		
End Date	4/29/2015 2:30:12 PM	Cloud Cover	5.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Waterfowl Stopover and Staging Areas (Aquatic)

Feature Description 207

Open water wetland with hummocks and mats of shrubs. Bedrock shorelines. Also suitable turtle overwinteri g. Heard American bittern.



Feature Location

Latitude:45.872273,Longitude:-80.712549,Altitude:185.9,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/29/2015 11:40:04 EDT

Map Number		Field Crew			288
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 210

Landscape with a mix of flat bedrock, bedrock with cracks and fissures, scattered clusters of boulder and small bogs. Trees and shrubs for some cover.



Feature Location

Latitude:45.867483,Longitude:-80.707351,Altitude:188.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/29/2015 12:35:14 EDT

Map Number		Field Crew		291

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Turtle Wintering Areas

Feature Description 213

Open water wetland bordered by shore fen. Water depth at least 1 m, appears to be soft substrate



Feature Location

Latitude:45.859491,Longitude:-80.696858,Altitude:184.5,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/29/2015 01:25:29 EDT

Map Number		Field Crew		294	
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 216

Bedrock with fissures and boulder. Bogs next to bedrock. Facing south, juniper and jack pine for cover.



Feature Location

Latitude:45.856962,Longitude:-80.692193,Altitude:189.3,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/29/2015 02:16:58 EDT

Map Number	S-M35	Field Crew	NATALIA SIMONOVA ADAM M	297	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	4/29/2015 11:19:35 AM	Precipitation	0		
End Date	4/29/2015 11:30:37 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Five-lined Skink

Observation Notes 264

Rocknes area between bedrock land community with. Pinus strobus and Pinus banksiana canopy cover 20 %



Observation Location

Latitude:45.826381,Longitude:-80.659516,Altitude:197.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/29/2015 11:22:27 EDT

Map Number		Field Crew		300

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 267

Basking in vegetation

Observation Location

Latitude:45.871882,Longitude:-80.64243,Altitude:183.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/29/2015 09:40:01 EDT



Map Number		Field Crew		303	

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Cliffs and Talus Slopes

Feature Description 219

Rock cliff roughly 3 meters in height. Feature includes several fissures and crevices which go below frostline. Feature. Would provide ranking habitat for mammals and snakes. Surrounding habitats is coniferous forest below and treed barren above.



Feature Location

Latitude:45.856286,Longitude:-80.648355,Altitude:193.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/29/2015 03:00:08 EDT

Map Number	S-m49	Field Crew	JOHANNA PEREZ, JASON NORONHA		309
Feature ID	Bat-s-m49-227	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/30/2015 12:00:40 PM	Precipitation	0		
End Date	4/30/2015 4:47:15 PM	Cloud Cover	25.00		

Wildlife Habitat Observations

Feature: Waterfowl Nesting Areas

Feature Description 225

Lease Bittern habitat



Feature Location

Latitude:45.830437,Longitude:-80.711599,Altitude:182.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/30/2015 11:27:10 EDT

Map Number		Field Crew		312

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Common nighthawk

Observation Notes 273

Compared favouribly to calls. Calling at 10 am - habitat includes treed barren.

Observation Location

Latitude:45.863807,Longitude:-80.703377,Altitude:179.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:09:50 EDT



Map Number	S-M32	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA		315
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	4/30/2015 9:02:38 AM	Precipitation	0		
End Date	4/30/2015 9:55:40 AM	Cloud Cover	70.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 228

Large cave in cliffSignificant scat present, may be porcupine



Feature Location

Latitude:45.836916,Longitude:-80.673359,Altitude:176.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/30/2015 09:04:49 EDT

Map Number	S-NA	Field Crew	SARAH RICHER		318
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	3	Sunny, temp 18 C	
Start Date	4/30/2015 4:20:08 PM	Precipitation	0		
End Date	4/30/2015 4:20:32 PM	Cloud Cover	50.00		

Wildlife Observations

Species: Blanding's Turtle

Observation Notes 276

ACTUAL LOCATION N 45.86176, W 80.60697; in same tiny roadside pond as first observed by Sarah Richer May 2011, May 1 2012, and May 1 2013 and June 2013, now again April 30 2015. Cool! Pond subject to roadside fill and other activities :(moved too quick for photo.

Observation Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:

Map Number	S-M32	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA	321

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4	Sunny breaks	
Start Date	4/30/2015 10:34:05 AM	Precipitation	0		
End Date	4/30/2015 10:34:07 AM	Cloud Cover	75.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 279

Juvenile rattlesnake basking



Observation Location

Latitude:45.8334,Longitude:-80.658162,Altitude:189.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:34:29 EDT

Map Number	S-M14	Field Crew	KRISTAN WASHBURN	324

Feature ID	Sw1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	1		
Start Date	4/29/2015 1:02:21 PM	Precipitation	0		
End Date	4/29/2015 1:02:24 PM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Turtle Wintering Areas
Feature Description	231

Two blanding's turtles and seven painted turtles basking



Feature Location

Latitude:45.849636,Longitude:-80.633161,Altitude:185.6,Speed:0.051444445,Accuracy:3.9,Provider:gps,Time:04/29/2015 01:00:53 EDT

Map Number	S-m7, n-m2	Field Crew	AMY INGRISELLI	327	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	4/30/2015 10:40:53 AM	Precipitation	0		
End Date	4/30/2015 3:30:04 PM	Cloud Cover	75.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula
Feature Description	234

Lichen-covered bedrock with pile of boulders facing south. Conifer swamp adjacent to bedrock.



Feature Location

Latitude:45.847322,Longitude:-80.599953,Altitude:209.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:43:07 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 237

Lichen-covered bedrock with pile of boulders. Shrubs and occasional conifer for cover, open canopy over bedrock. Conifer swamp adjacent to bedrock.



Feature Location

Latitude:45.846487,Longitude:-80.59815,Altitude:214.4,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:04/30/2015 11:02:36 EDT

Feature: Turtle Wintering Areas

Feature Description: 240

Open water beaver pond with depth over 1m organic substrate and basking structures



Feature Location

Latitude:45.884877,Longitude:-80.577403,Altitude:202.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/30/2015 02:15:57 EDT

Feature: Reptile Hibernacula

Feature Description: 243

Boulders on south side of slope near open water wetland. Shrubs on bedrock for cover



Feature Location

Latitude:45.884883,Longitude:-80.577394,Altitude:201.6,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/30/2015 02:17:11 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 282

In wet, low-lying forested (black ash, conifer swamp) near bedrock. Spotted near SN-n-m2-18



Observation Location

Latitude:45.886076,Longitude:-80.577294,Altitude:209.2,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:41:10 EDT

Map Number	S-m50	Field Crew	AMY INGRISELLI	330	
Feature ID	SN-s-m50-7	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/1/2015 10:19:00 AM	Precipitation	0		
End Date	5/1/2015 11:30:18 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 246

Broken bedrock outcrop with open canopy and cover provided by juniper, boulders and blow-down. Conifer swamp and open water wetland adjacent to bedrock. Boulders in conifer swamp. Garter snake observed. Nice habitat.



Feature Location

Latitude:45.827138,Longitude:-80.709867,Altitude:186.3,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:31:20 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Midland painted turtle

Observation Notes 285

6turtles basking on logs. Same wetland as tu-s-m50-7, further north.



Observation Location

Latitude:45.82685,Longitude:-80.709972,Altitude:196.4,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:05/01/2015 11:22:58 EDT

Map Number	S-M5	Field Crew	AMY INGRISELLI AND NATALIA SIMONOVA		336
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	4/15/2015 9:06:53 AM	Precipitation	0		
End Date	4/15/2015 5:10:12 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Northern goshawk

Observation Notes 291

Coordinates in previous field are incorrect. Goshawkheard flying overhead approximately. 100 m west of. 45.84209,, -80.58883

Observation Location

Latitude:43.8389665,Longitude:-79.383926,Altitude:0.0,Speed:0.0,Accuracy:444.0,Provider:network,Time:04/15/2015 05:08:00 EDT

Map Number	S-M4	Field Crew	KASEY MCKENZIE & CASEY O'DRISCOLL	354

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	5/6/2015 8:25:28 AM	Precipitation	0		
End Date	5/6/2015 8:27:31 AM	Cloud Cover	5.00		

Wildlife Habitat Observations

Feature: Seeps and Springs

Feature Description 261

Ground water recharge, flows underground to stream along bekanan



Feature Location

Latitude:45.850115,Longitude:-80.570772,Altitude:186.7,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:05/06/2015 08:20:39 EDT

Map Number	S-M21	Field Crew	AMY INGRISELLI AMI ARSENAULT		372
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	3		
Start Date	5/7/2015 10:56:10 AM	Precipitation	0		
End Date	5/7/2015 2:29:09 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Woodland Raptor Nesting Habitat

Feature Description 270

Stick near on top of snag in swamp. Open water with maps/patches of marsh veg. Numerous snags. Also suitable turtle overwintering and waterfowl stopover habitat. Saw pair of great blue herons flying over swamp. Heard red-winged blackbird, swamp sparr



Feature Location

Latitude:45.829919,Longitude:-80.62348,Altitude:193.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/07/2015 11:01:07 EDT

Map Number	N-M9, N-M19, N-M40	Field Crew	JOHANNA PEREZ, SARAH RICHER		375
Feature ID	SN-N-M9-18	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/7/2015 10:03:30 AM	Precipitation	0		
End Date	5/7/2015 5:07:49 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 273

Side of rock barren, crevice that may go blow the frost line, nearby veg that provides structure including white pine, dead wood, red maple saplings, juniper



Feature Location

Latitude:45.885654,Longitude:-80.631221,Altitude:193.5,Speed:0.14918889,Accuracy:1.5,Provider:gps,Time:05/07/2015 10:04:25 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 276

Not hibernacula, is ideal snake gestation habitat although outside of a snake 'basking'' survey site; lots of open rock, variety of structure for cover and shelter for prey/foraging



Feature Location

Latitude:45.88545,Longitude:-80.634662,Altitude:191.8,Speed:0.05658889,Accuracy:1.25,Provider:gps,Time:05/07/2015 10:24:19 EDT

Feature: Reptile Hibernacula

Feature Description: 279

West/southwest facing boulder-y slope adjacent to rock barren and small Sphagnum bog



Feature Location

Latitude:45.885394,Longitude:-80.63519,Altitude:185.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/07/2015 10:34:34 EDT

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 282

Large, thin section of rock barren that could be used as denning site for small mammals. Surrounding veg is lichen, junipers, jack pine



Feature Location

Latitude:45.883823,Longitude:-80.649845,Altitude:189.6,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:05/07/2015 11:48:13 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 285

3 m rock barren cliff consisting of boulders with numerous deep crevices that may be suitable for gestation or hiberating reptiles (not sure if refuge below frost line). Also site that can be used as bat maternity roost. May also be potential denning sit



Feature Location

Latitude:45.881583,Longitude:-80.693214,Altitude:186.4,Speed:0.0051444443,Accuracy:1.25,Provider:gps,Time:05/07/2015 02:32:43 EDT

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 288

Surprisingly large and hidden potential denning sitr on rock barren. Mouth of cave surrounded on south and east sides by juniper. Also jack pine trees nearby. Tunnel on right side extends downward to potentially below the frostline and may be suitable re



Feature Location

Latitude:45.880521,Longitude:-80.691643,Altitude:184.7,Speed:0.0,Accuracy:1.75,Provider:gps,Time:05/07/2015 03:08:25 EDT

Map Number	N-M19	Field Crew	JOHANNA PEREZ, SARAH RICHER		378
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	0		
Start Date	5/7/2015 1:08:54 PM	Precipitation	0		
End Date	5/7/2015 1:08:02 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 291

Rock ledge, dug out underneath approximately 8-10 ft back, over a foot high inside in some spots, entrance approximately 4 feet wide evidence of porcupine scat,



Feature Location

Latitude:45.886003,Longitude:-80.6552,Altitude:189.4,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/07/2015 12:56:34 EDT

Map Number	A-M1	Field Crew	ADAM, NATALIYA	393

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/7/2015 10:06:05 AM	Precipitation	0		
End Date	5/7/2015 10:08:53 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 306

Rock outcrop in deciduous forest, faces southwest



Feature Location

Latitude:45.889502,Longitude:-80.56416,Altitude:188.8,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/07/2015 10:07:30 EDT

Map Number	A-M1	Field Crew	ADAM, NATALIYA	396

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes
Tablet	AECOM7	Wind Speed (beaufort)	2	
Start Date	5/7/2015 10:37:10 AM	Precipitation	0	
End Date	5/7/2015 10:39:51 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 309

Old quarry with deep pondSmall birch and juniper growing



Feature Location

Latitude:45.889959,Longitude:-80.563427,Altitude:197.5,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/07/2015 10:38:18 EDT

Map Number	A-M1	Field Crew	ADAM, NATALIYA		399
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/7/2015 11:58:40 AM	Precipitation	0		
End Date	5/7/2015 11:59:20 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Snapping turtle

Observation Notes 336

Moved into submergent vegetation



Observation Location

Latitude:45.890023,Longitude:-80.557585,Altitude:196.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/07/2015 12:00:06 EDT

Map Number	A-M1	Field Crew	ADAM, NATALIYA		402
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/7/2015 12:02:33 PM	Precipitation	0		
End Date	5/7/2015 12:04:50 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 339

Basking



Observation Location

Latitude:45.890031,Longitude:-80.557589,Altitude:196.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/07/2015 12:03:32 EDT

Map Number	A-M1	Field Crew	ADAM, NATALIYA	405

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/7/2015 12:08:28 PM	Precipitation	0		
End Date	5/7/2015 12:10:54 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Midland painted turtle

Observation Notes 342

5 individuals basking on a log

Observation Location

Latitude:45.890014,Longitude:-80.557596,Altitude:197.7,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:05/07/2015 12:09:21 EDT



Species: Midland painted turtle

Observation Notes 345

3 individuals basking on a log

Observation Location

Latitude:45.890015,Longitude:-80.557604,Altitude:197.9,Speed:0.16976666,Accuracy:2.4,Provider:gps,Time:05/07/2015 12:10:24 EDT



Map Number	A-M2	Field Crew	ADAM, NATALIYA	408

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/7/2015 12:30:08 PM	Precipitation	0		
End Date	5/7/2015 12:30:33 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 312

Small den in rock outcrop, faces southDeciduous forest; trembling aspen, red maple



Feature Location

Latitude:45.890072,Longitude:-80.554241,Altitude:201.2,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:05/07/2015 12:30:59 EDT

Map Number	A-M3	Field Crew	ADAM, NATALIYA		411
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/7/2015 3:15:28 PM	Precipitation	0		
End Date	5/7/2015 3:16:35 PM	Cloud Cover	5.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 315

Rock outcrop facing southwest. A few openings may be deep. Elevated location.



Feature Location

Latitude:45.890083,Longitude:-80.543896,Altitude:211.2,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/07/2015 03:11:55 EDT

Map Number	A-M2	Field Crew	AMI BILL		414
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1	Overcast with drizzle and light rain	
Start Date	5/11/2015 10:18:38 AM	Precipitation	1		
End Date	5/11/2015 10:18:40 AM	Cloud Cover	100.00		

Wildlife Observations

Species: Black Bear

Observation Notes 348

Scratch marks on tree



Observation Location

Latitude:45.89045,Longitude:-80.550271,Altitude:188.9,Speed:0.07716667,Accuracy:2.0,Provider:gps,Time:05/11/2015 10:18:01 EDT

Map Number	A-M2	Field Crew	AMI BILL	417

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1	Overcast	
Start Date	5/11/2015 11:19:44 AM	Precipitation	1		
End Date	5/11/2015 11:20:15 AM	Cloud Cover	100.00		

Wildlife Observations

Species: White-tailed Deer

Observation Notes 351

Came across white tailed deer - calm

Observation Location

Latitude:45.890331,Longitude:-80.554166,Altitude:204.5,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:05/11/2015 11:21:05 EDT



Map Number	N-M3	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL		429
Feature ID	Elc-n-m3(344)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	5/11/2015 9:32:46 AM	Precipitation	1		
End Date	5/11/2015 5:44:14 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

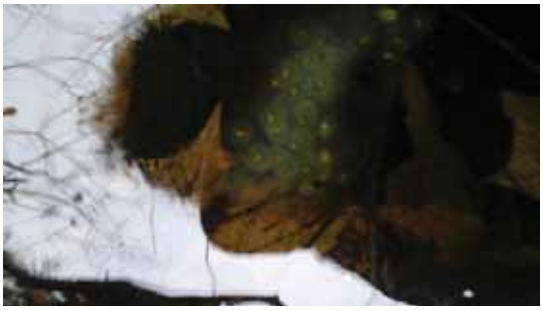
AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 321

Long linear. Vernal (old skidded trail). Approximately 40 m long and. 2 m wide.20 cm depth3 egg masses (spotted salamander)



Feature Location

Latitude:45.877505,Longitude:-80.582162,Altitude:195.5,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/11/2015 09:34:01 EDT

Wildlife Observations

Species: Ovenbird

Observation Notes 381

Calling

Observation Location

Latitude:45.876909,Longitude:-80.582457,Altitude:191.4,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/11/2015 09:02:20 EDT

Wildlife Observations - WEC

AECOM

Species: Black-throated Green Warbler

Observation Notes: 384

Calling

Observation Location

Latitude:45.876918,Longitude:-80.582466,Altitude:191.9,Speed:0.11832222,Accuracy:1.5,Provider:gps,Time:05/11/2015 09:02:48 EDT

Species: Red-breasted Nuthatch

Observation Notes: 387

Calling

Observation Location

Latitude:45.87692,Longitude:-80.582469,Altitude:192.4,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/11/2015 09:03:16 EDT

Species: Common Yellowthroat

Observation Notes: 390

Call

Observation Location

Latitude:45.877929,Longitude:-80.581384,Altitude:215.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/11/2015 11:07:31 EDT

Wildlife Observations - WEC

AECOM

Species: Hermit Thrush

Observation Notes: 393

Call

Observation Location

Latitude:45.877929,Longitude:-80.581384,Altitude:215.7,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/11/2015 11:08:02 EDT

Species: Nashville Warbler

Observation Notes: 396

Call

Observation Location

Latitude:45.877925,Longitude:-80.581392,Altitude:215.7,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/11/2015 11:08:29 EDT

Species: Pileated Woodpecker

Observation Notes: 399

Call

Observation Location

Latitude:45.877505,Longitude:-80.582162,Altitude:,Speed:,Accuracy:,Provider:,Time:

Wildlife Observations - WEC

AECOM

Species: Black-capped Chickadee

Observation Notes: 402

Call

Observation Location

Latitude:45.877505,Longitude:-80.582162,Altitude:,Speed:,Accuracy:,Provider:,Time:

Species: White-throated Sparrow

Observation Notes: 405

Call

Observation Location

Latitude:45.877505,Longitude:-80.582162,Altitude:,Speed:,Accuracy:,Provider:,Time:

Species: Red-eyed Vireo

Observation Notes: 408

Calling

Observation Location

Latitude:45.880926,Longitude:-80.581008,Altitude:208.3,Speed:0.0,Accuracy:1.75,Provider:gps,Time:05/11/2015 01:30:26 EDT

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Species: Ruffed grouse

Observation Notes 411

Drumming

Observation Location

Latitude:45.880929,Longitude:-80.581011,Altitude:208.1,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/11/2015 01:30:55 EDT

Species: Northern Flicker

Observation Notes 414

Call

Observation Location

Latitude:45.880847,Longitude:-80.581059,Altitude:207.9,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/11/2015 01:45:51 EDT

Map Number	N-M2	Field Crew	JULIE ELLIS, SARAH RICHER		432
Feature ID	Elc-n-m2 (421)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 9:57:03 AM	Precipitation	1		
End Date	5/11/2015 5:43:43 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 324

Rock barren, flat rock with juniper cover gestation not hibernacula



Feature Location

Latitude:45.887243,Longitude:-80.576267,Altitude:194.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/11/2015 09:58:04 EDT

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 327

Small pool , some capability to hold water to july, sphagnum over bedrock, no egg masses present, some aquatic emergents



Feature Location

Latitude:45.88653,Longitude:-80.576864,Altitude:199.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/11/2015 10:05:52 EDT

Wildlife Observations - WEC

AECOM

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 330

Large pool can hold water to july,leave litter and grass as substrate, no moss or soil some emergent veg, large wetland adjacent smaller pools around also



Feature Location

Latitude:45.885471,Longitude:-80.577102,Altitude:191.1,Speed:0.0,Accuracy:1.8,Provider:gps,Time:05/11/2015 10:47:14 EDT

Feature: Reptile Hibernacula

Feature Description: 333

Peep cracks potentially below frost line plus loose rocks



Feature Location

Latitude:45.88533,Longitude:-80.577176,Altitude:197.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/11/2015 10:51:48 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Spring peeper

Observation Notes 417

Heard calling

Observation Location

Latitude:45.885315,Longitude:-80.577179,Altitude:197.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/11/2015 10:54:38 EDT

Map Number: 60341251 Field Crew: OLGA HROPACH NATALIYA SIMONOVA 435

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes
Tablet	AECOM7	Wind Speed (beaufort)	1	
Start Date	5/11/2015 7:50:14 AM	Precipitation	0	
End Date	5/11/2015 5:50:27 PM	Cloud Cover	100.00	

Wildlife Habitat Observations

Feature: Seeps and Springs

Feature Description 336

Pool, 1m by 2m, silt at the bottom. Very deep, at least 60cm; the soil auger keeps sinking in. Depth of water is 30 cm, clear water. No groundwater nidcators; no amphibians observed.



Feature Location

Latitude:45.886825,Longitude:-80.566851,Altitude:174.2,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/11/2015 08:27:34 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 339

Entire swamp polygon consists of wet hummocky floor may act as hibernacula.



Feature Location

Latitude:45.886699,Longitude:-80.567436,Altitude:193.5,Speed:0.06173333,Accuracy:2.7,Provider:gps,Time:05/11/2015 10:07:48 EDT

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 342

Entire polygon contains small vernal pools less than 30 cm deep but over wet overall, lots if moss and downfall fir salamanders to hide under.



Feature Location

Latitude:45.886703,Longitude:-80.567452,Altitude:193.7,Speed:0.03601111,Accuracy:2.7,Provider:gps,Time:05/11/2015 10:09:44 EDT

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 345

LARGE VERNAL POOL Don hated by black ash; 30 cm deep, potential to hold water; no amphibians observed



Feature Location

Latitude:45.888,Longitude:-80.572831,Altitude:196.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/11/2015 03:24:50 EDT

Wildlife Observations - WEC

AECOM

Feature: Seeps and Springs

Feature Description (348): Iron staining



Feature Location: Latitude:45.888621,Longitude:-80.574919,Altitude:182.7,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/11/2015 04:07:34 EDT

Wildlife Observations

Species: Spring Peeper

Observation Notes (420): Spring Peeper walking on forest floor

Observation Location: Latitude:45.88701,Longitude:-80.568111,Altitude:180.9,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/11/2015 09:07:57 EDT

Map Number	N-M2	Field Crew	ELLIS RICHER		438
Feature ID	Elc-n-m2-(343a)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 2:08:06 PM	Precipitation	0		
End Date	5/11/2015 2:08:31 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 351

Rocky slope on rock barren, south facing, Crack and crevices with juniper cover. Gestation not hibernacula



Feature Location

Latitude:45.882613,Longitude:-80.580125,Altitude:204.0,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/11/2015 02:10:33 EDT

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 354

Large hole, opening approx 30 cm across



Feature Location

Latitude:45.882753,Longitude:-80.579936,Altitude:199.2,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/11/2015 02:16:01 EDT

Map Number	N-M1	Field Crew	ELLIS RICHER		441
Feature ID	Elc-n-m1 (106)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 4:40:39 PM	Precipitation	0		
End Date	5/11/2015 4:41:01 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Cliffs and Talus Slopes

Feature Description: 357

Cliff 6;m tall, lichen and moss covered , some small crevices feature located a base of forested slope and running parallel to creek.



Feature Location

Latitude:45.887987,Longitude:-80.574815,Altitude:192.3,Speed:0.09774444,Accuracy:2.7,Provider:gps,Time:05/11/2015 04:41:20 EDT

Map Number		Field Crew		444	
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 360

Scattered bolders possible gestation or hibernaculum



Feature Location

Latitude:45.873239,Longitude:-80.592247,Altitude:202.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/11/2015 01:59:23 EDT

Map Number	42	Field Crew	AMI AND AMY	456

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3	Overcast cold	
Start Date	5/12/2015 11:44:04 AM	Precipitation	0		
End Date	5/12/2015 11:44:06 AM	Cloud Cover	100.00		

Wildlife Observations

Species: Red-bellied snake

Observation Notes 426

Found snake in bog, almost stepped on. Slithered northwest

Observation Location

Latitude:45.852723,Longitude:-80.691969,Altitude:183.0,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/12/2015 11:43:02 EDT



Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL		459
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	6		
Start Date	5/12/2015 10:52:35 AM	Precipitation	0		
End Date	5/12/2015 5:07:01 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 369

Vernal pool within rock barren.Wetland approximately 10 m long and 4 m wideAvg depth 20 cmObserved dead frog



Feature Location

Latitude:45.876192,Longitude:-80.616943,Altitude:191.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/12/2015 10:49:06 EDT

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 372

Vernal pool approximately 10 m long and 8 m wideApproximately 30 cm avg depthPotential. To hold water until julyNo amphibians or egg masses observed at time of survey



Feature Location

Latitude:45.881405,Longitude:-80.617956,Altitude:190.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/12/2015 02:16:24 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: White-throated Sparrow

Observation Notes: 429

Call

Observation Location

Latitude:45.876642,Longitude:-80.616947,Altitude:195.4,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/12/2015 11:22:53 EDT

Species: Yellow-rumped Warbler

Observation Notes: 432

Calling

Observation Location

Latitude:45.876642,Longitude:-80.616947,Altitude:195.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/12/2015 11:23:25 EDT

Species: Spring Peeper

Observation Notes: 435

Multiple individuals calling

Observation Location

Latitude:45.876642,Longitude:-80.616948,Altitude:195.5,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/12/2015 11:23:55 EDT

Wildlife Observations - WEC

AECOM

Species: Black-capped Chickadee

Observation Notes 438

Call

Observation Location

Latitude:45.876642,Longitude:-80.616948,Altitude:195.5,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:05/12/2015 11:24:25 EDT

Species: Canada Goose

Observation Notes 441

Calling

Observation Location

Latitude:45.876643,Longitude:-80.616948,Altitude:195.6,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:05/12/2015 11:25:08 EDT

Map Number	N-M12	Field Crew	OLGA NATALIYA		462
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/12/2015 11:12:36 AM	Precipitation	0		
End Date	5/12/2015 4:15:40 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 375

Lots of fissured ricks on a cliff, 3 m high. At bottom of cliff, also fissured rocks and boulders which can provide cover. Unsure if there's potential to reach below freezing line.



Feature Location

Latitude:45.869377,Longitude:-80.618371,Altitude:184.0,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:05/12/2015 11:13:30 EDT

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 378

Two vernal pools created by shallow beaver dam. Both pools are approximately 50 cm deep; located at bottom of a rock barren cliff. Presence of submerged vegetation. No amphibians heard or observed, no egg masses.



Feature Location

Latitude:45.86924,Longitude:-80.618378,Altitude:181.8,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:05/12/2015 11:20:34 EDT

Map Number	S-NA	Field Crew	JOHANNA PERZ, ROB CONOHAN	477	
Feature ID	Near S-M37	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/13/2015 9:42:14 AM	Precipitation	0		
End Date	5/13/2015 6:02:38 PM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Blanding's turtle

Observation Notes 456

Basking on sedge hummock on sandy edge of beaver pond. Nearby habitat includes open marsh with emergent vegetation to the west, alder swamp to north and confiferous forest on east across beaver pond



Observation Location

Latitude:45.833198,Longitude:-80.676597,Altitude:177.0,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/13/2015 09:34:57 EDT

Species: Ruffed grouse

Observation Notes 459

Nest under shrub between edge of beaver pond and conifer forest edge about 20m east



Observation Location

Latitude:45.8332,Longitude:-80.676597,Altitude:176.4,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/13/2015 09:39:21 EDT

Species: Eastern Gartersnake

Observation Notes 462

30cm sunning in leaf litter facing west

Observation Location

Latitude:45.82554,Longitude:-80.687964,Altitude:192.8,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/13/2015 10:46:14 EDT

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Species: Blanding's turtle

Observation Notes 465

12 Blandings Turtles observed on the shore of the pond. Significant number at this location.



Observation Location

Latitude:45.827237,Longitude:-80.710253,Altitude:184.1,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:05/13/2015 02:13:23 EDT

Map Number: S-M31 | Field Crew: JESSICA WALKER AND ADAM MCCLELLAND 480

Feature ID	N/A	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	3	
Start Date	5/13/2015 9:05:52 AM	Precipitation	0	
End Date	5/13/2015 9:09:43 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)

Feature Description 381

One stick nest in snag



Feature Location

Latitude:45.841262,Longitude:-80.656897,Altitude:182.2,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/13/2015 09:07:39 EDT

Map Number: N-M49 | Field Crew: AMY INGRISELLI AMI ARSENAULT 483

Wildlife Observations - WEC

AECOM

Feature ID	WB-n-M49-46	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	5/13/2015 12:41:30 PM	Precipitation	0		
End Date	5/13/2015 4:30:33 PM	Cloud Cover	5.00		

Wildlife Observations

Species: Snapping turtle

Observation Notes 468

Basking approximately 10m east from location. Turtle basking survey location



Observation Location

Latitude:45.872593,Longitude:-80.712787,Altitude:175.2,Speed:0.0,Accuracy:1.5,Provider:gps,Time:05/13/2015 12:42:44 EDT

Species: Eastern Massasauga Rattlesnake

Observation Notes 471

Snake hid in crack in bedrock before photo could be taken. Positive Id. Took photo of observation location.



Observation Location

Latitude:45.855238,Longitude:-80.690922,Altitude:171.7,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/13/2015 04:34:22 EDT

Map Number	S-NA	Field Crew	SARAH RICHER, BILL MCLEOD	486

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	2		
Start Date	5/13/2015 11:28:05 AM	Precipitation	0		
End Date	5/13/2015 11:29:38 AM	Cloud Cover	20.00		

Wildlife Habitat Observations

Feature: Bald Eagle and Osprey Nesting, Foraging and Perching Habitat

Feature Description 384

Osprey nest, currently unused, in dead tree in middle of active beaver pond



Feature Location

Latitude:45.845025,Longitude:-80.603714,Altitude:200.9,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/13/2015 02:05:37 EDT

Feature: Reptile Hibernacula

Feature Description 387

Snake hibernacula, snake gestation, lizard (skink) nesting habitat



Feature Location

Latitude:45.846205,Longitude:-80.604772,Altitude:205.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/13/2015 02:22:05 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 474

Adult, sunning in coil on lichen, did not rattle until it went under a flat rock. Moved too quickly for a photo, picture is of the rock it went under



Observation Location

Latitude:45.833588,Longitude:-80.601594,Altitude:200.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/13/2015 11:30:40 EDT

Species: Moose and White-tailed Deer browse area

Observation Notes 477

Although no live animals observed, area shows evidence of heavy amounts of browse by both moose & deer, also skeletal remains of adult moose



Observation Location

Latitude:45.84672,Longitude:-80.59981,Altitude:211.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/13/2015 03:20:45 EDT

Map Number	N-M5	Field Crew	ELLIS, NORONHA	489	
Feature ID	Elc-n-m5 (144)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/12/2015 10:12:30 AM	Precipitation	0		
End Date	5/12/2015 10:12:54 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 390

Vernal pool, collection of at least 5. Few with 30 cm water, will maintain until July . Substrate leave litter and sphagnum no emergent, black ash



Feature Location

Latitude:45.871634,Longitude:-80.596104,Altitude:192.7,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:05/12/2015 10:13:12 EDT

Map Number	N-M1	Field Crew	JULIE AYESHA CORY		492
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/13/2015 11:04:36 AM	Precipitation	0		
End Date	5/13/2015 5:15:29 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Northern Watersnake

Observation Notes 480

Basking in grass in ditch along highway, photos on Ayesha 's camera. Back of snake covered in silt making initial ID difficult think it has been spending time in near by culvert. Round pupil creamy belly with brown crescent shaped spots. Keeled scales. Approximately 6 cm long

Observation Location

Latitude:45.886575,Longitude:-80.566263,Altitude:191.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/13/2015 11:05:28 EDT

Map Number	N-M1	Field Crew	JULIE AYESHA	495

Wildlife Observations - WEC

AECOM

Feature ID	BAT-N-M1-248	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM12	Wind Speed (beaufort)	2	
Start Date	5/13/2015 1:35:38 PM	Precipitation	0	
End Date	5/13/2015 1:35:40 PM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 393

Long cliff face with cracks that may extend beyond the frost line, west facing



Feature Location

Latitude:45.887805,Longitude:-80.574772,Altitude:190.1,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/13/2015 01:36:26 EDT

Map Number	N-M40	Field Crew	ADAM, AYESHA		513
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	4		
Start Date	5/14/2015 1:45:51 PM	Precipitation	0		
End Date	5/14/2015 1:47:39 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 396

Several deep crevasses in rock barren



Feature Location

Latitude:45.880529,Longitude:-80.691287,Altitude:182.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/14/2015 01:47:20 EDT

Map Number	N-M40	Field Crew	ADAM, AYESHA	516

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	4		
Start Date	5/14/2015 2:02:49 PM	Precipitation	0		
End Date	5/14/2015 2:05:05 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 399

Several deep crevasses facing southeast, adjacent to wetland



Feature Location

Latitude:45.881091,Longitude:-80.692827,Altitude:178.5,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/14/2015 02:04:37 EDT

Map Number		Field Crew		519

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Red-eyed Vireo

Observation Notes 498

Call

Observation Location

Latitude:45.869196,Longitude:-80.605818,Altitude:187.6,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/14/2015 09:45:51 EDT

Species: Black-capped Chickadee

Observation Notes 501

Call

Observation Location

Latitude:45.869196,Longitude:-80.605818,Altitude:187.6,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:05/14/2015 09:46:16 EDT

Wildlife Observations - WEC

AECOM

Species: Black-throated Green Warbler

Observation Notes: 504

Call

Observation Location

Latitude:45.869197,Longitude:-80.605814,Altitude:187.7,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:05/14/2015 09:46:36 EDT

Species: Blue Jay

Observation Notes: 507

Call

Observation Location

Latitude:45.869197,Longitude:-80.605813,Altitude:187.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/14/2015 09:47:12 EDT

Species: Common Yellowthroat

Observation Notes: 510

Call

Observation Location

Latitude:45.869197,Longitude:-80.605813,Altitude:187.6,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/14/2015 09:47:28 EDT

Wildlife Observations - WEC

AECOM

Species: Spring Peeper

Observation Notes: 513

Call

Observation Location

Latitude:45.869197,Longitude:-80.605813,Altitude:187.6,Speed:0.11317778,Accuracy:2.1,Provider:gps,Time:05/14/2015 09:47:43 EDT

Species: Yellow Warbler

Observation Notes: 516

Call

Observation Location

Latitude:45.869196,Longitude:-80.605803,Altitude:187.3,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:05/14/2015 09:48:25 EDT

Species: Ovenbird

Observation Notes: 519

Call

Observation Location

Latitude:45.869196,Longitude:-80.605803,Altitude:187.3,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/14/2015 09:48:57 EDT

Wildlife Observations - WEC

AECOM

Species: Black-and-white Warbler

Observation Notes: 522

Call

Observation Location

Latitude:45.869198,Longitude:-80.605802,Altitude:187.2,Speed:0.030866666,Accuracy:2.7,Provider:gps,Time:05/14/2015 09:49:35 EDT

Species: Broad-winged Hawk

Observation Notes: 525

Soaring from north to south2 flew down east along inlet

Observation Location

Latitude:45.863194,Longitude:-80.607442,Altitude:174.9,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:05/14/2015 11:23:33 EDT

Species: Chestnut-sided Warbler

Observation Notes: 528

Call

Observation Location

Latitude:45.863213,Longitude:-80.607442,Altitude:179.4,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:05/14/2015 11:32:25 EDT

Map Number: S-M42 Field Crew: ROB CONOHAN, JOHANNA PERZ, DAVE NORMAN 522

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/14/2015 11:43:22 AM	Precipitation	0		
End Date	5/14/2015 5:43:26 PM	Cloud Cover	25.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 531

50cm healthy adult



Observation Location

Latitude:45.811775,Longitude:-80.642534,Altitude:187.3,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:05/14/2015 11:44:58 EDT

Species: Common Nighthawk

Observation Notes 534

Bird flushed from shoreline.

Observation Location

Latitude:45.81089,Longitude:-80.664751,Altitude:175.8,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:05/14/2015 03:40:17 EDT

Wildlife Observations - WEC

AECOM

Species: Blanding's turtle

Observation Notes 537

Two old nests, large number of eggshell fragments. One may have been predated



Observation Location

Latitude:45.810842,Longitude:-80.661059,Altitude:179.9,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/14/2015 03:51:35 EDT

Map Number	N-M46	Field Crew	JULIE KASEY		525
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/14/2015 11:54:30 AM	Precipitation	0		
End Date	5/14/2015 11:54:32 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 402

Sphagnum and root Hummocks

Feature Location

Latitude:45.858954,Longitude:-80.698669,Altitude:174.4,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/14/2015 11:55:10 EDT

Map Number	N-M36	Field Crew	AMI AMY	528

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM16	Wind Speed (beaufort)	4	
Start Date	5/14/2015 4:43:37 PM	Precipitation	0	
End Date	5/14/2015 4:43:39 PM	Cloud Cover	0.00	

Wildlife Observations

Species: Blanding's turtle

Observation Notes 540

Turtle basking on rock in middle of stream. Dove into water when saw us.



Observation Location

Latitude:45.8557,Longitude:-80.677024,Altitude:185.4,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:05/14/2015 04:45:27 EDT

Map Number	N-NA	Field Crew	WALKER AND CARMICHAEL	531

Feature ID	Mao 28 no feature	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	3	
Start Date	5/14/2015 11:15:37 AM	Precipitation	0	
End Date	5/14/2015 1:59:02 PM	Cloud Cover	5.00	

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 405

Good location for snake basking/ gestation. Lots of places under rock and adjacent to vegetation cover for individuals to bask and hide.



Feature Location

Latitude:45.84931,Longitude:-80.660297,Altitude:181.4,Speed:0.2315,Accuracy:1.5,Provider:gps,Time:05/14/2015 11:44:34 EDT

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes: 543

Basking on wrotten log



Observation Location

Latitude:45.866341,Longitude:-80.662519,Altitude:181.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:13:20 EDT

Map Number	N-M19	Field Crew	ADAM, AYESHA	543	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	4		
Start Date	5/19/2015 9:38:24 AM	Precipitation	0		
End Date	5/19/2015 9:42:18 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 549

Resting on rocks. Potential foraging site - rock barren with juniper; low canopy cover.



Observation Location

Latitude:45.887791,Longitude:-80.655622,Altitude:187.7,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:05/19/2015 09:39:52 EDT

Map Number: N-M2 | Field Crew: KRISTA WASHBURN | 564

Feature ID	TU-N-M02-18	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes
Tablet	AECOM9	Wind Speed (beaufort)	2	
Start Date	5/19/2015 12:29:08 PM	Precipitation	1	
End Date	5/19/2015 12:29:10 PM	Cloud Cover	80.00	

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description 417

Several frogs heard good sizedbeaver ram. Leopard frog and spring peepers



Feature Location

Latitude:45.884857,Longitude:-80.577664,Altitude:195.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/19/2015 12:28:17 EDT

Map Number: | Field Crew: | 567

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Seeps and Springs

Feature Description 420

Rust colour in small stream running into wetland



Feature Location

Latitude:45.885427,Longitude:-80.576764,Altitude:187.0,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/19/2015 12:49:21 EDT

Map Number	N-M13	Field Crew	A INGRISELLI JESSICA MENDOZA		570
Feature ID	WB-N-M13-36	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	5/20/2015 10:57:40 AM	Precipitation	0		
End Date	5/20/2015 11:10:23 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 423

Pile of broken bedrock and boulders on southwest facing bedrock slope, facing marsh/meadow. Massassauga rattlesnake observed basking on bedrock. Cracks, crevices and juniper on bedrock



Feature Location

Latitude:45.873971,Longitude:-80.622435,Altitude:193.6,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:05/20/2015 11:01:47 EDT

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes: 567

Observed basking g on bedrock, hid under rock when disturbed. Near suitable hibernacula habitat, see associated form.



Observation Location

Latitude:45.873973,Longitude:-80.62246,Altitude:195.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/20/2015 11:05:07 EDT

Map Number	N-M24	Field Crew	AMI TOM	573	
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	4		
Start Date	5/20/2015 9:06:08 AM	Precipitation	0		
End Date	5/20/2015 9:06:10 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 570

Snake sunning on bedrock



Observation Location

Latitude:45.858691,Longitude:-80.639965,Altitude:179.9,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/20/2015 08:45:36 EDT

Map Number	N-M14	Field Crew	AMI TOM		576
Feature ID	SN-N-M14-1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	4		
Start Date	5/20/2015 11:27:18 AM	Precipitation	0		
End Date	5/20/2015 11:27:20 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 573

Rattled as we neared its location. Has large belly near end of tail - just ate something or pregnant?



Observation Location

Latitude:45.869899,Longitude:-80.632476,Altitude:193.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/20/2015 11:25:41 EDT

Map Number	S-M14	Field Crew	ADAM MCCLELLAND	579

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/20/2015 12:31:12 PM	Precipitation	0		
End Date	5/20/2015 12:34:08 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 426

Rock outcrop at top of a slope



Feature Location

Latitude:45.850951,Longitude:-80.634852,Altitude:193.2,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/20/2015 12:33:03 EDT

Map Number	S-M14	Field Crew	ADAM MCCLELLAND		582
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/20/2015 1:36:51 PM	Precipitation	0		
End Date	5/20/2015 1:37:33 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Midland painted turtle

Observation Notes 576

Heading towards small pond



Observation Location

Latitude:45.845011,Longitude:-80.63417,Altitude:191.0,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:38:33 EDT

Map Number	S-M14	Field Crew	ADAM MCCLELLAND		585
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/20/2015 3:04:36 PM	Precipitation	0		
End Date	5/20/2015 3:06:46 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Midland painted turtle

Observation Notes 579

Sitting at base of beaver dam



Observation Location

Latitude:45.850266,Longitude:-80.634933,Altitude:185.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:05/20/2015 03:06:23 EDT

Map Number	S-M14	Field Crew	ADAM MCCLELLAND		588

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/20/2015 3:22:23 PM	Precipitation	0		
End Date	5/20/2015 3:22:25 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 582

Basking on argo trail



Observation Location

Latitude:45.853627,Longitude:-80.636107,Altitude:187.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/20/2015 03:23:49 EDT

Map Number	S-M15	Field Crew	SARAH RICHER		591
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3	It was -2 C this morning at Joe's camp	
Start Date	5/20/2015 10:07:52 AM	Precipitation	0		
End Date	5/20/2015 10:07:56 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 429

South-facing boulder-y slope/pile, lots of crevices, next to area with lots of Sphagnum



Feature Location

Latitude:45.830285,Longitude:-80.626948,Altitude:199.4,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:27:14 EDT

Feature: Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)

Feature Description: 432

Single active great blue heron nest



Feature Location

Latitude:45.833353,Longitude:-80.62747,Altitude:195.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/20/2015 03:02:45 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species	Whip-poor-will

Observation Notes 585

Adult flushed from ground right on Argo trail south of Joe's camp



Observation Location

Latitude:45.839945,Longitude:-80.631058,Altitude:202.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/20/2015 10:03:29 EDT

Map Number	N-NA	Field Crew	TOM SHORNEY, AMI ARSENAULT	594

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	3		
Start Date	5/20/2015 6:53:24 PM	Precipitation	0		
End Date	5/20/2015 6:53:27 PM	Cloud Cover	0.00		

Wildlife Observations

Species	Black-throated Green Warbler

Observation Notes 588

Calling

Observation Location

Latitude:45.869705,Longitude:-80.636115,Altitude:,Speed:,Accuracy:,Provider:,Time:

Wildlife Observations - WEC

AECOM

Species: Turkey vulture

Observation Notes 591

Soaring

Observation Location

Latitude:45.869705
,Longitude:-80.636115
,Altitude:,Speed:,Accuracy:,Provider:,Time:

Species: Blue azure

Observation Notes 594

Flying

Observation Location

Latitude:45.869705,Longitude:-80.636115,Altitude:,Speed:,Accuracy:,Provider:,Time:

Species: Sandhill crane

Observation Notes 597

Fly over

Observation Location

Latitude:45.869705,Longitude:-80.636115,Altitude:,Speed:,Accuracy:,Provider:,Time:

Wildlife Observations - WEC

AECOM

Species: Black-and-white Warbler

Observation Notes 600

Calling

Observation Location

Latitude:45.869705,Longitude:-80.636115,Altitude:,Speed:,Accuracy:,Provider:,Time:

Species: Northern Leopard Frog

Observation Notes 603

Basking

Observation Location

Latitude:45.869705,Longitude:-80.636115,Altitude:182.9,Speed:0.19548889,Accuracy:2.7,Provider:gps,Time:05/20/2015 12:59:03 EDT

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN		597
Feature ID	TU-N-M11-8	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2	Forecast	
Start Date	5/20/2015 4:09:59 PM	Precipitation	0		
End Date	5/20/2015 4:23:08 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: American Three-toed Woodpecker

Observation Notes 606

Bedrock coniferous forest with Pinus strobus, Pinus banksiana, Pinus resinosa



Observation Location

Latitude:45.868949,Longitude:-80.613095,Altitude:192.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/20/2015 12:30:23 EDT

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN		600
Feature ID	TU-N-M11 -8	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2	Forecast	
Start Date	5/20/2015 3:55:44 PM	Precipitation	0		
End Date	5/20/2015 4:02:58 PM	Cloud Cover	0.00		

Wildlife Observations

Species: American Bullfrog

Observation Notes 609

Wetland



Observation Location

Latitude:45.869387,Longitude:-80.605612,Altitude:190.5,Speed:0.15947777,Accuracy:1.5,Provider:gps,Time:05/20/2015 03:53:43 EDT

Map Number	N-m19	Field Crew	A INGRISELLI JESSICA MENDOZA		609

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	5/21/2015 11:37:41 AM	Precipitation	0		
End Date	5/21/2015 4:04:09 PM	Cloud Cover	5.00		

Wildlife Observations

Species: Porcupine

Observation Notes 621

Suspected porcupine den den under bedrock ledge with wear marks and scat. No tracks observed. Scat is rodent-like, 10-20mm long and ~10mm wide with wood/veg fibers.



Observation Location

Latitude:45.886009,Longitude:-80.655147,Altitude:185.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/21/2015 11:41:09 EDT

Map Number		Field Crew		612	
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Olive-sided flycatcher

Observation Notes 624

Heard distinct "quick three beer" call twice. Bird not seen, photographed habitat approximately from where bird was heard. Rock barren. With conifers adjacent to conifer swamp and small open marsh



Observation Location

Latitude:45.883369,Longitude:-80.647495,Altitude:184.3,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/21/2015 12:09:47 EDT

Map Number	S-M46	Field Crew	ROB CONOHAN , ALEX ASHAWASEGAI	630	
Feature ID	CR-S-M46-24	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/22/2015 8:15:06 AM	Precipitation	0		
End Date	5/22/2015 3:15:11 PM	Cloud Cover	50.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 441

Meadow marsh with large grass Hummocks throughout .



Feature Location

Latitude:45.832614,Longitude:-80.675699,Altitude:171.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/22/2015 11:45:59 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common Nighthawk

Observation Notes 642

Single bird flushed from rock barren

Observation Location

Latitude:45.827618,Longitude:-80.682492,Altitude:187.0,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/22/2015 11:16:23 EDT

Map Number	N-M33	Field Crew	JILL DEMAN NATALIYA SIMONOVA		633
Feature ID	ELC -N-M33(103)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/21/2015 9:48:52 AM	Precipitation	0		
End Date	5/21/2015 9:56:54 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 645

2 turtles



Observation Location

Latitude:45.859824,Longitude:-80.665752,Altitude:187.3,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:05/21/2015 09:50:51 EDT

Map Number	N-M32	Field Crew	ADAM MCCLELLAND, JILL DEMAN	636

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	5/22/2015 9:27:34 AM	Precipitation	0		
End Date	5/22/2015 9:32:24 AM	Cloud Cover	50.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 444

Rock barren bordering conifer swamp, several crevices and juniper patchesGestation site, not hibernacula



Feature Location

Latitude:45.855981,Longitude:-80.654863,Altitude:192.5,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/22/2015 09:30:03 EDT

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 648

Basking



Observation Location

Latitude:45.855972,Longitude:-80.654865,Altitude:192.4,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:05/22/2015 09:29:02 EDT

Map Number	N-M38	Field Crew	JULIE & KASEY	639

Wildlife Observations - WEC

AECOM

Feature ID	ELC-N-M38(251)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	2		
Start Date	5/25/2015 2:38:43 PM	Precipitation	1		
End Date	5/25/2015 2:40:32 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Spring peeper

Observation Notes 651

Hear multiple calling in adjacent wetland



Observation Location

Latitude:45.8727,Longitude:-80.693953,Altitude:182.3,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:05/25/2015 02:40:47 EDT

Map Number		Field Crew		642	
Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description: 447

Vernal pool perfect for four toed salamander breeding; Sphagnum moss with standing water



Feature Location

Latitude:45.868093,Longitude:-80.644236,Altitude:192.6,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/22/2015 12:36:54 EDT

Map Number: | Field Crew: | 645

Feature ID: | Study Area: WEC

Project Number: | Air Temp. (degC): | Weather Notes:

Tablet: AECOM3 | Wind Speed (beaufort):

Start Date: | Precipitation:

End Date: | Cloud Cover:

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description: 450

Great. Vernal pool dominated by Sphagnum sp that is great four-toed salamander breeding habitat



Feature Location

Latitude:45.869836,Longitude:-80.638732,Altitude:199.3,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/25/2015 02:11:12 EDT

Map Number: | Field Crew: | 648

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 453

Vernal pool fairly deep, 30 m long by 8 -10 m wide, at least 0.6 m deep, several egg masses visible of more than one species, including wood frog & Ambystoma sp



Feature Location

Latitude:45.867208,Longitude:-80.638811,Altitude:198.8,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/25/2015 03:40:15 EDT

Map Number	N-m38	Field Crew	JULIE KASEY		651
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	5/25/2015 10:11:27 AM	Precipitation	1		
End Date	5/25/2015 10:11:30 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Amphibian Breeding Habitat (Woodland)

Feature Description 456

Boggy depression 10m x 3m depth greater than 40 cm Sphagnum and emergents



Feature Location

Latitude:45.867772,Longitude:-80.689767,Altitude:189.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:12:55 EDT

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	654

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	5/25/2015 8:18:21 AM	Precipitation	1		
End Date	5/25/2015 8:18:32 PM	Cloud Cover	100.00		

Wildlife Observations

Species	Spring peeper

Observation Notes 654

Call

Observation Location

Latitude:45.870416,Longitude:-80.643734,Altitude:188.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/25/2015 09:27:57 EDT

Wildlife Observations - WEC

AECOM

Species: White-throated Sparrow

Observation Notes: 657

Call

Observation Location

Latitude:45.870416,Longitude:-80.643734,Altitude:188.2,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/25/2015 09:28:22 EDT

Species: Black-and-white Warbler

Observation Notes: 660

Call

Observation Location

Latitude:45.870414,Longitude:-80.643735,Altitude:188.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/25/2015 09:28:59 EDT

Species: Eastern Gartersnake

Observation Notes: 663

Basking

Observation Location

Latitude:45.875004,Longitude:-80.642228,Altitude:193.5,Speed:0.24693333,Accuracy:1.5,Provider:gps,Time:05/25/2015 02:02:01 EDT

Map Number: N-M41 Field Crew: JASON AYESHA RYAN 657

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	5/26/2015 12:29:00 PM	Precipitation	0		
End Date	5/26/2015 12:32:15 PM	Cloud Cover	5.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 666

Basking under fallen jack pine branch on. rock barren

Observation Location

Latitude:45.855205,Longitude:-80.690892,Altitude:179.7,Speed:0.2520778,Accuracy:1.8,Provider:gps,Time:05/26/2015 12:32:03 EDT

Map Number	N-M19	Field Crew	OLGA HROPACH, SARAH RICHER	660

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	5/26/2015 9:32:36 AM	Precipitation	0		
End Date	5/26/2015 9:32:41 AM	Cloud Cover	20.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 459

Den created by rock shelf, approximately 3 m long by 1.5 m deep (back in), by 0.5 m high at highest, 0.2 m high at lowest at rear; evidence of recent use, by both odour and trampled floor inside



Feature Location

Latitude:45.88774,Longitude:-80.659847,Altitude:185.3,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:34:18 EDT

Feature: Cliffs and Talus Slopes

Feature Description 462

Not a talus slope, but a 3 m cliff feature covered in large rock tripe, great crevices & cracks that go far back; could be hibernacula for reptile or bat



Feature Location

Latitude:45.886685,Longitude:-80.655759,Altitude:183.1,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/26/2015 02:09:19 EDT

Map Number	N-M39	Field Crew	JULIE KASEY	663	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/26/2015 9:00:34 AM	Precipitation	0		
End Date	5/26/2015 4:22:46 PM	Cloud Cover	30.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 465

Rocky slope south faceing numerous cracks. Potential gestation site lots of veg cover 50%



Feature Location

Latitude:45.875267,Longitude:-80.694817,Altitude:185.9,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/26/2015 10:03:47 EDT

Wildlife Observations

Species: Eastern gartersnake

Observation Notes 669

Garter snake 25 cm basking on possible hibernaculum. South facilities by rocky slope



Observation Location

Latitude:45.875273,Longitude:-80.694822,Altitude:185.8,Speed:0.06173333,Accuracy:1.25,Provider:gps,Time:05/26/2015 10:02:45 EDT

Map Number	N-M29	Field Crew	JOHANNA PEREZ, NATALIYA SIMINOVA	666	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 3:27:31 PM	Precipitation	1		
End Date	5/25/2015 3:27:34 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 468

Small den in. Use (scat of unknown sp (, rock barren with juniper, jack pine, Dr maple south saplings



Feature Location

Latitude:45.875895,Longitude:-80.667999,Altitude:198.6,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/25/2015 03:29:13 EDT

Map Number	N-M9	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ		669
Feature ID	Elc-n-m9(338)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	5/26/2015 11:28:45 AM	Precipitation	0		
End Date	5/26/2015 11:28:53 AM	Cloud Cover	0.00		

Wildlife Observations

Species	Olive-sided flycatcher

Observation Notes 672

Male on territory, both heard and observer. Habitat consists of alder marsh with a few white birch snags surrounded by jack pine rock baren with a number of suitable singing perches



Observation Location

Latitude:45.883996,Longitude:-80.631635,Altitude:201.0,Speed:0.11317778,Accuracy:1.75,Provider:gps,Time:05/26/2015 11:28:30 EDT

Map Number	N-M43	Field Crew	ADAM, KRISTAN	672

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/25/2015 1:47:47 PM	Precipitation	2		
End Date	5/25/2015 1:47:49 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 675

Retreated under rock and rattled



Observation Location

Latitude:45.862398,Longitude:-80.692086,Altitude:188.4,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:05/25/2015 01:49:00 EDT

Map Number	N-M13	Field Crew	ADAM, KRISTAN		675
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	5/26/2015 1:01:11 PM	Precipitation	0		
End Date	5/26/2015 3:48:28 PM	Cloud Cover	15.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Spotted turtle

Observation Notes 678

Basking on rock barren near edge of cliff



Observation Location

Latitude:45.87634,Longitude:-80.626731,Altitude:194.0,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/26/2015 12:59:17 EDT

Species: Snapping turtle

Observation Notes 681

Swimming, dove down

Observation Location

Latitude:45.87008,Longitude:-80.621289,Altitude:195.7,Speed:0.12861112,Accuracy:1.5,Provider:gps,Time:05/26/2015 03:22:59 EDT

Species: Eastern Massasauga Rattlesnake

Observation Notes 684

Basking



Observation Location

Latitude:45.86729,Longitude:-80.622393,Altitude:176.7,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/26/2015 03:47:57 EDT

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Map Number	N-M22	Field Crew	TOM SHORNEY JESSICA MENDOZA		678
Feature ID	ELC-N-M22	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/26/2015 10:11:30 AM	Precipitation	0		
End Date	5/26/2015 5:11:44 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Sandhill crane

Observation Notes 687

More than one individual calling

Observation Location

Latitude:45.875823,Longitude:-80.655851,Altitude:186.0,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:48:59 EDT

Species: Common yellowthroat

Observation Notes 690

Call

Observation Location

Latitude:45.875822,Longitude:-80.655855,Altitude:186.1,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:49:21 EDT

Wildlife Observations - WEC

AECOM

Species: Nashville warbler

Observation Notes: 693

Call

Observation Location

Latitude:45.875821,Longitude:-80.655854,Altitude:186.3,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:49:59 EDT

Species: White-throated Sparrow

Observation Notes: 696

Call

Observation Location

Latitude:45.875821,Longitude:-80.655854,Altitude:186.3,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:50:17 EDT

Species: Ruffed grouse

Observation Notes: 699

Drum

Observation Location

Latitude:45.875167,Longitude:-80.657911,Altitude:182.7,Speed:0.19034444,Accuracy:1.5,Provider:gps,Time:05/26/2015 11:32:21 EDT

Wildlife Observations - WEC

AECOM

Species: Black-throated Green Warbler

Observation Notes 702

Call

Observation Location

Latitude:45.875144,Longitude:-80.657874,Altitude:183.0,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/26/2015 11:32:52 EDT

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA		681
Feature ID	ELC-A-M1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/27/2015 8:04:38 AM	Precipitation	0		
End Date	5/27/2015 4:11:02 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Eastern Wood-Pewee

Observation Notes 705

Song

Observation Location

Latitude:45.889587,Longitude:-80.565396,Altitude:183.3,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/27/2015 08:06:58 EDT

Wildlife Observations - WEC

AECOM

Species: Ovenbird

Observation Notes: 708

Song

Observation Location

Latitude:45.889589,Longitude:-80.565403,Altitude:183.4,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/27/2015 08:07:25 EDT

Species: Red-eyed Vireo

Observation Notes: 711

Song

Observation Location

Latitude:45.889573,Longitude:-80.565431,Altitude:184.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/27/2015 08:08:12 EDT

Species: White-throated Sparrow

Observation Notes: 714

Song

Observation Location

Latitude:45.889558,Longitude:-80.565465,Altitude:183.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/27/2015 08:14:16 EDT

Wildlife Observations - WEC

AECOM

Species: Chestnut-sided Warbler

Observation Notes: 717

Song

Observation Location

Latitude:45.889581,Longitude:-80.565513,Altitude:180.8,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/27/2015 08:22:40 EDT

Species: Black-throated Green Warbler

Observation Notes: 720

Song

Observation Location

Latitude:45.890098,Longitude:-80.563236,Altitude:198.2,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:05/27/2015 10:22:00 EDT

Species: Nashville Warbler

Observation Notes: 723

Song

Observation Location

Latitude:45.890095,Longitude:-80.563182,Altitude:197.2,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:05/27/2015 10:22:55 EDT

Wildlife Observations - WEC

AECOM

Species: Northern Leopard Frog

Observation Notes: 726

Basking

Observation Location

Latitude:45.889819,Longitude:-80.562624,Altitude:212.9,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:05/27/2015 11:30:40 EDT

Species: Gray treefrog

Observation Notes: 729

Call

Observation Location

Latitude:45.889902,Longitude:-80.561827,Altitude:212.1,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:05/27/2015 11:35:45 EDT

Species: Bay-breasted Warbler

Observation Notes: 732

Song

Observation Location

Latitude:45.889679,Longitude:-80.558794,Altitude:189.2,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/27/2015 01:23:14 EDT

Wildlife Observations - WEC

AECOM

Species: Midland painted turtle

Observation Notes 735

12 painted turtles basking

Observation Location

Latitude:45.890072,Longitude:-80.55841,Altitude:183.1,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/27/2015 01:36:35 EDT

Map Number: S-m41 | Field Crew: J MENDOZA A INGRISELLI 684

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes
Tablet	AECOM16	Wind Speed (beaufort)	5	
Start Date	5/27/2015 9:40:44 AM	Precipitation	0	
End Date	5/27/2015 2:29:47 PM	Cloud Cover	50.00	

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 738

Basking



Observation Location

Latitude:45.820041,Longitude:-80.648445,Altitude:178.1,Speed:0.31895554,Accuracy:1.8,Provider:gps,Time:05/27/2015 09:43:28 EDT

Wildlife Observations - WEC

AECOM

Species: Smooth Greensnake

Observation Notes 741

Basking on bedrock. We spooked it away when we walked by, took photo of location/habitat



Observation Location

Latitude:45.819616,Longitude:-80.652199,Altitude:187.7,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/27/2015 12:12:24 EDT

Species: Five-lined skink

Observation Notes 744

Saw it run from. Bedrock to crack under juniper.. photo ofobservation lovation



Observation Location

Latitude:45.810687,Longitude:-80.661933,Altitude:175.8,Speed:0.15433334,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:12:37 EDT

Map Number	N-M20	Field Crew	OLGA HROPACH, SARAH RICHER		687
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	5/27/2015 8:55:49 AM	Precipitation	0		
End Date	5/27/2015 9:00:04 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description: 471

Vernal pool surrounded by Sphagnum moss, ideal breeding habitat for Four-toed salamander



Feature Location

Latitude:45.88773,Longitude:-80.666154,Altitude:191.0,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/27/2015 09:02:08 EDT

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 474

Great den created by rock shelf, over 1.5 m deep (back) in, evidence of recent use



Feature Location

Latitude:45.887568,Longitude:-80.665741,Altitude:190.3,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/27/2015 10:06:05 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 477

potential Reptile hibernacula area also has great Massasauga gestation habitat



Feature Location

Latitude:45.887585,Longitude:-80.664057,Altitude:189.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/27/2015 10:16:36 EDT

Map Number: N-M23 | Field Crew: OLGA HROPACH, SARAH RICHER | 690

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes
Tablet	AECOM3	Wind Speed (beaufort)	4	
Start Date	5/27/2015 1:54:47 PM	Precipitation	0	
End Date	5/27/2015 1:54:50 PM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description: 480

potential Reptile hibernacula area also has great Massasauga gestation habitat



Feature Location

Latitude:45.881165,Longitude:-80.665721,Altitude:184.7,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/27/2015 02:58:40 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species	Bald Eagle

Observation Notes 747

Adult, soaring & circling low overhead, obviously foraging for food in adjacent wetland

Observation Location

Latitude:45.880948,Longitude:-80.666894,Altitude:183.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/27/2015 01:56:06 EDT

Map Number	S-m34	Field Crew	A INGRISELLI J MENDOZA	693	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	1		
Start Date	5/28/2015 10:22:14 AM	Precipitation	0		
End Date	5/28/2015 3:30:01 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 483

Pile of boulderover bedrocknear wetland. Small Massassauga (~15cm) observed



Feature Location

Latitude:45.82871,Longitude:-80.645976,Altitude:182.2,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:05/28/2015 10:26:52 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 750

Very small (~15cm) observed by Ryan (bear guard) hiding boulderswhen walking by. Photo of observation location



Observation Location

Latitude:45.828717,Longitude:-80.64598,Altitude:182.9,Speed:0.087455556,Accuracy:2.0,Provider:gps,Time:05/28/2015 10:29:37 EDT

Map Number	S-M34	Field Crew	OLGA HROPACH, JOHANNA PERZ		696
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	5/28/2015 11:30:58 AM	Precipitation	0		
End Date	5/28/2015 11:31:01 AM	Cloud Cover	95.00		

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 753

Basking at base of rock barren in blueberry shrubs, headed north west



Observation Location

Latitude:45.82934,Longitude:-80.644448,Altitude:202.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/28/2015 11:32:27 EDT

Map Number	S-M32	Field Crew	JOHANNA PERZ, OLGA HROPACH	699

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	5/28/2015 12:36:40 PM	Precipitation	0		
End Date	5/28/2015 12:36:43 PM	Cloud Cover	90.00		

Wildlife Observations

Species: Common nighthawk

Observation Notes 756

Flushed from area, white wing bars observed, parent remained close and alarm called, near probable nest; rock barren habitat



Observation Location

Latitude:45.83039,Longitude:-80.653373,Altitude:197.9,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/28/2015 12:38:18 EDT

Map Number	S-M32	Field Crew	JOHANNA PERZ, OLGA HROPACH		702
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	5/28/2015 12:48:53 PM	Precipitation	0		
End Date	5/28/2015 12:48:56 PM	Cloud Cover	90.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Smooth Greensnake

Observation Notes 759

Basking on grass and then slithered off in southerst direction. Found on a grassy patch on rock barren



Observation Location

Latitude:45.831748,Longitude:-80.655973,Altitude:195.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/28/2015 12:47:42 EDT

Map Number	N-M1	Field Crew	TOM SHORNEY , SARAH RICHER	705	
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/28/2015 9:27:50 AM	Precipitation	0		
End Date	5/28/2015 4:49:20 PM	Cloud Cover	75.00		

Wildlife Habitat Observations

Feature: Cliffs and Talus Slopes

Feature Description 486

150 meters long, 6 m high. Irregular rock formation with the potential for mammal den



Feature Location

Latitude:45.888591,Longitude:-80.574709,Altitude:219.5,Speed:0.3241,Accuracy:2.4,Provider:gps,Time:05/28/2015 09:29:16 EDT

Map Number	A-M2	Field Crew	SARAH RICHER	708

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes
Tablet	AECOM3	Wind Speed (beaufort)	1	
Start Date	5/28/2015 1:25:46 PM	Precipitation	0	
End Date	5/28/2015 1:25:53 PM	Cloud Cover	100.00	

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 489

Great four-toed salamander vernal pool, at least 40 cm deep, lots of sphagnum, 8 m by 25 m approx



Feature Location

Latitude:45.890562,Longitude:-80.54909,Altitude:187.3,Speed:0.030866666,Accuracy:3.6,Provider:gps,Time:05/28/2015 01:34:42 EDT

Map Number	A-M2	Field Crew	SARAH RICHER, TOM SHORNEY		711
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	5/28/2015 4:00:24 PM	Precipitation	0		
End Date	5/28/2015 4:00:42 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species	Olive-sided Flycatcher

Observation Notes 762

Calling from wetland, Pic is of habitat



Observation Location

Latitude:45.890505,Longitude:-80.558818,Altitude:178.4,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:05/28/2015 03:43:42 EDT

Map Number	N-M40	Field Crew	AYESHA JASON ASHAWASEGAI	717	
Feature ID	SN-N-M40-20	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	3		
Start Date	5/29/2015 9:20:10 AM	Precipitation	0		
End Date	5/29/2015 9:21:59 AM	Cloud Cover	30.00		

Wildlife Habitat Observations

Feature	Reptile Hibernacula

Feature Description 495

East-facing jack pine treed rock barren with deep cracks.



Feature Location

Latitude:45.880475,Longitude:-80.691059,Altitude:0.0,Speed:0.051444445,Accuracy:100.0,Provider:gps,Time:05/29/2015 09:16:33 EDT

Wildlife Observations - WEC

AECOM

Feature: Reptile Hibernacula

Feature Description: 498

West-facing Jack pine treed rock barren



Feature Location

Latitude:45.885506,Longitude:-80.629815,Altitude:196.2,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:05/29/2015 10:39:04 EDT

Map Number	N-M27	Field Crew	JOHANNA PERZ		720
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1	Hazy and humid	
Start Date	5/29/2015 8:43:50 AM	Precipitation	0		
End Date	5/29/2015 8:43:54 AM	Cloud Cover	25.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 501

Large, open,, deep cavern in rock barren, nearby vegetation is white spruce and jack pine



Feature Location

Latitude:45.862085,Longitude:-80.657003,Altitude:185.8,Speed:1.1935111,Accuracy:1.5,Provider:gps,Time:05/29/2015 08:46:14 EDT

Map Number	S-M10	Field Crew	JOHANNA PERZ		723

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	5/29/2015 11:27:55 AM	Precipitation	0		
End Date	5/29/2015 11:28:00 AM	Cloud Cover	50.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 771

Crossing road headed east. May have been female



Observation Location

Latitude:45.861748,Longitude:-80.605969,Altitude:198.4,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:05/29/2015 11:26:18 EDT

Map Number: N-M49 Field Crew: TOM SHORNEY, SARAH RICHER 729

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	5/29/2015 7:37:15 AM	Precipitation	0		
End Date	5/29/2015 1:16:28 PM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 504

Potential mammal Denning sites



Feature Location

Latitude:45.87365,Longitude:-80.721282,Altitude:180.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/29/2015 07:40:48 EDT

Wildlife Observations

Species: Whip-poor-will

Observation Notes 777

Flushed 2 from ground, potentially nesting



Observation Location

Latitude:45.873606,Longitude:-80.721121,Altitude:181.4,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:05/29/2015 07:38:38 EDT

Map Number	N-M40	Field Crew	JULIE & KASEY	732	
Feature ID	N-M40	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/27/2015 11:00:49 AM	Precipitation	0		
End Date	5/27/2015 1:06:17 PM	Cloud Cover	90.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description: 507

Depth 30cm, ability to hold water until July, between rock barren, grasses, a few shrubs, mosses, 12x6m in size



Feature Location

Latitude:45.878692,Longitude:-80.688023,Altitude:186.0,Speed:0.11832222,Accuracy:1.8,Provider:gps,Time:05/27/2015 10:58:41 EDT

Feature: Reptile Hibernacula

Feature Description: 510

Large south facing rock pile beside cliff with deep crevasses and 50% juniper and other leafy cover



Feature Location

Latitude:45.877373,Longitude:-80.686757,Altitude:184.3,Speed:0.0,Accuracy:1.8,Provider:gps,Time:05/27/2015 12:38:04 EDT

Map Number	N-M39 and N-M40	Field Crew	JULIE KASEY		735
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	5/26/2015 9:00:34 AM	Precipitation	0		
End Date	5/26/2015 4:24:39 PM	Cloud Cover	35.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 780

Rattle and saddle shapes on back small fat body 15 cm long approximately. Basking



Observation Location

Latitude:45.877255,Longitude:-80.694645,Altitude:185.2,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:41:35 EDT

Species: Northern Leopard Frog

Observation Notes 783

Heard calling. Single male

Observation Location

Latitude:45.878062,Longitude:-80.693484,Altitude:183.0,Speed:0.19034444,Accuracy:1.5,Provider:gps,Time:05/26/2015 02:52:31 EDT

Species: American toad

Observation Notes 786

Juvenile 4 cm in length; on rock barren adjacent to wetland.



Observation Location

Latitude:45.881498,Longitude:-80.693164,Altitude:177.4,Speed:0.0,Accuracy:1.5,Provider:gps,Time:05/26/2015 04:07:04 EDT

Execution Time 8/24/2015 1:23:23 PM Filter Start Date 4/1/2015 Filter End Date 5/31/2015

Wildlife Observations - WEC

AECOM

Map Number	N-M40	Field Crew	JULIE KASEY		741
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	3		
Start Date	5/27/2015 8:30:33 AM	Precipitation	0		
End Date	5/27/2015 3:26:07 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 513

SWC with Sphagnum hummocks rock barren adjacent



Feature Location

Latitude:45.880074,Longitude:-80.691377,Altitude:186.4,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/27/2015 09:49:26 EDT

Feature: Reptile Hibernacula

Feature Description 516

SWC with Sphagnum hummocks rock barren adjacent



Feature Location

Latitude:45.87912,Longitude:-80.689111,Altitude:187.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/27/2015 10:45:17 EDT

Wildlife Observations - WEC

AECOM

Feature: Cliffs and Talus Slopes

Feature Description 519

Cliff approximately 5 m high



Feature Location

Latitude:45.878759,Longitude:-80.688251,Altitude:184.4,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:05/27/2015 01:06:02 EDT

Map Number	A-M3	Field Crew	JULIE KASEY	747	
Feature ID	ELC-A-M3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	5/28/2015 4:58:54 PM	Precipitation	0		
End Date	5/28/2015 4:58:59 PM	Cloud Cover	15.00		

Wildlife Observations

Species: Great blue heron

Observation Notes 798

Two herons flying and circling back also saw one feeding near this location this mourning

Observation Location

Latitude:45.893557,Longitude:-80.539723,Altitude:185.0,Speed:0.05658889,Accuracy:2.7,Provider:gps,Time:05/28/2015 04:55:47 EDT

Wildlife Observations - WEC

AECOM

Map Number	N-M46	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	756

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 9:30:09 AM	Precipitation	0		
End Date	6/1/2015 9:35:36 AM	Cloud Cover	25.00		

Wildlife Observations

Species: Common Nighthawk

Observation Notes 807

Nighthawk observed while walking to site on rock barren. Flew a couple feet and landed on log.



Observation Location

Latitude:45.851597,Longitude:-80.695708,Altitude:179.6,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:06/01/2015 08:53:44 EDT

Map Number	N-M35	Field Crew	JAMES KAMSTRA, AYESHA	759

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	6/1/2015 1:53:43 PM	Precipitation	0		
End Date	6/1/2015 7:28:02 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Cliffs and Talus Slopes

Feature Description 528

Cave extends 4 m into rock outcrop. Probably not bat habitat. Ceiling50 cm. Water in cave.



Feature Location

Latitude:45.858156,Longitude:-80.674953,Altitude:180.7,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:06/01/2015 01:56:48 EDT

Map Number	N-M33	Field Crew	KAMSTRA	762

Feature ID	Cliff	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/1/2015 5:54:35 PM	Precipitation	0		
End Date	6/1/2015 5:55:03 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Cliffs and Talus Slopes

Feature Description 531

Cliff 3 m high with deep crevices. Some Potentilla for bat roosting and snake hibernscula.. old mammal den site porcupine



Feature Location

Latitude:45.855125,Longitude:-80.659031,Altitude:189.3,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:06/01/2015 05:57:06 EDT

Map Number	N-M8	Field Crew	OLGA HROPACH , SARAH RICHER	765

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM5	Wind Speed (beaufort)	1	
Start Date	6/1/2015 8:51:20 AM	Precipitation	0	
End Date	6/1/2015 8:51:23 AM	Cloud Cover	80.00	

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 534

Rock den



Feature Location

Latitude:45.885189,Longitude:-80.62193,Altitude:203.6,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/01/2015 06:25:37 EDT

Map Number	N-M7	Field Crew	OLGA HROPACH , SARAH RICHER		768
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	6/1/2015 8:47:31 AM	Precipitation	0		
End Date	6/1/2015 8:47:37 AM	Cloud Cover	80.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 537

Den formed by rock ledge, approx 50 cm at highest & 1.5 m at widest



Feature Location

Latitude:45.881865,Longitude:-80.618553,Altitude:199.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/01/2015 09:07:40 EDT

Wildlife Observations

Species: Common Nighthawk

Observation Notes 810

Single adult flushed from ground; nest search yielded negative result



Observation Location

Latitude:45.879437,Longitude:-80.616089,Altitude:198.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/01/2015 07:52:39 EDT

Map Number	N-M26	Field Crew	ADAM, HEATHER	774	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	6/2/2015 8:49:27 AM	Precipitation	0		
End Date	6/2/2015 8:51:50 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 813

Basking in juniper, rattling

Observation Location

Latitude:45.855022,Longitude:-80.65118,Altitude:182.6,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:06/02/2015 08:51:16 EDT

Map Number: N-M27 | Field Crew: ADAM, HEATHER | 777

Feature ID	SN-N-M27-2	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	1	
Start Date	6/2/2015 10:46:58 AM	Precipitation	0	
End Date	6/2/2015 10:52:51 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 543

Crevasses in cliff face, appear deep



Feature Location

Latitude:45.861726,Longitude:-80.656927,Altitude:183.1,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:06/02/2015 10:49:04 EDT

Map Number: N-M27 | Field Crew: ADAM, HEATHER | 780

Wildlife Observations - WEC

AECOM

Feature ID	SN-N-M27-1	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	2	
Start Date	6/2/2015 11:44:20 AM	Precipitation	0	
End Date	6/2/2015 11:50:32 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 546

Two crevasses, appear deep

Feature Location

Latitude:45.865388,Longitude:-80.660661,Altitude:184.2,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/02/2015 11:48:21 EDT

Map Number	A-M1	Field Crew	JOHANNA PERZ, ROB CONOHAN	792
Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM1	Wind Speed (beaufort)	1	
Start Date	6/2/2015 1:37:45 PM	Precipitation	0	
End Date	6/2/2015 1:37:48 PM	Cloud Cover	0.00	

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Blanding's turtle

Observation Notes 822

Moving north east



Observation Location

Latitude:45.890271,Longitude:-80.559972,Altitude:250.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/02/2015 01:39:18 EDT

Map Number: S-M29 | Field Crew: OLGA HROPACH SARAH RICHER 795

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM19	Wind Speed (beaufort)	1	
Start Date	6/3/2015 7:16:35 AM	Precipitation	0	
End Date	6/3/2015 7:16:38 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 552

Tamarack & deciduous shrub swamp adjacent to treed rock barren, access to rooting zone apparent



Feature Location

Latitude:45.838003,Longitude:-80.593855,Altitude:0.0,Speed:0.19034444,Accuracy:100.0,Provider:gps,Time:06/03/2015 07:19:13 EDT

Map Number: S-M27 | Field Crew: OLGA HROPACH SARAH RICHER 798

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/3/2015 7:45:52 AM	Precipitation	0		
End Date	6/3/2015 7:45:57 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 555

Large den formed by rock ledges on treed rock barren; at least 2 chambers visible, main one 40 cm high at tallest point inside, by over 1 m deep, two entrances that are 1 m wide and 0.5 m wide respectively. Lots of porcupine scat inside, of unknown age



Feature Location

Latitude:45.835661,Longitude:-80.592645,Altitude:205.7,Speed:0.12861112,Accuracy:1.8,Provider:gps,Time:06/03/2015 07:48:03 EDT

Feature: Amphibian Breeding Habitat (Wetland)

Feature Description 558

Sphagnum-rich pool ideal for four-toed salamander breeding habitat



Feature Location

Latitude:45.836124,Longitude:-80.592806,Altitude:192.4,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/03/2015 09:56:13 EDT

Map Number	A-M2	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	801

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/3/2015 11:07:16 AM	Precipitation	0		
End Date	6/3/2015 11:07:18 AM	Cloud Cover	20.00		

Wildlife Observations

Species: Midland painted turtle

Observation Notes 825

Basking on log. Went into Water before we could take a pic

Observation Location

Latitude:45.893742,Longitude:-80.537652,Altitude:184.3,Speed:1.0546111,Accuracy:2.1,Provider:gps,Time:06/03/2015 11:06:29 EDT

Map Number: S-M31 Field Crew: AMI ARSENAULT 804

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/3/2015 11:32:28 AM	Precipitation	0		
End Date	6/3/2015 11:32:30 AM	Cloud Cover	60.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Great blue heron

Observation Notes 828

Blue heron on stick nest in water



Observation Location

Latitude:45.840695,Longitude:-80.656714,Altitude:187.5,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/03/2015 11:31:40 EDT

Map Number	N-M18	Field Crew	ADAM, HEATHER		816
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	5		
Start Date	6/3/2015 8:20:20 AM	Precipitation	0		
End Date	6/3/2015 8:54:50 AM	Cloud Cover	5.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 834

Basking, rattling



Observation Location

Latitude:45.887824,Longitude:-80.655611,Altitude:182.1,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:06/03/2015 08:22:40 EDT

Map Number	N-M21	Field Crew	ADAM, HEATHER	819

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	5		
Start Date	6/3/2015 8:55:06 AM	Precipitation	0		
End Date	6/3/2015 8:57:15 AM	Cloud Cover	5.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 837

Basking



Observation Location

Latitude:45.88001,Longitude:-80.654995,Altitude:185.4,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/03/2015 08:57:49 EDT

Map Number	N-M15	Field Crew	KRISTAN WASHBURN		831
Feature ID	TU-N-M15	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	6/3/2015 9:00:23 AM	Precipitation	0		
End Date	6/3/2015 9:11:29 AM	Cloud Cover	25.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common loon

Observation Notes 849

Probable breeding. Loon sitting on floating mat of sphagnum and emergent vegetation.



Observation Location

Latitude:45.868457,Longitude:-80.645373,Altitude:182.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/03/2015 09:17:13 EDT

Species: Common nighthawk

Observation Notes 852

Flushed it no observable nest.



Observation Location

Latitude:45.871751,Longitude:-80.693872,Altitude:180.2,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:06/03/2015 12:42:49 EDT

Map Number	S-M4	Field Crew	OLGA HROPACH SARAH RICHER		834
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/2/2015 7:16:46 AM	Precipitation	0		
End Date	6/2/2015 7:16:49 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 573

Denning site in gap in rock barren, seemingly deep



Feature Location

Latitude:45.853029,Longitude:-80.573399,Altitude:203.5,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/02/2015 07:18:50 EDT

Feature: Reptile Hibernacula

Feature Description: 576

Suitable gestation habitat, on rock barren with presence of vegetation cover (bush honeysuckle).



Feature Location

Latitude:45.853029,Longitude:-80.573398,Altitude:203.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/02/2015 07:20:18 EDT

Wildlife Observations - WEC

AECOM

Feature: Mineral Licks

Feature Description 579

Possible mineral lick, very muddy with orange staining



Feature Location

Latitude:45.856276,Longitude:-80.573642,Altitude:188.4,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/02/2015 07:33:43 EDT

Map Number	S-M3	Field Crew	OLGA HROPACH SARAH RICHER		837
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/2/2015 7:57:34 AM	Precipitation	0		
End Date	6/2/2015 9:30:48 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 582

Bear den, narrow passage but drops in deep



Feature Location

Latitude:45.859049,Longitude:-80.573912,Altitude:198.0,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/02/2015 07:59:52 EDT

Map Number	S-M1	Field Crew	OLGA HROPACH SARAH RICHER		840

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/2/2015 9:20:40 AM	Precipitation	0		
End Date	6/2/2015 9:20:42 AM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 585

Suitable gestation habitat and hibernaculum site. Several crevices in rock barren and lots of juniper bushes for cover ; unknown if reach below frost line



Feature Location

Latitude:45.867361,Longitude:-80.571947,Altitude:205.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/02/2015 09:19:21 EDT

Map Number	S-M7	Field Crew	OLGA HROPACH SARAH RICHER		843
Feature ID	TU-S-M7-17	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	6/2/2015 1:29:12 PM	Precipitation	0		
End Date	6/2/2015 1:29:16 PM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 588

Den created by uprooted tree, large enough for bear



Feature Location

Latitude:45.848835,Longitude:-80.600727,Altitude:199.9,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:06/02/2015 01:31:20 EDT

Feature: Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)

Feature Description: 591

Two Blue Heron stick nests ion snags in beaver pond



Feature Location

Latitude:45.850457,Longitude:-80.599164,Altitude:201.2,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/02/2015 02:20:18 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common Nighthawk

Observation Notes 855

2 adults flying foraging & calling repeatedly

Observation Location

Latitude:45.850958,Longitude:-80.601433,Altitude:201.1,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/02/2015 02:10:46 EDT

Map Number | Field Crew | 846

Feature ID | Study Area: WEC

Project Number | Air Temp. (degC) | Weather Notes

Tablet: AECOM7 | Wind Speed (beaufort)

Start Date | Precipitation

End Date | Cloud Cover

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 858

Hiding in blueberry bushes on rock barren



Observation Location

Latitude:45.817771,Longitude:-80.654164,Altitude:184.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/04/2015 10:04:55 EDT

Map Number: S-M15 | Field Crew: AMI ARSENAULT KRISTAN WASHBURN | 849

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes
Tablet	AECOM12	Wind Speed (beaufort)	1	
Start Date	6/4/2015 4:17:10 PM	Precipitation	0	
End Date	6/4/2015 4:17:12 PM	Cloud Cover	70.00	

Wildlife Observations

Species: Canada warbler

Observation Notes 861

Heard calling from alder thicket



Observation Location

Latitude:45.839431,Longitude:-80.631422,Altitude:200.7,Speed:0.03601111,Accuracy:3.0,Provider:gps,Time:06/04/2015 04:18:00 EDT

Map Number: N-M6 Field Crew: OLGA HROPACH 852

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes
Tablet	AECOM5	Wind Speed (beaufort)	2	
Start Date	6/4/2015 12:54:58 PM	Precipitation	0	
End Date	6/4/2015 12:55:00 PM	Cloud Cover	80.00	

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Amphibian Breeding Habitat (Wetland)

Feature Description 594

Part of a water course that was damed up, ponded and currently drying up. Currently acting as vernal pool (depth >1 m), not a lot of surrounding vegetation for cover and fish noted in pool. Surrounding substrate is bedrock. There is a beaver dam which tur



Feature Location

Latitude:45.872294,Longitude:-80.607136,Altitude:194.1,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/04/2015 12:57:50 EDT

Map Number	S-M3	Field Crew	ADAM, HEATHER	855

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	6/5/2015 9:22:07 AM	Precipitation	1		
End Date	6/5/2015 9:24:35 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature	Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 597

Large den in forest



Feature Location

Latitude:45.859127,Longitude:-80.573835,Altitude:208.3,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:06/05/2015 09:24:37 EDT

Map Number	S-M11	Field Crew	OLGA HROPACH SARAH RICHER	861

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/5/2015 9:21:12 AM	Precipitation	2		
End Date	6/5/2015 9:21:15 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Mast Producing Areas

Feature Description 600

Several large red oak trees and low sweet blueberry shrubs in rock barren



Feature Location

Latitude:45.853289,Longitude:-80.625855,Altitude:196.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/05/2015 09:23:12 EDT

Feature: Mast Producing Areas

Feature Description 603

Lots of red oak saplings and older trees



Feature Location

Latitude:45.856754,Longitude:-80.619048,Altitude:206.7,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:06/05/2015 10:50:20 EDT

Map Number	S-M10	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	864

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/5/2015 11:18:02 AM	Precipitation	0		
End Date	6/5/2015 11:18:06 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Mast Producing Areas

Feature Description: 606

Lots of young and older red oaks throughout rock barren

Feature Location

Latitude:45.856816,Longitude:-80.617511,Altitude:205.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/05/2015 11:19:57 EDT

Feature: Mast Producing Areas

Feature Description: 609

A high concentration of large red oak trees on rock barren with low blueberry bushes



Feature Location

Latitude:45.856945,Longitude:-80.616381,Altitude:201.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/05/2015 11:33:10 EDT

Wildlife Observations - WEC

AECOM

Feature: Mast Producing Areas

Feature Description: 612

Large pocket of red oak including saplings and midge trees



Feature Location

Latitude:45.856775,Longitude:-80.615071,Altitude:203.5,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/05/2015 11:41:07 EDT

Map Number	S-M32	Field Crew	KAMSTRA	867	
Feature ID	S-M32 (196)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	2		
Start Date	6/8/2015 11:08:05 AM	Precipitation	0		
End Date	6/8/2015 11:08:44 AM	Cloud Cover	100.00		

Wildlife Observations

Species: Canada Warbler

Observation Notes: 867

Singing male in broken canopy mixed forest



Observation Location

Latitude:45.832439,Longitude:-80.655224,Altitude:0.0,Speed:0.9928778,Accuracy:100.0,Provider:gps,Time:06/08/2015 11:05:32 EDT

Map Number	S-m31	Field Crew	JULIE ELLIS	870

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	0		
Start Date	6/9/2015 9:00:03 AM	Precipitation	0		
End Date	6/9/2015 9:00:05 AM	Cloud Cover	10.00		

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 615

Pool made by beaver dam greater than 50 cm deep in some areas. 40% emergent veg. Can hold water past July



Feature Location

Latitude:45.842101,Longitude:-80.656522,Altitude:181.0,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:02:17 EDT

Wildlife Observations

Species: Green frog

Observation Notes 870

Three heard calling in vernal pool

Observation Location

Latitude:45.8421,Longitude:-80.656535,Altitude:181.4,Speed:0.11317778,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:01:40 EDT

Map Number		Field Crew		873

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Colonially-Nesting Bird Breeding Habitat (Trees/Shrubs)

Feature Description 618

Gbhe on stick nest



Feature Location

Latitude:45.841293,Longitude:-80.656787,Altitude:183.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/09/2015 09:11:10 EDT

Wildlife Observations

Species: American Bullfrog

Observation Notes 873

Thrwe heard calling inblarge wetland, one non calling observed



Observation Location

Latitude:45.841415,Longitude:-80.657107,Altitude:188.6,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:23:54 EDT

Map Number		Field Crew		876

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description: 621

Pool with alder and Sphagnum , small but deep. 40 cm water

Feature Location

Latitude:45.839691,Longitude:-80.654974,Altitude:187.1,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:06/09/2015 10:07:39 EDT

Map Number	S-m33	Field Crew	JULIE ELLIS		879
Feature ID	Tu -s-m33-20	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	1		
Start Date	6/9/2015 1:15:47 PM	Precipitation	0		
End Date	6/9/2015 1:15:58 PM	Cloud Cover	20.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: American Bullfrog

Observation Notes 876

Heard calling (2) and observed (1)

Observation Location

Latitude:45.825708,Longitude:-80.64747,Altitude:181.0,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:06/09/2015 01:12:40 EDT

Species: Mink frog

Observation Notes 879

One heard calling

Observation Location

Latitude:45.825709,Longitude:-80.647466,Altitude:181.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/09/2015 01:13:25 EDT

Map Number	S-M31	Field Crew	JULIE ELLIS	882	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	1		
Start Date	6/9/2015 3:31:15 PM	Precipitation	0		
End Date	6/9/2015 3:31:25 PM	Cloud Cover	50.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common Nighthawk

Observation Notes 882

On ground assume nest nearby



Observation Location

Latitude:45.840431,Longitude:-80.652882,Altitude:184.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/09/2015 02:48:29 EDT

Map Number: S-M14 | Field Crew: JOHANNA PERZ | 885

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes
Tablet	AECOM1	Wind Speed (beaufort)	1	
Start Date	6/9/2015 9:45:35 AM	Precipitation	0	
End Date	6/9/2015 9:45:38 AM	Cloud Cover	3.00	

Wildlife Observations

Species: Canada Warbler

Observation Notes 885

Territorial male singing; habitat is FOM stand wih dense understory vegetation. Dominant canopy species red maple and white birch, adjacent to rock barren



Observation Location

Latitude:45.84453,Longitude:-80.633795,Altitude:206.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/09/2015 09:44:25 EDT

Map Number: S-M16 | Field Crew: JOHANNA PERZ | 888

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	6/9/2015 10:37:34 AM	Precipitation	0		
End Date	6/9/2015 10:37:26 AM	Cloud Cover	30.00		

Wildlife Observations

Species: Hairy woodpecker

Observation Notes 888

Aggresively alarm calling adult, staying close to area; nest must be nearby, in declining trembling aspen where the bird originated?



Observation Location

Latitude:45.836369,Longitude:-80.636744,Altitude:198.4,Speed:0.1852,Accuracy:1.5,Provider:gps,Time:06/09/2015 10:39:20 EDT

Map Number	S-M17	Field Crew	JOHANNA PERZ		891
Feature ID	TU-S-M17-5	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	6/9/2015 12:20:30 PM	Precipitation	0		
End Date	6/9/2015 12:20:34 PM	Cloud Cover	25.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Killdeer

Observation Notes 891

Adult incubating nest with 4 eggs



Observation Location

Latitude:45.832159,Longitude:-80.626078,Altitude:192.9,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/09/2015 12:06:04 EDT

Map Number: S-M17 | Field Crew: JOHANNA PERZ | 894

Feature ID	TU-S-M17-5	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM1	Wind Speed (beaufort)	2	
Start Date	6/9/2015 12:45:22 PM	Precipitation	0	
End Date	6/9/2015 12:45:25 PM	Cloud Cover	45.00	

Wildlife Observations

Species: Black-backed Woodpecker

Observation Notes 894

Across wetland in jack pine



Observation Location

Latitude:45.832023,Longitude:-80.626284,Altitude:187.6,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:06/09/2015 12:45:37 EDT

Map Number: S-NA | Field Crew: JOHANNA PERZ | 897

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM1	Wind Speed (beaufort)	2	
Start Date	6/9/2015 3:11:23 PM	Precipitation	0	
End Date	6/9/2015 3:11:24 PM	Cloud Cover	75.00	

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 897

25cm garter snake travelling east in mature mixed forest. Near S-M14



Observation Location

Latitude:45.854844,Longitude:-80.638142,Altitude:196.6,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/09/2015 03:10:55 EDT

Map Number	S-NA	Field Crew	JAY CASHUBEC, KALYNN PARROTT	900

Feature ID	Blandings Turtle	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes
Tablet	AECOM17	Wind Speed (beaufort)	4	
Start Date	6/9/2015 4:26:55 PM	Precipitation	0	
End Date	6/9/2015 4:26:59 PM	Cloud Cover	20.00	

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Blanding's turtle

Observation Notes 900

Blandings turtle Crossing Argo. Trail next to Joe's camp

Observation Location

Latitude:45.855389,Longitude:-80.63924,Altitude:180.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/09/2015 04:31:00 EDT

Map Number	S-M5	Field Crew	ADAM, JULIE		903
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/8/2015 4:13:23 PM	Precipitation	0		
End Date	6/8/2015 4:15:39 PM	Cloud Cover	90.00		

Wildlife Observations

Species: Spring peeper

Observation Notes 903

Juvenile, seen near swamp



Observation Location

Latitude:45.848024,Longitude:-80.581176,Altitude:192.0,Speed:0.23664445,Accuracy:2.1,Provider:gps,Time:06/08/2015 04:14:53 EDT

Map Number	S-M22	Field Crew	AYESHA ROB CORY	906

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	6/8/2015 11:10:43 AM	Precipitation	0		
End Date	6/8/2015 5:10:56 PM	Cloud Cover	75.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 906

Large adult



Observation Location

Latitude:45.824604,Longitude:-80.613718,Altitude:213.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:14:04 EDT

Species: Common nighthawk

Observation Notes 909

Four birds calling and conducting flight dislays at 5:30 pm

Observation Location

Latitude:45.846824,Longitude:-80.630203,Altitude:219.6,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/08/2015 05:27:25 EDT

Map Number	S-M43	Field Crew	MATT AYESHA ROB	909

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	6/9/2015 8:58:31 AM	Precipitation	0		
End Date	6/9/2015 5:59:02 PM	Cloud Cover	25.00		

Wildlife Habitat Observations

Feature: Turtle and Lizard Nesting Areas

Feature Description: 624

Depredated Turtle nest.



Feature Location

Latitude:45.811151,Longitude:-80.657577,Altitude:185.9,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:08:49 EDT

Feature: Turtle and Lizard Nesting Areas

Feature Description: 627

Depredated turtle nest



Feature Location

Latitude:45.810962,Longitude:-80.657173,Altitude:181.9,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/09/2015 09:13:43 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Northern Waterthrush

Observation Notes 912

Singing

Observation Location

Latitude:45.811032,Longitude:-80.652477,Altitude:199.7,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:24:20 EDT

Species: Canada Warbler

Observation Notes 915

Three males singing and fighting

Observation Location

Latitude:45.811616,Longitude:-80.649589,Altitude:192.7,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:06/09/2015 09:37:06 EDT

Species: Canada Warbler

Observation Notes 918

Male singing

Observation Location

Latitude:45.811906,Longitude:-80.64801,Altitude:213.4,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:42:21 EDT

Wildlife Observations - WEC

AECOM

Species: Canada Warbler

Observation Notes 921

Singing

Observation Location

Latitude:45.811673,Longitude:-80.645909,Altitude:207.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/09/2015 09:48:45 EDT

Map Number	S-M42	Field Crew	ROB AYESHA MATT	912	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/10/2015 6:48:23 AM	Precipitation	0		
End Date	6/10/2015 4:48:32 PM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Turtle and Lizard Nesting Areas

Feature Description 630

Depredated Turtle nest



Feature Location

Latitude:45.836209,Longitude:-80.675726,Altitude:186.3,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:06/10/2015 03:09:08 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: American Woodcock

Observation Notes 924

Flushed

Observation Location

Latitude:45.834532,Longitude:-80.674511,Altitude:178.9,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/10/2015 10:22:27 EDT

Species: Mallard

Observation Notes 927

Female with three young

Observation Location

Latitude:45.833164,Longitude:-80.675919,Altitude:184.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/10/2015 10:29:28 EDT

Map Number	N-M12	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	915	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 12:17:41 PM	Precipitation	0		
End Date	6/10/2015 12:17:42 PM	Cloud Cover	80.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 930

In meadow Marsh close to rockbarren and stream. Large adult female



Observation Location

Latitude:45.868603,Longitude:-80.618219,Altitude:172.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/10/2015 12:22:01 EDT

Map Number	S-M19	Field Crew	KASEY & NATALIYA	918	
Feature ID	ELC-S-M19	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/11/2015 9:30:26 AM	Precipitation	0		
End Date	6/11/2015 9:42:18 AM	Cloud Cover	20.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 933

50 cm long and about 7 rattle notches on rock barren near wetland



Observation Location

Latitude:45.837635,Longitude:-80.627642,Altitude:197.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/11/2015 09:15:28 EDT

Wildlife Observations - WEC

AECOM

Species: Eastern Massasauga Rattlesnake

Observation Notes 936

Tree Bedrock area , slopes fasing in a eastern



Observation Location

Latitude:45.834838,Longitude:-80.624376,Altitude:190.1,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:06/11/2015 09:34:28 EDT

Map Number	S-M30	Field Crew	TOM SHORNEY , DAN MCPARLAND	924	
Feature ID	ELC-S-M30 (689)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/9/2015 7:03:44 AM	Precipitation	0		
End Date	6/9/2015 7:04:01 AM	Cloud Cover	20.00		

Wildlife Observations

Species: Eastern gartersnake

Observation Notes 942

Basking on barren along wetland



Observation Location

Latitude:45.839484,Longitude:-80.646769,Altitude:191.2,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/08/2015 10:29:35 EDT

Wildlife Observations - WEC

AECOM

Species: Chestnut-sided Warbler

Observation Notes: 945

Calling

Observation Location

Latitude:45.839791,Longitude:-80.648097,Altitude:193.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/08/2015 10:40:03 EDT

Species: Black-and-white Warbler

Observation Notes: 948

Calling

Observation Location

Latitude:45.839792,Longitude:-80.648097,Altitude:193.3,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/08/2015 10:40:36 EDT

Species: Hermit Thrush

Observation Notes: 951

Calling

Observation Location

Latitude:45.839792,Longitude:-80.648097,Altitude:193.3,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/08/2015 10:40:58 EDT

Map Number | Field Crew | 927

Execution Time 8/24/2015 1:41:21 PM Filter Start Date 6/1/2015 Filter End Date 6/30/2015

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Common Nighthawk nest

Observation Notes 954

Nest and eggs



Observation Location

Latitude:45.838672,Longitude:-80.654025,Altitude:189.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/08/2015 04:07:49 EDT

Map Number	S-NA	Field Crew	TOM SHORNEY , DAN MCPARLAND		930
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	2		
Start Date	6/9/2015 10:17:33 AM	Precipitation	0		
End Date	6/9/2015 3:14:05 PM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Sandhill crane

Observation Notes 957

More than one individual calling

Observation Location

Latitude:45.832823,Longitude:-80.610368,Altitude:209.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:19:07 EDT

Species: Red-tailed hawk

Observation Notes 960

Calling

Observation Location

Latitude:45.832823,Longitude:-80.61037,Altitude:209.2,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:19:30 EDT

Species: White-throated sparrow

Observation Notes 963

Call

Observation Location

Latitude:45.832823,Longitude:-80.61037,Altitude:209.2,Speed:0.102888889,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:19:50 EDT

Wildlife Observations - WEC

AECOM

Species: Nashville warbler

Observation Notes 966

Call

Observation Location

Latitude:45.832822,Longitude:-80.610369,Altitude:209.1,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:20:10 EDT

Species: Red-eyed Vireo

Observation Notes 969

Call

Observation Location

Latitude:45.834093,Longitude:-80.61177,Altitude:198.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/09/2015 10:41:55 EDT

Map Number	N-M19	Field Crew	KRISTAN WASHBURN AND JAMESKAMSTRA		936
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 9:33:39 AM	Precipitation	0		
End Date	6/11/2015 9:33:41 AM	Cloud Cover	5.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 975

Heard a snake and then observed it fleeing through juniper bushes and sweet fern.



Observation Location

Latitude:45.886611,Longitude:-80.656106,Altitude:171.7,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:06/11/2015 09:37:35 EDT

Map Number | Field Crew | 939

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Common nighthawk

Observation Notes 978

Flushed from this location potential nest site although not observed



Observation Location

Latitude:45.826875,Longitude:-80.682707,Altitude:185.9,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/11/2015 01:14:04 EDT

Wildlife Observations - WEC

AECOM

Species: Eastern Massasauga Rattlesnake

Observation Notes 981

Adult snake in swamp



Observation Location

Latitude:45.82602,Longitude:-80.683332,Altitude:178.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/11/2015 03:25:10 EDT

Species: Common Nighthawk

Observation Notes 984

Flew off bedrock no signs of nest



Observation Location

Latitude:45.826084,Longitude:-80.683393,Altitude:177.9,Speed:0.41155556,Accuracy:1.8,Provider:gps,Time:06/11/2015 03:26:19 EDT

Map Number	S-M18	Field Crew	OLGA HROPACH CASEY O'DRISCOLL		942
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/9/2015 1:01:23 PM	Precipitation	0		
End Date	6/8/2015 1:08:38 PM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 633

Gestation habitat, crack in rock barren covered by low sweet blueberry bushes. Massasauga snake observed near crack.



Feature Location

Latitude:45.82898,Longitude:-80.634708,Altitude:189.4,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:05:40 EDT

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 987

One massasauga snake observed basking in rock barren in a low sweet blueberry bush. 50 cm long. Looks like it just ate.



Observation Location

Latitude:45.829016,Longitude:-80.634736,Altitude:188.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:01:18 EDT

Map Number	S-M18	Field Crew	OLGA HROPACH CASEY O'DRISCOLL	945	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	6/8/2015 6:19:51 PM	Precipitation	0		
End Date	6/8/2015 7:00:00 PM	Cloud Cover	30.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Amphibian Breeding Habitat (Wetland)
Feature Description	636

Vernal pool at beaver dam;>1 m deep, shrubs on the edge. 10 min long by 5 m wide. Green frog observed



Feature Location

Latitude:45.83255,Longitude:-80.632723,Altitude:188.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/08/2015 04:50:32 EDT

Feature	Amphibian Breeding Habitat (Wetland)
Feature Description	639

Shallow water (30 cm) with potential to hold water until july



Feature Location

Latitude:45.832683,Longitude:-80.633108,Altitude:188.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/08/2015 04:53:49 EDT

Map Number	S-M20	Field Crew	OLGA HROPACH CASEY O'DRISCOLL	948	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	6/9/2015 12:34:50 PM	Precipitation	0		
End Date	6/9/2015 12:34:52 PM	Cloud Cover	30.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Whip-poor-will

Observation Notes 990

Who-poor-will flushed from nest. Observed 2 eggs in rock barren vegetated patch



Observation Location

Latitude:45.828422,Longitude:-80.62637,Altitude:190.0,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/09/2015 12:33:16 EDT

Map Number: S-M28 | Field Crew: OLGA HROPACH CASEY O'DRISCOLL 951

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	3	
Start Date	6/10/2015 11:31:23 AM	Precipitation	1	
End Date	6/10/2015 11:32:11 AM	Cloud Cover	100.00	

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 642

8 m long by 3 m wide and 30 cm deep. Surrounded by red maple, paper birch, speckled Alder. Surrounding edge vegetation includes Sheep laurel, Sphagnum, wintergreen. Some submerged branches and twigs that egg masses could have been attached to. Has p



Feature Location

Latitude:45.839581,Longitude:-80.598195,Altitude:192.9,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:06/11/2015 09:23:56 EDT

Wildlife Observations - WEC

AECOM

Feature: Marsh Bird Breeding Habitat

Feature Description: 645

Fen dominated by sedges with lots of open water



Feature Location

Latitude:45.835631,Longitude:-80.591314,Altitude:202.2,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:30:56 EDT

Feature: Reptile Hibernacula

Feature Description: 648

Suitable gestation habitat on fissured rock barrens facing south east



Feature Location

Latitude:45.835683,Longitude:-80.591386,Altitude:202.9,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:56:19 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Unknown snake

Observation Notes 993

Observed snake skin, likely eastern gartersnake skin



Observation Location

Latitude:45.840086,Longitude:-80.600276,Altitude:188.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/10/2015 11:33:34 EDT

Species: Turkey vulture

Observation Notes 996

Turkey vulture flushed from nest in rock barren den. Found one egg.



Observation Location

Latitude:45.835657,Longitude:-80.591331,Altitude:203.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:52:06 EDT

Map Number	S-M47	Field Crew	KAMSTRA , WASHBURN		954
Feature ID	S-M47 (58)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	0		
Start Date	6/12/2015 9:05:37 AM	Precipitation	1		
End Date	6/12/2015 9:07:59 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Canada Warbler

Observation Notes 999

1 singing male

Observation Location

Latitude:45.825656,Longitude:-80.689556,Altitude:186.8,Speed:0.020577777,Accuracy:2.7,Provider:gps,Time:06/12/2015 09:07:35 EDT

Map Number	S-M40	Field Crew	KASEY & JASON		957
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/15/2015 11:40:49 AM	Precipitation	0		
End Date	6/15/2015 3:37:42 PM	Cloud Cover	60.00		

Wildlife Observations

Species: Unknown Turtle eggs

Observation Notes 1002

Predated turtle nest on beach area in Sandy bay



Observation Location

Latitude:45.810868,Longitude:-80.661092,Altitude:179.7,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/15/2015 11:41:50 EDT

Wildlife Observations - WEC

AECOM

Species: Smooth Greensnake

Observation Notes 1005

Sunning on lichen on rock barren



Observation Location

Latitude:45.819148,Longitude:-80.657776,Altitude:0.0,Speed:0.0463,Accuracy:100.0,Provider:gps,Time:06/15/2015 12:39:51 EDT

Map Number	S-M17	Field Crew	JOHANNA PERZ		960
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	0	Humid	
Start Date	6/15/2015 9:54:16 AM	Precipitation	0		
End Date	6/15/2015 9:54:19 AM	Cloud Cover	100.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 1008

Glancing turtle dove into water after sitting on shore



Observation Location

Latitude:45.832562,Longitude:-80.632767,Altitude:202.7,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/15/2015 09:56:26 EDT

Map Number	S-M48	Field Crew	JOHANNA PERZ		963

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	0		
Start Date	6/15/2015 1:27:52 PM	Precipitation	0		
End Date	6/15/2015 1:27:56 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Five-lined Skink

Observation Notes 1011

Skink under rock that was shifted



Observation Location

Latitude:45.839313,Longitude:-80.702644,Altitude:186.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/15/2015 01:29:10 EDT

Map Number	N-M30	Field Crew	SARAH RICHER		966
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0	Very foggy	
Start Date	6/15/2015 9:15:25 AM	Precipitation	0		
End Date	6/15/2015 9:15:28 AM	Cloud Cover	100.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 651

Large rock shelf forms den approximately 30-40 cm tall inside, more than 1 m. Back, over 2 m long entrance, smells of recent use



Feature Location

Latitude:45.87992,Longitude:-80.671992,Altitude:189.7,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/15/2015 09:18:00 EDT

Feature: Woodland Raptor Nesting Habitat

Feature Description: 654

Red-tailed hawk nest, active, adults present and very vocally opposed to our presence. Nest is in one fork of a tall white pine tree that is split into two forks of equal height; pine tree is on island in middle of wetland. Actual location is in N-M30;



Feature Location

Latitude:46.102045,Longitude:-80.587282,Altitude:197.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/15/2015 05:38:25 EDT

Map Number	N-M21	Field Crew	SARAH RICHER		972
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	6/15/2015 2:40:39 PM	Precipitation	0		
End Date	6/15/2015 2:40:47 PM	Cloud Cover	80.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Kirtland's Warbler

Observation Notes 1017

Male and female, male singing repeatedly, responded to call broadcast

Observation Location

Latitude:45.879177,Longitude:-80.64919,Altitude:187.8,Speed:0.19034444,Accuracy:1.5,Provider:gps,Time:06/15/2015 03:23:58 EDT

Map Number	N-M31	Field Crew	AMI AMY		975
Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	5		
Start Date	6/15/2015 8:48:28 AM	Precipitation	0		
End Date	6/15/2015 8:48:30 AM	Cloud Cover	100.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1020

Snake on rock



Observation Location

Latitude:45.885358,Longitude:-80.676598,Altitude:182.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/15/2015 08:47:32 EDT

Map Number	S-M48	Field Crew	KRISTAN WASHBURN AND AYESHA PRASED	978

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes
Tablet	AECOM15	Wind Speed (beaufort)	0	
Start Date	6/15/2015 11:24:47 AM	Precipitation	0	
End Date	6/15/2015 11:25:32 AM	Cloud Cover	100.00	

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1023

Just off rock barren in juniper and blueberry bushes



Observation Location

Latitude:45.831238,Longitude:-80.700698,Altitude:185.7,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/15/2015 11:26:23 EDT

Map Number	N-M31	Field Crew	SARAH RICHER	981

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM19	Wind Speed (beaufort)	2	
Start Date	6/16/2015 8:35:08 AM	Precipitation	0	
End Date	6/16/2015 8:35:15 AM	Cloud Cover	0.00	

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1026

Shed skin of individual confirmed at exact same location yesterday



Observation Location

Latitude:45.885367,Longitude:-80.676562,Altitude:182.6,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/16/2015 08:27:05 EDT

Map Number	N-M1	Field Crew	SARAH RICHER		984
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/16/2015 11:16:56 AM	Precipitation	0		
End Date	6/16/2015 11:16:58 AM	Cloud Cover	30.00		

Wildlife Observations

Species: Wood Thrush

Observation Notes 1029

Singing

Observation Location

Latitude:45.888817,Longitude:-80.573692,Altitude:192.9,Speed:0.0926,Accuracy:1.75,Provider:gps,Time:06/16/2015 11:16:46 EDT

Wildlife Observations - WEC

AECOM

Species: Eastern Wood-Pewee

Observation Notes 1032

Singing

Observation Location

Latitude:45.888764,Longitude:-80.575163,Altitude:194.0,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/16/2015 01:15:04 EDT

Map Number	N-M52	Field Crew	TOM SHORNEY, ADAM MCCLELLAND	990	
Feature ID	ELC-N-M52 (487)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	6/15/2015 10:37:37 AM	Precipitation	0		
End Date	6/15/2015 6:27:03 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1053

Basking in wetland

Observation Location

Latitude:45.865907,Longitude:-80.631118,Altitude:189.8,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/15/2015 11:36:54 EDT



Wildlife Observations - WEC

AECOM

Species: Snapping turtle

Observation Notes 1056

Basking in shallow stream



Observation Location

Latitude:45.869369,Longitude:-80.605601,Altitude:218.8,Speed:0.26236665,Accuracy:2.7,Provider:gps,Time:06/15/2015 02:43:13 EDT

Map Number	N-M5	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD		996
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 2:53:07 PM	Precipitation	0		
End Date	6/16/2015 2:53:09 PM	Cloud Cover	25.00		

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 660

Deeps cracks in rocks with a shed garter snake skin adjacent



Feature Location

Latitude:45.871849,Longitude:-80.601886,Altitude:187.0,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:06/16/2015 02:54:42 EDT

Map Number	S-M42	Field Crew	TOM SHORNEY ADAM MCCLELLAND	999

Wildlife Observations - WEC

AECOM

Feature ID	Na	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/16/2015 9:50:02 AM	Precipitation	0		
End Date	6/16/2015 6:00:46 PM	Cloud Cover	0.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 663

Den along bedrock ridge adjacent to treed fen. Den relatively deep approximately 1.5 m long with a 40 cm by 50 cm opening. Trail to feature



Feature Location

Latitude:45.820261,Longitude:-80.631235,Altitude:193.2,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/16/2015 02:10:42 EDT

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1050

Basking in juniper



Observation Location

Latitude:45.813472,Longitude:-80.64386,Altitude:179.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/16/2015 09:50:56 EDT

Map Number	N-M6	Field Crew	INGRISELLI ARSENAULT	1002

Wildlife Observations - WEC

AECOM

Feature ID	Wb-n-m6-3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	6/16/2015 11:50:48 AM	Precipitation	0		
End Date	6/16/2015 11:57:16 AM	Cloud Cover	10.00		

Wildlife Observations

Species: Snapping turtle

Observation Notes 1059

Turtle was sitting in flowing water of watercourse. Photo is of observation location



Observation Location

Latitude:45.872428,Longitude:-80.607033,Altitude:0.0,Speed:0.0,Accuracy:100.0,Provider:gps,Time:06/16/2015 11:51:46 EDT

Map Number	N-M6	Field Crew	MENDOZA PARROTT		1005
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/17/2015 12:02:44 PM	Precipitation	0		
End Date	6/17/2015 12:02:47 PM	Cloud Cover	90.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1062

Heard rattle but didn't see snake



Observation Location

Latitude:45.871736,Longitude:-80.604968,Altitude:183.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/17/2015 12:01:30 EDT

Map Number	N-M33	Field Crew	JOHANNA PERZ		1008
Feature ID	SN-N-M33-3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	6/17/2015 9:44:10 AM	Precipitation	0		
End Date	6/17/2015 9:45:23 PM	Cloud Cover	95.00		

Wildlife Observations

Species: Midland painted turtle

Observation Notes 1065

Basking on log in beaver pond with abundant emergent and float vegetation; numerous logs and some vegetation mats suitable for basking.



Observation Location

Latitude:45.857554,Longitude:-80.664478,Altitude:194.0,Speed:0.15433334,Accuracy:2.1,Provider:gps,Time:06/17/2015 09:45:49 EDT

Map Number	N-M27	Field Crew	JOHANNA PERZ		1011

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	2		
Start Date	6/17/2015 11:49:01 AM	Precipitation	0		
End Date	6/17/2015 11:49:53 AM	Cloud Cover	90.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 666

Jack pine rock barren with deep cave, nearby vegetation includes juniper, trembling aspen saplings, jack spruce, white pine and black spruce



Feature Location

Latitude:45.856742,Longitude:-80.650633,Altitude:192.7,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:06/17/2015 11:50:26 EDT

Map Number	S-M17	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD		1014
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/17/2015 10:18:28 PM	Precipitation	0		
End Date	6/17/2015 10:18:30 PM	Cloud Cover	80.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1068

Rattled while walking past . In blueberries of rock barren



Observation Location

Latitude:45.8305,Longitude:-80.625737,Altitude:182.7,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:06/17/2015 01:52:52 EDT

Map Number	S-M39	Field Crew	KASEY & JASON		1017
Feature ID	ELC-S-M39(247)	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/16/2015 12:10:08 PM	Precipitation	0		
End Date	6/16/2015 12:22:58 PM	Cloud Cover	25.00		

Wildlife Observations

Species: Common nighthawk

Observation Notes 1071

Flushed Nighthawk off nest on open rock barren patch, 2 mottled eggs right on open rock



Observation Location

Latitude:45.817727,Longitude:-80.665102,Altitude:186.7,Speed:0.09774444,Accuracy:1.75,Provider:gps,Time:06/16/2015 11:47:20 EDT

Map Number	S-M39	Field Crew	KASEY & JASON	1020

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/17/2015 9:44:11 AM	Precipitation	0		
End Date	6/17/2015 3:45:56 PM	Cloud Cover	90.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake, Eastern Gartersnak

Observation Notes 1074

3 juvenile garter snakes & 1 juvenile massasauga rattlesnake found under flat rock and pieces of wood piled together on rock barren



Observation Location

Latitude:45.813674,Longitude:-80.675759,Altitude:183.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/17/2015 09:48:00 EDT

Species: Midland painted turtle

Observation Notes 1077

On rock barren adjacent to wetland



Observation Location

Latitude:45.814641,Longitude:-80.675663,Altitude:175.1,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/17/2015 03:43:10 EDT

Map Number		Field Crew		1023

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Turtle and Lizard Nesting Areas

Feature Description 669

Large sandy area near edge of open water pond. Potentially some nests present.



Feature Location

Latitude:45.862371,Longitude:-80.582877,Altitude:191.8,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/17/2015 12:08:50 EDT

Feature: Turtle and Lizard Nesting Areas

Feature Description 672

Nest with hatched/ predated eggs present on small sandy patch on edge of open water pond



Feature Location

Latitude:45.862647,Longitude:-80.58358,Altitude:184.2,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/17/2015 01:21:27 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 1080

Obsevered on edge of swamp basking on small sandy patch



Observation Location

Latitude:45.862368,Longitude:-80.583008,Altitude:197.1,Speed:0.24693333,Accuracy:1.75,Provider:gps,Time:06/17/2015 12:14:57 EDT

Map Number	S-M25	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD		1026
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/18/2015 9:40:54 AM	Precipitation	0		
End Date	6/18/2015 9:40:56 AM	Cloud Cover	10.00		

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1083

Basking on rocks near so,even vegetation . Very aggregavated gestating?



Observation Location

Latitude:45.834191,Longitude:-80.611389,Altitude:187.2,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/18/2015 09:42:53 EDT

Map Number		Field Crew		1029

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 675

Steep south facing loose rock pile adjacent to meadow marsh and shallow aquatic, lots of crevices and some veg cover



Feature Location

Latitude:45.831265,Longitude:-80.642277,Altitude:176.5,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/18/2015 11:44:54 EDT

Map Number	S-M6	Field Crew	ADAM, SARAH		1032
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	4		
Start Date	6/17/2015 12:17:57 PM	Precipitation	0		
End Date	6/17/2015 12:24:07 PM	Cloud Cover	60.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Ring-necked snake

Observation Notes 1086

Juvenile



Observation Location

Latitude:45.8467,Longitude:-80.589621,Altitude:182.1,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:06/17/2015 12:20:09 EDT

Map Number: S-M6 | Field Crew: ADAM, SARAH | 1035

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes
Tablet	AECOM3	Wind Speed (beaufort)	3	
Start Date	6/18/2015 8:41:46 AM	Precipitation	0	
End Date	6/18/2015 11:34:36 AM	Cloud Cover	100.00	

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 1089

On forest floor



Observation Location

Latitude:45.845134,Longitude:-80.588976,Altitude:203.0,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:06/18/2015 08:42:11 EDT

Wildlife Observations - WEC

AECOM

Species: Eastern Gartersnake

Observation Notes 1092

On forest floor, appears injuredFound in S-M7



Observation Location

Latitude:45.848873,Longitude:-80.599186,Altitude:192.4,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:

Map Number	S-M7	Field Crew	SARAH RICHER ADAM MCCLELLAND	1038	
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	6/18/2015 11:28:11 AM	Precipitation	0		
End Date	6/18/2015 11:28:14 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Amphibian Breeding Habitat (Woodland)

Feature Description 678

Vernal pool in coniferous-dominated mixed forest, 12 m by 7 m and approximately 30-40 cm deep, mountain holly and northern wild raisin around edges, and sphagnum around edges and floating / extending out into the middle, ideal breeding habitat for var



Feature Location

Latitude:45.848894,Longitude:-80.59824,Altitude:188.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:30:27 EDT

Map Number	S-M29	Field Crew	ADAM, SARAH	1041

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/18/2015 2:24:32 PM	Precipitation	0		
End Date	6/18/2015 2:30:53 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Four-toed salamander

Observation Notes 1095

In leaf litter

Observation Location

Latitude:45.84072,Longitude:-80.591061,Altitude:199.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/18/2015 02:23:25 EDT



Map Number	A-M2	Field Crew	MIKE ROB		1050
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	0		
Start Date	6/19/2015 8:07:59 AM	Precipitation	0		
End Date	6/19/2015 8:08:02 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Canada Warbler

Observation Notes 1107

Male singing

Observation Location

Latitude:45.890202,Longitude:-80.554578,Altitude:213.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/19/2015 08:10:24 EDT

Map Number	N-M21	Field Crew	ROB CONOHAN		1053
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	6/19/2015 12:30:16 PM	Precipitation	0		
End Date	6/19/2015 12:30:19 PM	Cloud Cover	25.00		

Wildlife Observations

Species: Kirtland's Warbler

Observation Notes 1110

Male singing.

Observation Location

Latitude:45.88015,Longitude:-80.648158,Altitude:190.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/19/2015 12:32:26 EDT

Map Number	S-NA	Field Crew	SARAH RICHER	1056

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/19/2015 8:12:47 AM	Precipitation	0		
End Date	6/19/2015 8:12:50 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Eastern Wood-Pewee

Observation Notes 1113

One male, Singing, from southeast of the boat launch

Observation Location

Latitude:45.857774,Longitude:-80.633049,Altitude:173.8,Speed:0.0926,Accuracy:2.7,Provider:gps,Time:06/19/2015 08:11:25 EDT

Map Number	N-M33	Field Crew	SARAH RICHER		1059
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/19/2015 9:45:10 AM	Precipitation	0		
End Date	6/19/2015 9:45:12 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 681

Rock shelves that create a cave suitable for a den or roost; approximately 1 m deep, 1 m wide at widest point of entrance, 30 cm high at lowest ceiling point inside, evidence of recent use



Feature Location

Latitude:45.857503,Longitude:-80.662611,Altitude:178.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/19/2015 09:46:23 EDT

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description: 684

Wolf den. Area here w 30 m radius hosts 3 large dens; largest made by rock overhang, approximately 2.5 m deep at farthest back point, 1 m high at tallest , entrance approximately 3 m wide, evidence of recent use (large nest of needles, hair, canid feces



Feature Location

Latitude:45.860035,Longitude:-80.664139,Altitude:190.0,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:06/19/2015 11:21:01 EDT

Wildlife Observations - WEC

AECOM

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 687

Cave den created by rock overhang, approx 2 m deep in, 1 m wide entrance, 40 cm at highest inside



Feature Location

Latitude:45.861083,Longitude:-80.665699,Altitude:190.0,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/19/2015 11:28:33 EDT

Wildlife Observations

Species: Common Nighthawk

Observation Notes 1116

Adult; flushed from ground at our approach, calling repeatedly

Observation Location

Latitude:45.860847,Longitude:-80.666734,Altitude:187.0,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/19/2015 11:37:15 EDT

Map Number	S-M17	Field Crew	JOHANNA PERZ	1062
Feature ID	TU-S-M17	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	2	
Start Date	6/19/2015 11:45:09 AM	Precipitation	0	
End Date	6/19/2015 11:45:05 AM	Cloud Cover	7.00	

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Five-lined skink

Observation Notes 1119

Running between rock crevice on jack pine rock barren



Observation Location

Latitude:45.834173,Longitude:-80.632185,Altitude:197.1,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:06/19/2015 12:06:20 EDT

Map Number	N-M33	Field Crew	TOM SHORNEY , DAN MCPARLAND	1080	
Feature ID	SN-N-M33-1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	4		
Start Date	6/11/2015 1:32:47 PM	Precipitation	0		
End Date	6/11/2015 1:36:25 PM	Cloud Cover	10.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 690

Large cave in rock, approx 10 m long 5 meters deep and 70 high



Feature Location

Latitude:45.856149,Longitude:-80.662492,Altitude:184.5,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/11/2015 02:03:23 EDT

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common Nighthawk

Observation Notes 1137

Flushed from forest floor. Potential nesting location

Observation Location

Latitude:45.858022,Longitude:-80.663104,Altitude:187.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:31:03 EDT

Map Number	S-M14	Field Crew	SARAH RICHER		1122
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	6/26/2015 5:53:09 AM	Precipitation	0		
End Date	6/26/2015 5:53:11 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 1176

Hatchling shell?!

Observation Location

Latitude:45.849185,Longitude:-80.632019,Altitude:203.3,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:06/26/2015 05:55:36 EDT

Map Number	S-M31	Field Crew	SARAH RICHER	1125

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/26/2015 10:20:27 AM	Precipitation	0		
End Date	6/26/2015 10:20:30 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Blanding's turtle

Observation Notes 1179

Adult, basking approx 40 m northeast of recorded position; picture is of habitat

Observation Location

Latitude:45.840779,Longitude:-80.653182,Altitude:183.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/26/2015 10:22:34 EDT

Map Number	S-NA	Field Crew	SARAH RICHER		1128
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/26/2015 11:36:19 AM	Precipitation	0		
End Date	6/26/2015 11:36:21 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species	Eastern Gartersnake

Observation Notes 1182

Crossing Beckanon road, going south

Observation Location

Latitude:45.860006,Longitude:-80.617515,Altitude:200.7,Speed:0.0051444443,Accuracy:2.7,Provider:gps,Time:06/26/2015 11:38:46 EDT

Map Number	N-NA	Field Crew	SARAH RICHER KASEY MCKENZIE		1131
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	1		
Start Date	6/29/2015 10:35:11 AM	Precipitation	0		
End Date	6/29/2015 10:35:14 AM	Cloud Cover	100.00		

Wildlife Observations

Species	Unknown turtle

Observation Notes 1185

Skeletal remains roadside, unidentifiable to species



Observation Location

Latitude:45.887575,Longitude:-80.565596,Altitude:201.2,Speed:0.030866666,Accuracy:2.7,Provider:gps,Time:06/29/2015 10:36:30 EDT

Map Number	N-M8	Field Crew	SARAH RICHER JOHANNA PERZ	1137

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes
Tablet	AECOM18	Wind Speed (beaufort)	1	
Start Date	6/30/2015 7:01:29 AM	Precipitation	0	
End Date	6/30/2015 7:01:32 AM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 714

Treed fen/bog area with Sphagnum hummocks, dominated by mountain holly and tamarack, and both royal and interrupted fern



Feature Location

Latitude:45.884015,Longitude:-80.620766,Altitude:196.3,Speed:0.025722222,Accuracy:2.25,Provider:gps,Time:06/30/2015 07:02:55 EDT

Map Number	N-M10	Field Crew	JOHANNA PERZ SARAH RICHER	1140
Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes
Tablet	AECOM18	Wind Speed (beaufort)	1	
Start Date	6/30/2015 10:15:31 AM	Precipitation	0	
End Date	6/30/2015 10:15:33 AM	Cloud Cover	60.00	

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Canada Warbler

Observation Notes 1188

male singing and female scolding; photo is of habitat, winterberry shrub and alder thicket swamp adjacent to treed rock barrens



Observation Location

Latitude:45.883939,Longitude:-80.631443,Altitude:184.5,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/30/2015 10:17:50 EDT

Map Number	N-M9	Field Crew	SARAH RICHER JOHANNA PERZ		1143
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	1		
Start Date	6/30/2015 5:15:09 AM	Precipitation	0		
End Date	6/30/2015 5:15:51 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Common Nighthawk

Observation Notes 1191

Adult singing while flying above us

Observation Location

Latitude:45.887252,Longitude:-80.628294,Altitude:194.6,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:06/30/2015 11:12:48 EDT

Map Number		Field Crew		1161

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Eastern Gartersnake

Observation Notes 1209

Laying in patch of vaccinium angustifolium



Observation Location

Latitude:45.839562,Longitude:-80.59943,Altitude:198.1,Speed:0.7768111,Accuracy:4.5,Provider:gps,Time:06/10/2015 03:31:59 EDT

Map Number	N-M29	Field Crew	KAMSTRA		1188
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/26/2015 7:59:06 AM	Precipitation	0		
End Date	6/26/2015 7:59:50 AM	Cloud Cover	25.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Porcupine den

Observation Notes 1248

50x50 cm cave on barren. Abundant feces



Observation Location

Latitude:45.875913,Longitude:-80.668013,Altitude:189.4,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/26/2015 08:01:38 EDT

Map Number	N-M22	Field Crew	KAMSTRA	1191	
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	6/26/2015 10:28:30 AM	Precipitation	0		
End Date	6/26/2015 10:52:37 AM	Cloud Cover	30.00		

Wildlife Observations

Species: Kirtland's Warbler

Observation Notes 1251

Singing male at 10:00. Scattered Jack pines 25 percent cover junipers 40 percentBird sang for 2 minutes then flew off. Sang briefly from50 m to N. Returned briefly 5 minutes later



Observation Location

Latitude:45.87946,Longitude:-80.648991,Altitude:184.1,Speed:0.010288889,Accuracy:1.25,Provider:gps,Time:06/26/2015 10:30:50 EDT

Wildlife Observations - WEC

AECOM

Map Number	N-M49	Field Crew	SARAH RICHER CASEY O'DRISCOLL		1155
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	3		
Start Date	7/1/2015 8:07:18 AM	Precipitation	0		
End Date	7/1/2015 8:07:21 AM	Cloud Cover	100.00		

Wildlife Habitat Observations

Feature: Denning Sites for Mink, Otter, Marten, Fisher and Eastern Wolf

Feature Description 720

Gggg



Feature Location

Latitude:45.873532,Longitude:-80.721529,Altitude:187.0,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:07/01/2015 08:08:51 EDT

Map Number	N-M1	Field Crew	JULIE ELLIS		1158
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM21	Wind Speed (beaufort)	2		
Start Date	7/1/2015 4:01:59 PM	Precipitation	0		
End Date	7/1/2015 4:02:02 PM	Cloud Cover	50.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Ovenbird

Observation Notes 1203

Calling

Observation Location

Latitude:45.887692,Longitude:-80.57213,Altitude:200.3,Speed:0.07202222,Accuracy:2.7,Provider:gps,Time:07/01/2015 02:36:10 EDT

Species: Black throated green Warbler

Observation Notes 1206

Calling

Observation Location

Latitude:45.887693,Longitude:-80.572128,Altitude:200.2,Speed:0.015433333,Accuracy:2.7,Provider:gps,Time:07/01/2015 02:36:41 EDT

Map Number	N-M35	Field Crew	KORPIJAAKKO	1164	
Feature ID	AaS -n-m35-16	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	2		
Start Date	7/1/2015 12:03:29 PM	Precipitation	0		
End Date	7/1/2015 12:09:45 PM	Cloud Cover	50.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature	Marsh Bird Breeding Habitat
Feature Description	723

Note that coordinate collected is incorrect

Feature Location

Latitude:46.101766,Longitude:-80.587045,Altitude:194.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:07/01/2015 04:25:23 EDT

Wildlife Observations

Species	Sandhill Crane
Observation Notes	1212

North Map 35 in Fen near AAS-N-M35-16. Note coordinate taken is incorrect in this form.

Observation Location

Latitude:45.861202,Longitude:-80.667313,Altitude:180.7,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:07/01/2015 02:11:22 EDT

Map Number	S-M4	Field Crew	SARAH RICHER CASEY O'DRISCOLL		1167
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	0		
Start Date	7/2/2015 4:53:39 AM	Precipitation	0		
End Date	7/2/2015 5:29:51 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Common Nighthawk

Observation Notes 1215

Adult singing while flying overhead

Observation Location

Latitude:45.850124,Longitude:-80.572674,Altitude:188.8,Speed:0.16462222,Accuracy:2.4,Provider:gps,Time:07/02/2015 05:31:29 EDT

Species: Eastern Whip-poor-will

Observation Notes 1218

One adult hear singing to the Northwest of this position, within 250 m

Observation Location

Latitude:45.850125,Longitude:-80.572674,Altitude:188.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:07/02/2015 05:32:10 EDT

Species: Wood Thrush

Observation Notes 1221

Three adults heard singing while standing at this location

Observation Location

Latitude:45.850127,Longitude:-80.572674,Altitude:188.8,Speed:0.07202222,Accuracy:2.4,Provider:gps,Time:07/02/2015 05:33:00 EDT

Wildlife Observations - WEC

AECOM

Map Number	S-M2	Field Crew	SARAH RICHER CASEY O'DRISCOLL	1170

Feature ID	BB-S-M2-21	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	0		
Start Date	7/2/2015 8:01:47 AM	Precipitation	0		
End Date	7/2/2015 8:01:49 AM	Cloud Cover	0.00		

Wildlife Observations

Species: American Marten

Observation Notes 1224

Approached during survey to, within 20 m of us, curious and circling. White bib, dark butterscotch colour. Picture is of habitat



Observation Location

Latitude:45.862477,Longitude:-80.574463,Altitude:202.7,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:07/02/2015 08:04:36 EDT

Map Number	S-M3	Field Crew	SARAH RICHER CASEY O'DRISCOLL	1173

Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM18	Wind Speed (beaufort)	2		
Start Date	7/2/2015 11:30:46 AM	Precipitation	0		
End Date	7/2/2015 11:30:51 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Smooth Green Snake

Observation Notes 1227

Approximately 20 cm, quickly escaped to shrubby cover; on open rock barren surrounded by mixed forest with completely closed canopy

Observation Location

Latitude:45.855801,Longitude:-80.570968,Altitude:192.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:07/02/2015 11:32:53 EDT

Map Number	N-M11	Field Crew	KRISTAN WASHBURN	1176
Feature ID	N-M11	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)	2	
Start Date	7/1/2015 8:18:25 AM	Precipitation	1	
End Date	7/2/2015 4:18:31 PM	Cloud Cover	100.00	

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1230

Curled up in vegetation 35cm long



Observation Location

Latitude:45.86888,Longitude:-80.606958,Altitude:184.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:07/01/2015 09:44:54 EDT

Map Number	S-M29	Field Crew	JOHANNA PERZ	1179

Wildlife Observations - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	7/2/2015 8:26:46 AM	Precipitation	0		
End Date	7/2/2015 8:26:47 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Canada Warbler

Observation Notes 1233

Singing male on territory, habitat is alder swamp with trees (white birch, red maple, larch) surrounded by mixed forest



Observation Location

Latitude:45.84212,Longitude:-80.589379,Altitude:223.4,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:07/02/2015 08:28:28 EDT

Map Number	S-M31	Field Crew	JULIE		1182
Feature ID	AAS-S-M31-3	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM21	Wind Speed (beaufort)	1		
Start Date	7/2/2015 9:07:58 AM	Precipitation	0		
End Date	7/2/2015 9:08:23 AM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Habitat Observations

Feature: Turtle and Lizard Nesting Areas

Feature Description 726

Rocky Pile south facing. Skink entered area



Feature Location

Latitude:45.842084,Longitude:-80.657551,Altitude:182.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:07/02/2015 01:34:28 EDT

Wildlife Observations

Species: Green frog

Observation Notes 1236

One observed, two heard calling

Observation Location

Latitude:45.83992,Longitude:-80.655446,Altitude:186.4,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:07/02/2015 09:09:02 EDT

Wildlife Observations - WEC

AECOM

Species: White throated Sparrow

Observation Notes 1239

Calling

Observation Location

Latitude:45.834744,Longitude:-80.654958,Altitude:197.3,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:07/02/2015 09:48:55 EDT

Species: Five lined skink

Observation Notes 1242

Guard saw lizard run under rocks

Observation Location

Latitude:45.842083,Longitude:-80.657557,Altitude:182.6,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:07/02/2015 01:35:53 EDT

Map Number	S-M27	Field Crew	SARAH RICHER AND JOHANNA PERZ		1185
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	7/3/2015 8:36:24 AM	Precipitation	0		
End Date	7/3/2015 8:36:27 AM	Cloud Cover	0.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Eastern Massasauga Rattlesnake

Observation Notes 1245

Jack pine rock barren, 40cm long, possibly gestating female (wide); near large rocks that could provide shelter, sweet fern and downed woody debris



Observation Location

Latitude:45.834944,Longitude:-80.59183,Altitude:204.6,Speed:0.0,Accuracy:1.75,Provider:gps,Time:07/03/2015 08:38:23 EDT

Map Number	A-M01	Field Crew	SARAH RICHER CASEY O'DRISCOLL		1215
Feature ID	CR-A-M01-89	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1	Poured rain 5 mm all morning and early afternoon	
Start Date	7/7/2015 4:18:14 PM	Precipitation	0		
End Date	7/7/2015 4:18:16 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Blanding's Turtle

Observation Notes 1272

One basking on log



Observation Location

Latitude:45.889986,Longitude:-80.557485,Altitude:192.0,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:07/07/2015 04:20:20 EDT

Map Number	WEC-N-M39	Field Crew	SARAH RICHER		1221

Wildlife Observations - WEC

AECOM

Feature ID	N/a	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	26.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	2	
Start Date	7/8/2015 3:52:43 PM	Precipitation	0	
End Date	7/8/2015 3:52:45 PM	Cloud Cover	0.00	

Wildlife Habitat Observations

Feature: Reptile Hibernacula

Feature Description 735

Tamarack and mountain holly and winterberry and alder and labrador tea and sphagnum swamp, in keeping with literature that notes this type of habitat as valuable for Massasauga rattlesnake hibernation habitat



Feature Location

Latitude:45.874134,Longitude:-80.694702,Altitude:178.0,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:07/08/2015 03:49:21 EDT

Map Number	S-M11	Field Crew	SARAH RICHER		1233
Feature ID	N/a	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	2		
Start Date	7/9/2015 3:03:19 PM	Precipitation	0		
End Date	7/9/2015 3:03:22 PM	Cloud Cover	10.00		

Wildlife Observations - WEC

AECOM

Wildlife Observations

Species: Five-lined skink

Observation Notes 1293

Juvenile, blue tail visible, ran east across Beckanon road in front of my truck, paused briefly before going into bracken ferns



Observation Location

Latitude:45.855005,Longitude:-80.620319,Altitude:155.7,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:07/09/2015 03:04:53 EDT

Wildlife Observations

Map Number	N-m27	Field Crew	MCLEOD INGRISELLI	1317

Feature ID					
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1 Light air movement		
Start Date	8/11/2015 12:48:44 PM	Precipitation	none		
End Date	8/11/2015 12:49:16 PM	Cloud Cover	100.00		

Wildlife Observations

Species: Common Nighthawk

Observation Notes 1383

Nighthawk flew up from observation coordinates, landed approx 10 m away and showed injury display. 2 young observed, confirmed nesting site. Photo is of habitat and young. Near turbine 99 close to previous observation entry from today.



Observation Location

Latitude:45.861208,Longitude:-80.657501,Altitude:173.9,Speed:0.33438888,Accuracy:2.1,Provider:gps,Time:08/11/2015 02:46:03 EDT

Wildlife Observations

Map Number	BO-046	Field Crew	AMY INGRISELLI NATALIYA SIMONOVA AMI ARSENAULT	1260

Feature ID	BO-046				
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	4 Small branches move		
Start Date	9/14/2015 12:02:58 PM	Precipitation	none		
End Date	9/14/2015 12:17:50 PM	Cloud Cover	0.00		

Species: Massasauga Rattlesnake

Observation Notes 1317

Heard rattle while walking through polygon. Did notngisually observed. Ferns moved as snake slithered away.



Observation Location

Latitude:45.833607,Longitude:-80.70365,Altitude:174.7,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:09/14/2015 12:06:39 EDT

Map Number	BO-042	Field Crew	AMY INGRISELLI NATALIYA SIMONOVA AMI ARSENAULT	1266

Wildlife Observations

Feature ID	BO-042			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)	4 Small branches move	
Start Date	9/14/2015 2:29:42 PM	Precipitation	none	
End Date	9/14/2015 3:00:35 PM	Cloud Cover	0.00	

Species: Massasauga Rattlesnake

Observation Notes

1326

Heard rattlesnake when walking through tall grasses. No visual observation.



Observation Location

Latitude:45.827263,Longitude:-80.710318,Altitude:172.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:09/14/2015 02:35:38 EDT

Map Number	BO-061	Field Crew	SIMONOVA, ARSENAULT, INGRISELLI	1272
Feature ID	BO-061			
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)	2 Slight breeze felt on face	
Start Date	9/14/2015 4:07:15 PM	Precipitation	none	
End Date	9/14/2015 4:07:18 PM	Cloud Cover	0.00	

Wildlife Observations

Wildlife Observations

Species: Massasauga Rattlesnake

Observation Notes

1332

Heard rattle as walking by, under shrub (blueberry) cover on rock barren



Observation Location

Latitude:45.836345,Longitude:-80.704953,Altitude:169.1,Speed:0.025722222,Accuracy:2.7,Provider:gps,Time:09/14/2015 04:08:54 EDT

Map Number:

Field Crew:

1296

Feature ID:

Project Number:

Air Temp. (degC):

Weather Notes:

Tablet: AECOM15

Wind Speed (beaufort):

Start Date:

Precipitation:

End Date:

Cloud Cover:

Wildlife Observations

Species: Black and White Warbler

Observation Notes

1356

Black and white warbler



Observation Location

Latitude:45.82721,Longitude:-80.673291,Altitude:180.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:09/15/2015 01:36:28 EDT

Wildlife Observations

Map Number	N-m27	Field Crew	INGRISELLI, MCLEOD	1320

Feature ID					
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1 Light air movement	Muggy	
Start Date	9/3/2015 10:09:15 AM	Precipitation	none		
End Date	9/3/2015 3:34:03 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Massasauga Rattlesnake

Observation Notes 1386

Curled up in sphagnum, labrador tea between rock barrens. Snake moved into hole, photo is of habitat and observation location



Observation Location

Latitude:45.864888,Longitude:-80.659471,Altitude:173.7,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:09/03/2015 10:11:38 EDT

Map Number	S-M	Field Crew	JOHANNA PERZ AMY INGRISELLI	1332

Wildlife Observations

Feature ID	Na				
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3 Leaves move on twigs		
Start Date	9/15/2015 4:19:46 PM	Precipitation	none		
End Date	9/15/2015 4:19:48 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Massasauga Rattlesnake

Observation Notes

1398

Saw small rattlesnake on Argo trail.
Slid under log, photo is of habitat



Observation Location

Latitude:45.830744,Longitude:-80.675592,Altitude:180.7,Speed:0.0051444443,Accuracy:2.7,Provider:gps,Time:09/15/2015 04:20:48 EDT

Map Number	BO-003	Field Crew	KASEY MCKENZIE & TOM SHORNEY	1410

Wildlife Observations

Feature ID	BO-003				
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1 Light air movement		
Start Date	9/17/2015 11:24:05 AM	Precipitation	none		
End Date	9/17/2015 11:26:44 AM	Cloud Cover	0.00		

Wildlife Observations

Species: Massasauga rattlesnake

Observation Notes

Walking through bog rattled at us, smaller one, 20-25 cm long

1473



Observation Location

Latitude:45.877957,Longitude:-80.58305,Altitude:195.7,Speed:0.030866666,Accuracy:3.0,Provider:gps,Time:09/17/2015 11:25:05 EDT

Wildlife Observations

Map Number	FO-138-1	Field Crew	JULIE, ADAM		1445
Feature ID					
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	4 Small branches move		
Start Date	10/14/2015 1:55:06 PM	Precipitation	none		
End Date	10/14/2015 1:56:08 PM	Cloud Cover	0.00		

Wildlife Observations

Species: Bald eagle

Observation Notes 1490

Flying over flowerpot bay, north shore of inlet

Observation Location

Latitude:45.854226,Longitude:-80.646743,Altitude:182.0,Speed:12.166611,Accuracy:1.8,Provider:gps,Time:10/14/2015 04:43:44 EDT

Wildlife Observations

Map Number		Field Crew		1466	
Feature ID					
Project Number		Air Temp. (degC)		Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)			
Start Date		Precipitation			
End Date		Cloud Cover			

Wildlife Observations

Species: Massasauga Rattlesnake

Observation Notes 1505

Small rattle snake observed in low lying bog. Potential hibernacula.



Observation Location

Latitude:45.855711,Longitude:-80.675245,Altitude:186.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:10/20/2015 02:59:03 EDT

Wildlife Habitat

Record: 1398

Survey Information	
Project Number	*60341251*
Map Number	*DEN-001*
Feature ID	*DEN-001*
Field Crew	*Julie ellis Amy ingriselli*
Start Timestamp	*2015-09-17 10:15:25*
End Timestamp	*2015-09-17 10:41:39*

Weather	
Air Temperature (deg C)	*22*
Wind Speed (Beaufort Scale)	*4 Small branches move*
Precipitation	*none*
Cloud Cover (%)	*0*

Habitat Observations	
Feature	
Feature Location	
Feature Description	*Verified den identified in previous survey. Not a den. Triangular Crack in rock; where piece of rock broke off from bedrock barren. Open, exposed to elements. Width 0.75m, height 1.09. Facing east on side of rock barren. No evidence of animal activity (scat, tracks, etc.) observed in or in vicinity of den. Possible game trail in forested area next to den opening. Amy's camera photos 489- 505*
Feature Photo	

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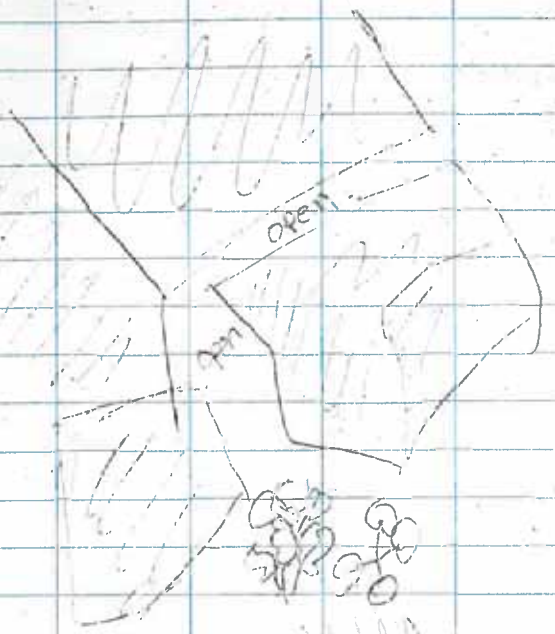
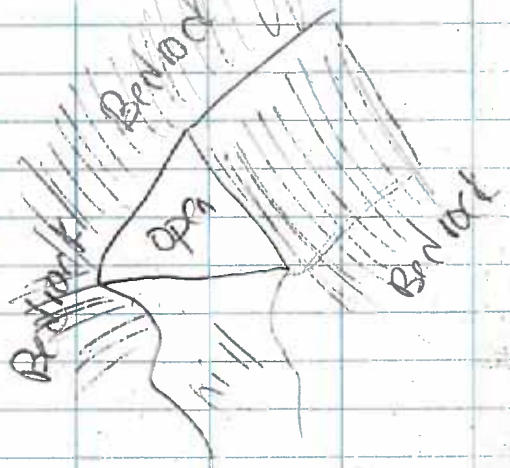
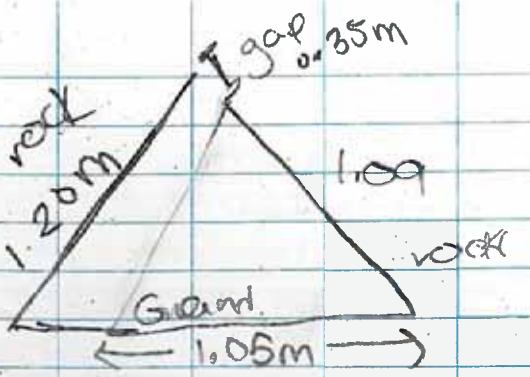
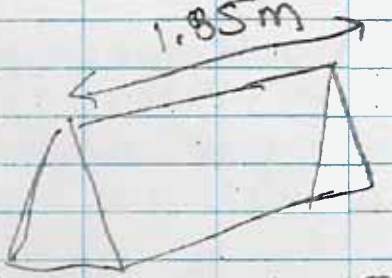
DEN-001 Sept 17, 2015

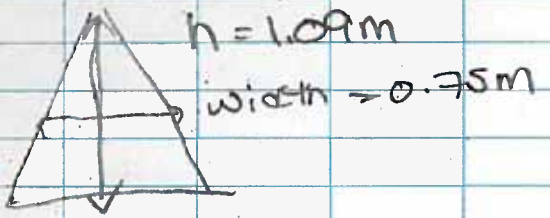








ground - dirt, moss heavy
- no track, rub mark, scratch



Facing east, open env, poor den, interchange between rock barren & woodland

Rite in the Rain

Wildlife Habitat

Record: 1407

Survey Information	
Project Number	*60341251*
Map Number	*DEN-002*
Feature ID	*DEN-002*
Field Crew	*Tom shorney, Kasey Mckenzie*
Start Timestamp	*2015-09-17 10:19:58*
End Timestamp	*2015-09-17 11:08:03*

Weather	
Air Temperature (deg C)	*26*
Wind Speed (Beaufort Scale)	*3 Leaves move on twigs*
Precipitation	*none*
Cloud Cover (%)	*0*

Wildlife Observations	
Species	*Mammal Denning Site Surveys*
Observation Location	
Observation Notes	*Den summary:Vertical height of opening is 25 cm,Horizontal length of opening is 43 cm Depth of den is 50 cmGeneral shape of den opening is rectangularDen dug in Sandy substrates dug under a large white pine root. Location is within a mound approximately 10 m from cliff base.Through searching area a small mammal bone observed. Hair collected from den entrance, appeared to be black.From general observation, the den is relatively shallow and may not be large enough for wolf species. Judging by lack of evidence (scat, bones, tracks, etc) it appears this site was not occupied long term.*
Observation Photo	

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Wildlife Habitat

Record: 1416

Survey Information	
Project Number	*60341251*
Map Number	*DEN-003*
Feature ID	*DEN-003*
Field Crew	*Kasey Mckenzie & Tom shorney*
Start Timestamp	*2015-09-17 15:37:25*
End Timestamp	*2015-09-17 15:50:56*

Weather	
Air Temperature (deg C)	*26*
Wind Speed (Beaufort Scale)	*1 Light air movement*
Precipitation	*none*
Cloud Cover (%)	*0*

Habitat Observations	
Feature	
Feature Location	
Feature Description	*Large bear den, on side of rock barren, dug underneath rock overhang, north facing, 3m deep, 6m wide, 80cm vertical entrance, 3m horizontal entrance, bear made nest bed of leafy and pine material, 1 ft deep nest, 2m long and 1m wide, visible paw prints.*
Feature Photo	

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Wildlife Habitat

Record: 1419	
Other Comments	*Either den is inactive or not a den- overturned tree with den like opening*

Survey Information	
Project Number	*60341251*
Map Number	*DEN-004*
Feature ID	*DEN-004*
Field Crew	*J. Perz , E, McNaughton*
Start Timestamp	*2015-09-17 10:03:59*
End Timestamp	*2015-09-17 10:03:03*

Weather	
Air Temperature (deg C)	*18*
Wind Speed (Beaufort Scale)	*2 Slight breeze felt on face*
Precipitation	*none*
Cloud Cover (%)	*0*

Wildlife Observations	
Species	*Mammal Denning Site Surveys*
Observation Location	
Observation Notes	*Hole created by overturned tree; 23 cm in height, width inconsistent 47 cm average . Shallow depth at entrance aprox. 60 cm deep; entrance lacks vegetative cover, on the edge of FOM adjacent to wetland. Does not seem suitable for wolf, marten of fisher*
Observation Photo	

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Appendix B3

2015 Ecological Land Classification Field Notes

ELC - WEC

Map Number	N-M3	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	159

Feature ID	ELC-N-M3(344)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/11/2015 10:05:32 AM	Precipitation	1		
End Date	5/11/2015 10:50:52 AM	Cloud Cover	100.00		

Polygon Description 159

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Mixed
Community	Barren

Stand Species 159

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus resinosa > Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubrum = Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Viburnum cassinoides = Taxus canadensis
Groundcover	6 >0.2-0.5m	4 > 60%	Reindeer lichen> Vaccinium angustifolia> Mayflower
Floating & Submerged		0 None	

Stand Composition 159

	<10	10-24	25-50	>50
Size Class Analysis	O	O	O	N
Standing Snags	R	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Pinus resinosa
Species Dominance 25-50	Pinus resinosa
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		159
Community Age	Mid-Age	
Ecosite	Acidic Treed Rock Barren	
Ecosite Code	RBT3	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		135
Notes	Conducted in treed rock barren.	
Dead	0.00	

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Species	Tally	ID
Pinus resinosa	2.00	279
Acer rubrum	2.00	282

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		84
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	2.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	30.00	Silty sand
Horizon 2			
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	90.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Silty sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M3	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	162

Feature ID	ELC-N-M3(196)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/11/2015 11:08:35 AM	Precipitation	1		
End Date	5/11/2015 11:49:52 AM	Cloud Cover	100.00		

Polygon Description 162

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Forest

Stand Species 162

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus banksiana > Pinus strobus
Sub Canopy	2 >6-25m	4 > 60%	Betula papyrifera = Acer rubrum
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis = Viburnum cassinoides
Groundcover	6 >0.2-0.5m	4 > 60%	Moss spp. > Vaccinium angustifolia > Gaultheria procumbens
Floating & Submerged		0 None	

Stand Composition 162

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Pinus strobus > Picea marina
Species Dominance 10-24	Pinus banksiana = Pinus strobus > Acer rubrum
Species Dominance 25-50	Pinus strobus > Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		162
Community Age	Mid-Age	
Ecosite	Dry-Fresh Pine Coniferous forest	
Ecosite Code	FOC1	
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty	
Vegetation Type Code	FOC1-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		138
Notes		Location
		Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:
Dead	0.00	



Species	Tally	ID
Pinus banksiana	3.00	285

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

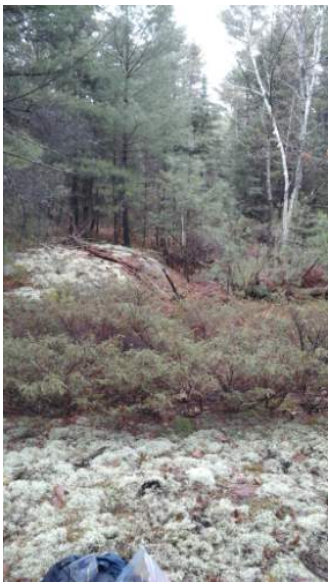
Soil Description

Pit ID	1		87
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	12.00	Gley	0.00
Slope Percent	15.00	Water Table	0.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	25.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00		Sandy loam
Horizon 2	25.00	5.00	Silty sand
Horizon 3		0.00	
Horizon 4			

% Surface Stone	7.00
Moisture Regime	Moderately dry
Drainage	Rapid
Effective Texture	Silty sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M3	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	165

Feature ID	ELC-N-M3(105)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/11/2015 12:33:41 PM	Precipitation	1		
End Date	5/11/2015 1:14:46 PM	Cloud Cover	100.00		

Polygon Description 165

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Mixed
Community	Forest

Stand Species 165

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus strobus> Pinus banksiana= Pinus resinosa
Sub Canopy	2 >6-25m	4 > 60%	Acer rubrum> Betula papyrifera= Quercus rubra
Shrub	5 >0.5-1m	3 25 - 60%	Viburnum cassinoides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cornus canadensis = Gaultheria procumbens > Club moss spp.
Floating & Submerged		0 None	

Stand Composition 165

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 165

Community Age	Mid-Age
Ecosite	Dry-Fresh White Pine-Maple-Oak Mixed Forest
Ecosite Code	FOM2
Vegetation Type	Dry-Fresh White Pine -Oak Mixed Forest Type
Vegetation Type Code	FOM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 141

Notes

Dead

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Species	Tally	ID
Pinus strobus	6.00	288
Pinus resinosa	1.00	291
Betula papyrifera	2.00	294
Acer rubrum	2.00	297

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		90
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	18.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	18.00	5.00	Sandy loam
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	5.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Sandy loam

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M3	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	168

Feature ID	ELC-N-M3(422)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/11/2015 1:44:28 PM	Precipitation	1		
End Date	5/11/2015 2:05:47 PM	Cloud Cover	100.00		

Polygon Description 168

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 168

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus = Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Acer rubrum = Betula papyrifera
Groundcover	6 >0.2-0.5m	2 10 - 25%	Cladonia rangiferina > Juniperus communis = Vaccinium angustifolia
Floating & Submerged		0 None	

Stand Composition 168

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	A	O	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	168

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	144

Notes		Location	
		Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	
Dead			

Species	Tally	ID
Pinus strobus	1.00	300

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		93
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4			

% Surface Stone	91.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Silty sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	171

Feature ID	ELC-N-M5(110)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/11/2015 3:01:37 PM	Precipitation	1		
End Date	5/11/2015 3:34:53 PM	Cloud Cover	100.00		

Polygon Description 171

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Bog

Stand Species 171

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana> Pinus strobus
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata > Carex utriculata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 171

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 171

Community Age	Mid-Age
Ecosite	Coniferous Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black Spruce Treed Bog Type
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 147

Notes

Dead

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Species	Tally	ID
Picea mariana	1.00	303
Larix laricina	2.00	306

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		96
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	80.00		Organics
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately Wet
Drainage	Very poor
Effective Texture	Fibric Organics

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	JULIE ELLIS SARAH RICHER	174

Feature ID	ELC-N-M2(421)	Congruent Features	M1(436)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1	Rain	
Start Date	5/11/2015 9:12:49 AM	Precipitation	1		
End Date	5/11/2015 9:55:16 AM	Cloud Cover	100.00		

Polygon Description 174

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 174

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinustro=pinuban
Sub Canopy	3 >2-6m	1 0% - 10%	Pinuban>Acerrub>betupap
Shrub	5 >0.5-1m	3 25 - 60%	Junicom
Groundcover	7 <0.2m	4 > 60%	Vaccang>lichen>moss>gaulpro>miancan
Floating & Submerged			

Stand Composition 174

	<10	10-24	25-50	>50
Size Class Analysis	R	A	O	R
Standing Snags	R	O	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban=pinustro>acerrub
Species Dominance 25-50	As above
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 174

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	Black Ash Mineral Deciduous Swamp
Inclusion Code	SWD2-1
Complex	
Complex Code	

Tree Tally 150

Notes

Dead 0.00

Location

Latitude:45.887255,Longitude:-80.576573,Altitude:195.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/11/2015 09:49:27 EDT



Species	Tally	ID
Na	0.00	309

Additional Notes

Adj. Wetlsnd, scattered boulders and rocks snake lizard hab



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	177

Feature ID	ELC-N-M1(147A)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	5/11/2015 9:23:06 AM	Precipitation	1		
End Date	5/11/2015 10:07:04 AM	Cloud Cover	100.00		

Polygon Description 177

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 177

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	THUOCCI>>BETALLE
Sub Canopy	3 >2-6m	3 25 - 60%	ABIBALS>THUOCCI>BETALLE
Shrub	4 >1-2m	3 25 - 60%	ABIBALS
Groundcover	5 >0.5-1m	3 25 - 60%	POAPALU>SPHAGNUM SP>THUOCCI>LONINVO>TRIBORE>CORCANA>DRYCRIS>GAUHUSP
Floating & Submerged			

Stand Composition 177

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		177
Community Age	Mature	
Ecosite	White Cedar Organic Coniferous swamp	
Ecosite Code	SWC3	
Vegetation Type	White Cedar Conifer Organic Coniferous Swamp	
Vegetation Type Code	SWC3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 153

Notes

Dead 3.00

Location

Latitude:45.886756,Longitude:-80.567407,Altitude:176.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/11/2015 09:37:50 EDT



Species	Tally	ID
Abies balsamea	8.00	312
Thuja occidentalis	3.00	315
Betula allegheniensis	1.00	318

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		99
Location	Latitude:45.886774,Longitude:-80.567405,Altitude:178.5,Speed:0.0051444443,Accuracy:2.7,Provider:gps,Time:05/11/2015 09:46:04 EDT	Notes	Slope taken facing northeast
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	4.00	Gley	0.00
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Moderately decompised Mesic -organic
Horizon 2	75.00	0.00	Strongly decomposed Mesic
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	MODERATELY WET (7)
Drainage	Very poor
Effective Texture	Organic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	ELLIS, RICHER	180

Feature ID	Elc-n-m2(15)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/11/2015 11:17:51 AM	Precipitation	1		
End Date	5/11/2015 1:51:38 PM	Cloud Cover	100.00		

Polygon Description 180

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Deciduous
Community	Forest

Stand Species 180

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Popugra=poputre>arcerub>abiebal
Sub Canopy	3 >2-6m	2 10 - 25%	Abiebal>acerrub>>querrub
Shrub	4 >1-2m	3 25 - 60%	Alunina>vibucas>pteraql>acerrub
Groundcover	7 <0.2m		Gaulpro>maincan>moss>>vaccang
Floating & Submerged			

Stand Composition 180

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	R	A	O	N
Deadfall / Logs	A	A	O	N

Species Dominance <10	Acerrub
Species Dominance 10-24	Populus sp
Species Dominance 25-50	Populus sp
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	180

Community Age	Mid-Age
Ecosite	Fresh-moist poplar-white birch mixed forest ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	Mineral black ash swamp
Inclusion Code	SWD2-1
Complex	
Complex Code	

Tree Tally	156

Notes	Many poputre but outside prism visibility	Location	Latitude:45.885341,Longitude:-80.577979,Altitude:198.0,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:05/11/2015 12:46:19 EDT
Dead	2.00		



Species	Tally	ID
Acerrub	7.00	321
Abiebal	1.00	324
Betupap	1.00	327
Snags	2.00	330

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	O1		102
Location	Latitude:45.885108,Longitude:-80.578282,Altitude:203.8,Speed:0.07202222,Accuracy:2.4,Provider:gps,Time:05/11/2015 11:19:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	6.00
Slope Aspect (deg)	6.00	Gley	
Slope Percent	10.00	Water Table	46.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Si
Horizon 2	9.00	1.00	SiL
Horizon 3		3.00	
Horizon 4			

% Surface Stone	1.00
Moisture Regime	6
Drainage	3
Effective Texture	Si

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	ELLIS RICHER	183

Feature ID	Elc-n-m2(343a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 1:53:08 PM	Precipitation	0		
End Date	5/11/2015 2:03:00 PM	Cloud Cover	100.00		

Polygon Description 183

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 183

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinuban > pinustro
Sub Canopy	3 >2-6m	2 10 - 25%	Acerrub
Shrub	5 >0.5-1m	3 25 - 60%	Junicom
Groundcover	7 <0.2m	3 25 - 60%	Lichen >vaccang >moss>Carex sp
Floating & Submerged			

Stand Composition 183

	<10	10-24	25-50	>50
Size Class Analysis	O	R	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Acerrub
Species Dominance 10-24	Pinuban
Species Dominance 25-50	Pinuban
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 183

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 159

Notes		Location	
		Latitude:45.882616,Longitude:-80.580306,Altitude:207.3,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/11/2015 01:59:41 EDT	
Dead	1.00		

Species	Tally	ID
Acerrub	4.00	333
Pinuban	1.00	336
Pinustro	1.00	339

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	186

Feature ID	ELC-N-M1(147B)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	5/11/2015 10:15:21 AM	Precipitation	0		
End Date	5/11/2015 11:45:10 AM	Cloud Cover	100.00		

Polygon Description 186

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Stream

Stand Species 186

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	ABIBALS>POPTREM>BETALLE>BETPAPY
Sub Canopy	3 >2-6m	3 25 - 60%	GRANITE>ACERUBR
Shrub	4 >1-2m		Corylus sp. >ABIBALS>ACERUBR>LONINVO
Groundcover	5 >0.5-1m	3 25 - 60%	Sphagnum sp> Carex sp.> MAICANA>RUBPUBE
Floating & Submerged			

Stand Composition 186

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		186
Community Age	Mid-Age	
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest	
Ecosite Code	FOM5	
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type	
Vegetation Type Code	FOM5-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 162

Notes

Location

Latitude:45.887171,Longitude:-80.569771,Altitude:202.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/11/2015 11:28:03 EDT



Dead 0.00

Species	Tally	ID
Abies balsamea	7.00	342
Populus tremuloides	2.00	345
Acer rubrum	1.00	348

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		105
Location	Latitude:45.887219,Longitude:-80.569867,Altitude:190.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/11/2015 10:58:40 EDT	Notes	Slope facing south east
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	30.00
Slope Aspect (deg)	3.00	Gley	
Slope Percent	0.00	Water Table	17.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	1.00	0.00	Organic
Horizon 2	5.00	0.00	Silt Loam SIL
Horizon 3	70.00	0.00	Sandy clay SC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately moist (4)
Drainage	Imperfect (5)
Effective Texture	Sandy clay

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	JULIE ELLIS, SARAH RICHER	189

Feature ID	ELC-N-M2(343b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 2:20:43 PM	Precipitation	1		
End Date	5/11/2015 2:59:47 PM	Cloud Cover	100.00		

Polygon Description 189

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Deciduous
Community	Forest

Stand Species 189

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Popugra >acerrub>tsujcan>fraxnig
Sub Canopy	3 >2-6m	1 0% - 10%	Acerrub > TSUJCAN >>FRAXNIG
Shrub	4 >1-2m	3 25 - 60%	Aluninc>vibucas
Groundcover	7 <0.2m	2 10 - 25%	Miancan >rubus sp>
Floating & Submerged			

Stand Composition 189

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	A	O	O	N
Deadfall / Logs	A	A	R	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Popugra
Species Dominance 25-50	Popugra
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	189

Community Age	
Ecosite	Fresh-moist poplar-white birch mixed forest ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	Black ash mineral deciduous swamp
Inclusion Code	SWD2-1
Complex	
Complex Code	

Tree Tally	165

Notes		Location	
		Latitude:45.883196,Longitude:-80.579988,Altitude:196.0,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:05/11/2015 02:57:39 EDT	
Dead	3.00		

Species	Tally	ID
Popugra	5.00	351
Acerrub	4.00	354
Tsujcan	1.00	357

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		108
Location	Latitude:45.88317,Longitude:-80.579952,Altitude:201.5,Speed:0.14404444,Accuracy:2.1,Provider:gps,Time:05/11/2015 02:28:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	12.00
Slope Aspect (deg)	9.00	Gley	
Slope Percent	6.00	Water Table	10.00
Slope Length (m)	8.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		L
Horizon 2	10.00		Si
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Imperfect 5
Effective Texture	Si

Additional Notes

Creek inside polygon, ash grows on banks. Very wet soil pit



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	192

Feature ID	ELC-N-M1(133)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/11/2015 12:01:45 PM	Precipitation	0		
End Date	5/11/2015 12:18:28 PM	Cloud Cover	100.00		

Polygon Description 192

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Coniferous
Community	Barren

Stand Species 192

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	PINSTRO
Sub Canopy	3 >2-6m	1 0% - 10%	PINSTRO
Shrub	4 >1-2m	1 0% - 10%	PINSTRO>QUERUBR>JUNCOMM
Groundcover	7 <0.2m	3 25 - 60%	Lichen sp> Poa sp.
Floating & Submerged			

Stand Composition 192

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		192
Community Age	Mature	
Ecosite	Acidic Open Rock Barren	
Ecosite Code	RBO3	
Vegetation Type	Dry Acidic Open Rock Barren	
Vegetation Type Code	RBO3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		111
Pit ID	1	

Location	Latitude:45.887864,Longitude:-80.571283,Altitude:197.4,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/11/2015 12:11:46 EDT	Notes	Soil pit not taken due to bedrock	
		Depth to: (cm)		
Slope Position	1 Crest	Mottles		
Slope Aspect (deg)	14.00	Gley		
Slope Percent	16.00	Water Table		
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Not applicable
Drainage	Not applicable
Effective Texture	Not applicable

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	195

Feature ID	ELC-N-M1(171)	Congruent Features	M1(146)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	5/11/2015 12:43:36 PM	Precipitation	0		
End Date	5/11/2015 2:03:36 PM	Cloud Cover	100.00		

Polygon Description 195

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Forest

Stand Species 195

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	PINSTRO> POPTREM
Sub Canopy	2 >6-25m	4 > 60%	ABIBALS>PICMARI>>BETPAPY
Shrub	3 >2-6m	2 10 - 25%	ABIBALS
Groundcover	5 >0.5-1m	2 10 - 25%	MAICANA>TRIBORE>SPHAGNUM SP.
Floating & Submerged			

Stand Composition 195

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	R
Standing Snags	R	R	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 195

Community Age	Mature
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type
Vegetation Type Code	FOM5-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 168

Notes

Location

Latitude:45.887896,Longitude:-80.571778,Altitude:181.7,Speed:0.07716667,Accuracy:1.75,Provider:gps,Time:05/11/2015 01:36:24 EDT

Dead 0.00

Species	Tally	ID
Acer rubrum	3.00	360
Betula papyrifera	3.00	363
Abies balsamea	3.00	366
Picea marina	2.00	369
Pinus strobus	1.00	372
Populus tremuloides	1.00	375

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		114
Location	Latitude:45.887925,Longitude:-80.571768,Altitude:182.3,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/11/2015 01:39:22 EDT	Notes	Slope measurements taken southwest
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	8.00	Gley	
Slope Percent	12.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	1.00	2.00	Organic
Horizon 2	20.00		Fine sand fS
Horizon 3	50.00	8.00	Loamy fine sand LfS
Horizon 4	70.00	0.00	Silty very fine sand SIvfS

% Surface Stone	0.00
Moisture Regime	Moderately fresh (7)
Drainage	Well (3)
Effective Texture	Silty very fine sand SIvfS

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	ELLIS RICHER	198

Feature ID	Elc-n-m2(343c)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/11/2015 3:08:14 PM	Precipitation	0		
End Date	5/11/2015 3:49:29 PM	Cloud Cover	100.00		

Polygon Description 201

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Forest

Stand Species 201

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinustro > abiebal > tsujcan >>betupap
Sub Canopy	3 >2-6m	1 0% - 10%	Pinustro > abiebal
Shrub	4 >1-2m	2 10 - 25%	Aluninc >abiebal > pteraql > vibucas
Groundcover	7 <0.2m	2 10 - 25%	Gaulpro > club moss >miancan> corncan
Floating & Submerged			

Stand Composition 201

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	R
Standing Snags	R	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinustro
Species Dominance 10-24	Pinustro abiebal
Species Dominance 25-50	As above
Species Dominance >50	Pinustro

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	204

Community Age	
Ecosite	Dry-Fresh Pine Coniferous Forest
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	174

Notes		Location	
		Latitude:45.883854,Longitude:-80.580195,Altitude:193.4,Speed:0.33438888,Accuracy:1.8,Provider:gps,Time:05/11/2015 03:40:36 EDT	
Dead	0.00		

Species	Tally	ID
Pinus strobus	3.00	399
Abies balsamia	5.00	402
Betula papyrifera	1.00	405

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		117
Location	Latitude:45.883545,Longitude:-80.580205,Altitude:196.2,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:05/11/2015 03:09:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	7.00	Gley	
Slope Percent	5.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	3.00	L
Horizon 2	20.00	30.00	Loamy fine sand
Horizon 3	40.00	0.00	SiL
Horizon 4		0.00	

% Surface Stone	7.00
Moisture Regime	2 Fresh
Drainage	3
Effective Texture	SiL

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	201

Feature ID	ELC-N-M1(170)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	5/11/2015 2:25:32 PM	Precipitation	0		
End Date	5/11/2015 3:21:00 PM	Cloud Cover	100.00		

Polygon Description 198

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 198

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	THUOCCI> PICMARI>FRANIGR>BETPAPY
Sub Canopy	3 >2-6m	3 25 - 60%	PICMARI>THUOCCI>ACERUBR
Shrub	5 >0.5-1m	2 10 - 25%	ACERUBR>>LONINVO>ABIBALS
Groundcover	6 >0.2-0.5m	3 25 - 60%	POA sp. >MAICANA=DRYCRIS>CALPALU
Floating & Submerged			

Stand Composition 198

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	R
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	198

Community Age	
Ecosite	White cedar mineral mixed swamp
Ecosite Code	SWM1
Vegetation Type	White Cedar Hardwood Mineral Mixed Swamp
Vegetation Type Code	SWM1-1
Inclusion	Black ash mineral deciduous swamp
Inclusion Code	SWD2-1
Complex	
Complex Code	

Tree Tally	171

Notes		Location	
		Latitude:45.888001,Longitude:-80.572719,Altitude:190.5,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/11/2015 02:48:44 EDT	
Dead	1.00		

Species	Tally	ID
Thuja occidentalis	7.00	378
Picea marina	1.00	381
Acer rubrum	1.00	384
Betula papyrifera	1.00	387
Tsuga canadensis	1.00	390
Populus tremuloides	2.00	393
Fraxinus nigra	1.00	396

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		120
Location	Latitude:45.888047,Longitude:-80.572788,Altitude:190.9,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:05/11/2015 03:00:25 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	23.00
Slope Aspect (deg)	2.00	Gley	30.00
Slope Percent	0.00	Water Table	55.00
Slope Length (m)	8.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	1.00	2.00	Organic
Horizon 2	7.00		Silty very fine sand SIvfS
Horizon 3	55.00	0.00	vfSL
Horizon 4			vfSC

% Surface Stone	0.00
Moisture Regime	Moist to very moist
Drainage	Poor (6)
Effective Texture	vfSL

Additional Notes

Polygon follows a running creek.

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATSLIYA SIMONOVA	204

Feature ID	ELC-N-M1(134)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/11/2015 3:37:51 PM	Precipitation	0		
End Date	5/11/2015 3:49:47 PM	Cloud Cover	100.00		

Polygon Description 204

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Coniferous
Community	Barren

Stand Species 204

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	PINSTRO>PINRESI >>POPTREM
Sub Canopy	3 >2-6m	2 10 - 25%	PINSTRO>ABIBALS>ACERUBR
Shrub	5 >0.5-1m	2 10 - 25%	PINSTROB>VACCINIUM SP
Groundcover	7 <0.2m	3 25 - 60%	POA sp. > Lichen sp
Floating & Submerged			

Stand Composition 204

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	R
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification

201

Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

123

Location	Latitude:45.887771,Longitude:-80.573718,Altitude:191.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/11/2015 03:49:47 EDT	Notes	No soil pit taken due to bedrock
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	
Slope Aspect (deg)	2.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			
Horizon 2			
Horizon 3		2.00	
Horizon 4			

% Surface Stone	100.00
Moisture Regime	N/a
Drainage	N/A
Effective Texture	N/A

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M01	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	207

Feature ID	ELC-N-M1(106)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/11/2015 4:04:28 PM	Precipitation	0		
End Date	5/11/2015 4:40:22 PM	Cloud Cover	100.00		

Polygon Description 207

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Forest

Stand Species 207

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	BETPAPY>BETALLE>ACERUBR> THUJAOCCI
Sub Canopy	3 >2-6m	2 10 - 25%	ABIBALS=BETPAPY
Shrub	4 >1-2m	3 25 - 60%	ACERUBR>CORYLUS SP.
Groundcover	6 >0.2-0.5m	2 10 - 25%	MAICANA>CLIBORE>GIMDRYI
Floating & Submerged			

Stand Composition 207

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	210

Community Age	Mature
Ecosite	Fresh Moist Poplar White Birch Mixed Forest
Ecosite Code	FOM8
Vegetation Type	Fresh moist white birch forest
Vegetation Type Code	FOM8-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	177

Notes		Location	
		Latitude:45.887994,Longitude:-80.574795,Altitude:181.4,Speed:0.24693333,Accuracy:1.8,Provider:gps,Time:05/11/2015 04:21:41 EDT	
Dead	2.00		

Species	Tally	ID
Betula papyrifera	4.00	408
Betula allegheniensis	2.00	411
Acer rubrum	1.00	414
Pinus strobus	1.00	417
Thuja occidentalis	1.00	420

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		126
Location	Latitude:45.887988,Longitude:-80.5748,Altitude:182.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/11/2015 04:25:22 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	
Slope Aspect (deg)	18.00	Gley	
Slope Percent	38.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	45.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Organics
Horizon 2	9.00	0.00	Loamy fine sand
Horizon 3	45.00	0.00	Silty fine sand
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately fresh
Drainage	Well (3)
Effective Texture	Silty fine sand

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M2	Field Crew	ELLIS RICHER	210

Feature ID	ELC-N-M2(343)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/11/2015 3:53:34 PM	Precipitation	1		
End Date	5/11/2015 3:58:34 PM	Cloud Cover	100.00		

Polygon Description 210

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 210

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinuban >pinuban
Sub Canopy	3 >2-6m	1 0% - 10%	Pinuban
Shrub	5 >0.5-1m	2 10 - 25%	Junicom
Groundcover	6 >0.2-0.5m	2 10 - 25%	Lichen>Moss>vaccang
Floating & Submerged			

Stand Composition 210

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	207

Community Age	
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

ELC - WEC

Map Number	N-M4	Field Crew	JASON NORONHA..JAMES KAMSTRA	213

Feature ID	ELC-N-M4(122)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	5/11/2015 9:26:46 AM	Precipitation	1		
End Date	5/11/2015 10:33:42 AM	Cloud Cover	100.00		

Polygon Description 213

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Deciduous
Community	Forest

Stand Species 225

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populous grandidentata < acer rubrus < Betula papyifera
Sub Canopy	2 >6-25m	3 25 - 60%	Populous grandidentata <Betula papyifera <acer rubrum
Shrub	3 >2-6m	4 > 60%	Corylus cornuta
Groundcover	4 >1-2m	3 25 - 60%	Clinton borealis <trilingual grandiflorum< mainthemum canadensis
Floating & Submerged		0 None	

Stand Composition 225

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	R	

Species Dominance <10	Betula papyifera
Species Dominance 10-24	Populous grandidentata
Species Dominance 25-50	Populous grandidentata
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 225

Community Age	Mid-Age
Ecosite	Dry -fresh poplar -white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry - Fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 192

Notes

Dead 2.00

Location

Latitude:45.874252,Longitude:-80.584649,Altitude:193.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/11/2015 10:26:07 EDT



Species	Tally	ID
Acer rubrum	5.00	435
Sugar maple	1.00	438
Populous grandidentata	6.00	441
Pinus strobus	1.00	444
Betula papyifera	1.00	447

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		132
Location	Latitude:45.874279,Longitude:-80.584611,Altitude:192.8,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/11/2015 10:16:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	60.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	1.00	Water Table	80.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Very fine siltysand
Horizon 2	60.00	0.00	Vfs
Horizon 3	120.00	0.00	Medium sand
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	Vfs

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M4	Field Crew	JASON NORONHA JAMES KAMSTRA	216

Feature ID	ELC-N-M4(114)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	5/11/2015 10:43:57 AM	Precipitation	1		
End Date	5/11/2015 1:30:20 PM	Cloud Cover	100.00		

Polygon Description 216

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous,Mixed
Community	Swamp

Stand Species 213

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana < pinus strobus <Betula papyifera
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana <pinus strobus < abies balsamea
Shrub	3 >2-6m	3 25 - 60%	Abies balsamea <picea mariana < pinus strobus
Groundcover	6 >0.2-0.5m	3 25 - 60%	Sphagnum spp <Lycopodium annontinum<coptis trifolia
Floating & Submerged			

Stand Composition 213

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana < pinus strobus < abies balsa
Species Dominance 10-24	Picea mariana < abies balsamea < pinus stro
Species Dominance 25-50	Picea mariana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	213

Community Age	Mid-Age
Ecosite	Birch-Poplar Mineral Mixed Swamp Ecosite
Ecosite Code	SWM3
Vegetation Type	Birch-Conifer Mineral Mixed Swamp Type
Vegetation Type Code	SWM3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	180

Notes		Location	
		Latitude:45.873891,Longitude:-80.589026,Altitude:199.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/11/2015 12:53:32 EDT	
Dead			

Species	Tally	ID
No trees		423

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		129
Location	Latitude:45.873858,Longitude:-80.58891,Altitude:196.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/11/2015 12:44:37 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	30.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00		Of
Horizon 2	30.00	0.00	Oh
Horizon 3	80.00	0.00	Sic
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Sic

Additional Notes

Picea mariana dominant does not fit

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M4	Field Crew	JASON NORONHA JAMES KAMSTRA	219

Feature ID	ELC-N-M4(423)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	5/11/2015 11:44:47 AM	Precipitation	0		
End Date	5/11/2015 11:58:31 AM	Cloud Cover	100.00		

Polygon Description 219

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 216

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus strobus < pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana <pinus strobus
Shrub	3 >2-6m		Juniperus communis<pinus banksiana < larix laricina<abies balsamea
Groundcover		3 25 - 60%	Cladina spp <vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 216

	<10	10-24	25-50	>50
Size Class Analysis	R	R	R	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana < abies balsamea
Species Dominance 10-24	Quercus rubra<pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	216

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	183

Notes		Location	Latitude:45.873864,Longitude:-80.587599,Altitude:205.9,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/11/2015 11:58:44 EDT
Dead			



Species	Tally	ID
Na		426

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M4	Field Crew	JASON NORONHA JAMES KAMSTRA	222

Feature ID	ELC-N-M4(107)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	5/11/2015 1:32:30 PM	Precipitation	0		
End Date	5/11/2015 1:50:22 PM	Cloud Cover	100.00		

Polygon Description 222

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 219

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana < pinus strobus
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana < picea mariana < acer rubrum
Shrub	3 >2-6m	2 10 - 25%	Corylus cornuta <juniperus communis < pinus banksiana
Groundcover	5 >0.5-1m	3 25 - 60%	Cladina spp < vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 219

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana < acer rubrum
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	219

Community Age	
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	186

Notes		Location	
		Latitude:45.873238,Longitude:-80.59225,Altitude:199.7,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/11/2015 01:48:39 EDT	
Dead			

Species	Tally	ID
None		429

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	JASON NORONHA JAMES KAMSTRA	225

Feature ID	ELC-N-M5(135)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	5/11/2015 2:23:37 PM	Precipitation	0		
End Date	5/11/2015 3:21:52 PM	Cloud Cover	100.00		

Polygon Description 225

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Swamp

Stand Species 222

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus < picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana < Betula papyifera
Shrub	3 >2-6m	2 10 - 25%	Alnus incana<viburnum cassinoides
Groundcover	5 >0.5-1m	2 10 - 25%	Coptis trifolia <kalmia angustifolia
Floating & Submerged			

Stand Composition 222

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana < pinus strobus
Species Dominance 10-24	Betula papyifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 222

Community Age	
Ecosite	White Pine-Hemlock Mineral Coniferous Swamp Ecosit
Ecosite Code	SWC2
Vegetation Type	White Pine Mineral Coniferous Swamp Type
Vegetation Type Code	SWC2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 189

Notes

Dead 0.00

Location

Latitude:45.872955,Longitude:-80.593377,Altitude:194.0,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/11/2015 02:42:06 EDT



Species	Tally	ID
Betula papyifera	1.00	432

Additional Notes

Picea mariana dominant

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	246

Feature ID	ELC-N-M7(427)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/12/2015 10:16:44 AM	Precipitation	0		
End Date	5/12/2015 10:39:01 AM	Cloud Cover	100.00		

Polygon Description 246

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 246

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	2 10 - 25%	Cladonia rangiferina
Floating & Submerged		0 None	

Stand Composition 246

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	246

Community Age	
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	213

Notes		Location	
		Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	
Dead	1.00		

Species	Tally	ID
Pinus banksiana	1.00	480

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		147
Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	90.00
Moisture Regime	Dry
Drainage	Very Rapid
Effective Texture	Bedrock

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	249

Feature ID	ELC-N-M7(2)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/12/2015 10:57:28 AM	Precipitation	0		
End Date	5/12/2015 11:19:45 AM	Cloud Cover	100.00		

Polygon Description 249

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Deciduous
Community	Fen

Stand Species 249

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Betula papyrifera
Shrub	5 >0.5-1m	4 > 60%	Alnus incana > Chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 249

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		249
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb Shrub Fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		150
Pit ID	1	

Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles	0.00	
Slope Aspect (deg)	0.00	Gley	0.00	
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	0.00	Carbonates		
		Bedrock	60.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Oh
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately Wet
Drainage	Very poor
Effective Texture	Oh

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	252

Feature ID	ELC-N-M7(141)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/12/2015 11:44:01 AM	Precipitation	0		
End Date	5/12/2015 12:14:56 PM	Cloud Cover	100.00		

Polygon Description 252

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Bog

Stand Species 252

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Kalmia angustifolia > Alnus incana
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 252

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	252

Community Age	Mid-Age
Ecosite	Deciduous shrub Bog Ecosite
Ecosite Code	BOS1
Vegetation Type	Leatherleaf Shrub Bog
Vegetation Type Code	BOS1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	216

Notes		Location	
Dead			

Species	Tally	ID
Pinus banksiana	0.00	483

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		153
Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	Of
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	3.00
Moisture Regime	Moderately Wet
Drainage	Very poor
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	255

Feature ID	ELC-N-M7(339)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	6		
Start Date	5/12/2015 12:59:42 PM	Precipitation	0		
End Date	5/12/2015 1:17:26 PM	Cloud Cover	100.00		

Polygon Description 255

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 255

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	2 10 - 25%	Cladonia rangiferina= Vaccinium angustifolia
Floating & Submerged		0 None	

Stand Composition 255

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	255

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	219

Notes		Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT
Dead			



Species	Tally	ID
Pinus banksiana	1.00	486

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		156
Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	90.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M7	Field Crew	TOM SHORNEY, CASEY O'DRISCOLL	258

Feature ID	ELC-N-M7(3)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	6		
Start Date	5/12/2015 1:25:47 PM	Precipitation	0		
End Date	5/12/2015 2:00:19 PM	Cloud Cover	100.00		

Polygon Description 258

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Fen

Stand Species 258

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Shrub	5 >0.5-1m	4 > 60%	Alnus incana > Chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 258

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 258

Community Age	Mid-Age
Ecosite	Alder Organic Deciduous Thicket Swamp Ecosite
Ecosite Code	SWT3
Vegetation Type	Speckled Alder Organic Deciduous Thicket Swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 222

Notes

Dead

Location

Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT



Species	Tally	ID
Larix laricina	0.00	489

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		159
Location	Latitude:46.1023761,Longitude:-80.5866167,Altitude:0.0,Speed:0.0,Accuracy:58.0,Provider:network,Time:05/12/2015 06:09:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	95.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	95.00	0.00	Of
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately Wet
Drainage	Very Poor
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	261

Feature ID	ELC-N-M12(429)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/12/2015 9:19:44 AM	Precipitation	0		
End Date	5/12/2015 9:34:07 AM	Cloud Cover	100.00		

Polygon Description 261

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 261

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus Banksiana
Sub Canopy	3 >2-6m		Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniper communis> Pinus banksiana > Viccinium angustifolia
Groundcover	7 <0.2m	3 25 - 60%	Cladonia sp.>Carex sp. 1
Floating & Submerged			

Stand Composition 261

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		261
Community Age	Mature	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC - WEC

Map Number	N-M12	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	264

Feature ID	ELC-N-M12(12)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/12/2015 9:40:46 AM	Precipitation	0		
End Date	5/12/2015 10:08:09 AM	Cloud Cover	100.00		

Polygon Description 264

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 264

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea marina >> Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Picea marina
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Kalmia polifolia > Vaccinium oxycoccos
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged			

Stand Composition 264

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 264

Community Age	Mature
Ecosite	Tamarack Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 225

Notes

Dead 0.00

Location

Latitude:45.870421,Longitude:-80.625071,Altitude:193.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/12/2015 09:58:05 EDT



Species	Tally	ID
Pinus banksiana	2.00	492
Picea marina	2.00	495

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		162
Location	Latitude:45.870386,Longitude:-80.625101,Altitude:189.3,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/12/2015 10:05:39 EDT	Notes	Swamp at depression between rock barrens
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	80.00	0.00	Organic
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Saturated
Drainage	Poor
Effective Texture	Organic

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA NATALIYA	267

Feature ID	ELC-N-M12(63)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/12/2015 11:59:58 AM	Precipitation	0		
End Date	5/12/2015 2:12:42 PM	Cloud Cover	100.00		

Polygon Description 267

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 267

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Fraxinus nigra> Populus tremuloides >>Pinus strobus
Sub Canopy	2 >6-25m	2 10 - 25%	Fraxinus nigra > Thuja occidentalis
Shrub	3 >2-6m	3 25 - 60%	Acer rubrum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Trillium erectum> Maianthemum canadense> Dryopteris Sp.
Floating & Submerged			

Stand Composition 267

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	N	O	R	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 267

Community Age	Mature
Ecosite	Ash Mineral Deciduous Swamp
Ecosite Code	SWD2
Vegetation Type	Black Ash Mineral Deciduous Swamp
Vegetation Type Code	SWD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 228

Notes

Location

Latitude:45.868228,Longitude:-80.617243,Altitude:170.6,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/12/2015 01:51:54 EDT



Dead 0.00

Species	Tally	ID
Fraxinus nigra	10.00	498
Abies balsamea	1.00	501
Populus tremuloides	1.00	504

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		165
Location	Latitude:45.868244,Longitude:-80.61725,Altitude:171.9,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/12/2015 01:56:27 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	70.00
Slope Aspect (deg)	5.00	Gley	
Slope Percent	0.00	Water Table	25.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	13.00	Organic
Horizon 2	45.00	10.00	Loamy fine sand
Horizon 3	85.00	0.00	Silty clay
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very fresh (3)
Drainage	Imperfect (5)
Effective Texture	Silty clay

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA NATALIYA	270

Feature ID	ELC-N-M12(112)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/12/2015 12:23:53 PM	Precipitation	0		
End Date	5/12/2015 12:42:36 PM	Cloud Cover	100.00		

Polygon Description 270

System	Wetland
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 270

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea marina > Larix laricina >> Pinus strobus
Sub Canopy	3 >2-6m	3 25 - 60%	Picea marina > Larix laricina
Shrub	4 >1-2m	2 10 - 25%	Viccinium membranaceum > Chamaedaphne calyculata > Kalmia polifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged			

Stand Composition 270

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	270

Community Age	Mature
Ecosite	Tamarack Black Spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	231

Notes	Black spruce 1Tamara 1111White pin 1	Location	Latitude:45.868951,Longitude:-80.614891,Altitude:192.0,Speed:0.0,Accuracy:1.75,Provider:gps,Time:05/12/2015 12:37:37 EDT
Dead	0.00		



Species	Tally	ID
Picea marina	1.00	507
Larix laricina	4.00	510
Pinus strobus	1.00	513

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		168
Location	Latitude:45.868951,Longitude:-80.614887,Altitude:191.9,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/12/2015 12:38:41 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	2.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00		Organic
Horizon 2			
Horizon 3		2.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Saturated
Drainage	Poor
Effective Texture	Bedrock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA NATALIYA	273

Feature ID	ELC-N-M12(369)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/12/2015 1:06:51 PM	Precipitation	0		
End Date	5/12/2015 1:34:06 PM	Cloud Cover	100.00		

Polygon Description 273

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 273

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >Picea mariana >Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana >Pinus strobus
Shrub	6 >0.2-0.5m	4 > 60%	Juniperus communis >Vaccinium marianum >Betula papyrifera
Groundcover	7 <0.2m	4 > 60%	Cladonia sp>Vaccinium angustifolia >Carex sp
Floating & Submerged		0 None	

Stand Composition 273

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		273
Community Age	Mature	
Ecosite	Acidic Treed Rock Barren	
Ecosite Code	RBT3	
Vegetation Type	Jack Pine Acidic Treed Rock Barren	
Vegetation Type Code	RBT3 -2	
Inclusion	Open fen (see marked field map for notes)	
Inclusion Code	FEO	
Complex	Leatherleaf shrub bog	
Complex Code	BOS1-1	

Soil Description				
Pit ID	1			171
Location	Latitude:45.868617,Longitude:-80.616413,Altitude:198.0,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/12/2015 01:31:30 EDT	Notes		
		Depth to: (cm)		
Slope Position	1 Crest	Mottles		
Slope Aspect (deg)	10.00	Gley		
Slope Percent	1.00	Water Table		
Slope Length (m)	10.00	Carbonates		
		Bedrock	0.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	100.00
Moisture Regime	N/A
Drainage	N/A
Effective Texture	N/A

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	276

Feature ID	ELC-N-M12(142)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/12/2015 2:54:14 PM	Precipitation	0		
End Date	5/12/2015 3:18:53 PM	Cloud Cover	100.00		

Polygon Description 276

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 276

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	4 >1-2m	3 25 - 60%	Spiraea alba>chamaedaphne calyculata > Typha sp. > viccinium sp.
Groundcover	5 >0.5-1m	4 > 60%	Carex sp. > Sphagnum sp.
Floating & Submerged			

Stand Composition 276

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		276
Community Age	Mature	
Ecosite	Organic meadow marsh ecosite	
Ecosite Code	MAM3	
Vegetation Type	Broad-leaved sedge organic meadow marsh	
Vegetation Type Code	MAM3-6	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	174

Location	Latitude:45.870763,Longitude:-80.617504,Altitude:179.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/12/2015 03:06:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	3.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00		Organic
Horizon 2			
Horizon 3		3.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Saturated
Drainage	Poor
Effective Texture	Bedrock

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA NATALIYA	279

Feature ID	ELC-N-M12(143)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/12/2015 2:54:22 PM	Precipitation	0		
End Date	5/12/2015 3:34:34 PM	Cloud Cover	100.00		

Polygon Description 279

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 279

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	4 >1-2m	3 25 - 60%	Spiraea alba>chamaedaphne calyculata > Typha sp. > viccinium sp.
Groundcover	5 >0.5-1m	4 > 60%	Carex sp. > Sphagnum sp.
Floating & Submerged			

Stand Composition 279

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification			279
Community Age	Mature		
Ecosite	Organic meadow marsh ecosite		
Ecosite Code	MAM3		
Vegetation Type	Broad-leaved sedge organic meadow marsh		
Vegetation Type Code	MAM3-6		
Inclusion			
Inclusion Code			
Complex			
Complex Code			

Soil Description				177
Pit ID	1			
Location	Latitude:45.870767,Longitude:-80.61753,Altitude:180.4,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/12/2015 03:09:29 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	2.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00		Organic
Horizon 2			
Horizon 3		2.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Saturated
Drainage	Poor
Effective Texture	Bedrock

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	JULIE ELLIS JASON NORONHA	282

Feature ID	Elc-n-m5(144)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/12/2015 9:45:17 AM	Precipitation	0		
End Date	5/12/2015 10:55:17 AM	Cloud Cover	100.00		

Polygon Description 303

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Coniferous,Mixed
Community	Forest

Stand Species 303

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picemar > pinustro >> betupap > acerrub
Sub Canopy	3 >2-6m	3 25 - 60%	Picemar > pinustro =abiebal > acerrub
Shrub			Picemar > pinustro >> betupap > acerrub
Groundcover	4 >1-2m	2 10 - 25%	Abiebal >> gaylbac
Floating & Submerged			

Stand Composition 303

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Abiebal
Species Dominance 10-24	Picemar
Species Dominance 25-50	Thujocc
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		303
Community Age	Mid-Age	
Ecosite	Maple Mineral Mixed Swamp Ecosite	
Ecosite Code	SWM2	
Vegetation Type	Red Maple Mineral Mixed Swamp Type	
Vegetation Type Code	SWM2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		246
Notes		Location
		Latitude:45.871575,Longitude:-80.596273,Altitude:205.0,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/12/2015 10:34:54 EDT
Dead	0.00	



Species	Tally	ID
Picemar	2.00	549
Thujocc	1.00	552
Betupap	1.00	555
Acerrub	1.00	558
Pinustro	1.00	561

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		180
Location	Latitude:45.871618,Longitude:-80.596058,Altitude:193.7,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:05/12/2015 10:16:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	25.00
Slope Aspect (deg)	1.00	Gley	
Slope Percent	1.00	Water Table	25.00
Slope Length (m)	6.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	3.00		Organics leaf litter
Horizon 2	10.00	0.00	SL fine sand
Horizon 3	120.00	1.00	LS fine sand
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5 moist
Drainage	Imperfect 5
Effective Texture	LS fine sand

Additional Notes

Swc4 a poor fit, foc dominated by black spruce No appropriate southern elc codes No tamarack Mineral soils present wet and Sandy soils Some standing water present



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS, NORONHA	285

Feature ID	Elc-n-m5(109)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/12/2015 11:04:47 AM	Precipitation	0		
End Date	5/12/2015 11:32:13 AM	Cloud Cover	100.00		

Polygon Description 282

System	Terrestrial
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 282

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	picemar
Sub Canopy	3 >2-6m	1 0% - 10%	Aluninc >> picemar
Shrub	4 >1-2m	4 > 60%	Aluninc
Groundcover	7 <0.2m		Sphagnum
Floating & Submerged			

Stand Composition 282

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Betupap
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		282
Community Age	Young	
Ecosite	Alder Organic Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT3	
Vegetation Type	Speckled Alder Organic Deciduous Thicket Swamp	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	183

Location	Latitude:45.87163,Longitude:-80.597743,Altitude:193.0,Speed:0.16976666,Accuracy:2.4,Provider:gps,Time:05/12/2015 11:12:18 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	11.00		Of
Horizon 2	20.00		Om
Horizon 3	35.00	0.00	Oh
Horizon 4	70.00	5.00	Lfs

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	Lfs

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS, NORONHA	288

Feature ID	Elc-n-m5(13)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	5/12/2015 11:56:41 AM	Precipitation	0		
End Date	5/12/2015 12:05:50 PM	Cloud Cover	100.00		

Polygon Description 285

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 285

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinuban >pinustro
Sub Canopy	3 >2-6m	2 10 - 25%	Pinuban >>acerrub
Shrub	4 >1-2m	2 10 - 25%	Junicom
Groundcover	7 <0.2m	1 0% - 10%	Vaccang > lichen>desccec>mosses
Floating & Submerged			

Stand Composition 285

	<10	10-24	25-50	>50
Size Class Analysis	O	R	R	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	O	R	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban
Species Dominance 25-50	Pinustro
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		285
Community Age	Mature	
Ecosite	Acidic Open Rock Barren	
Ecosite Code	RBO3	
Vegetation Type	Dry Acidic Open Rock Barren	
Vegetation Type Code	RBO3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS , NORONHA	291

Feature ID	Elc-n-m5(217)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/12/2015 12:16:51 PM	Precipitation	0		
End Date	5/12/2015 12:45:21 PM	Cloud Cover	100.00		

Polygon Description 288

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Forest

Stand Species 288

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picemar >>pinustro > abiebal >betupap
Sub Canopy	3 >2-6m	2 10 - 25%	Picemar >abiebal
Shrub	4 >1-2m	1 0% - 10%	Abiebal > picemar
Groundcover	7 <0.2m	1 0% - 10%	Abiebal > club moss
Floating & Submerged			

Stand Composition 288

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Abiebal
Species Dominance 10-24	Abiebal
Species Dominance 25-50	Pinuban
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	288

Community Age	
Ecosite	Dry-Fresh Pine Coniferous Forest Ecosite
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	234

Notes		Location	
		Latitude:45.870835,Longitude:-80.598955,Altitude:198.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/12/2015 12:31:25 EDT	
Dead	1.00		

Species	Tally	ID
Pinuban	1.00	516
Picemar	2.00	519

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		186
Location	Latitude:45.870866,Longitude:-80.598954,Altitude:200.8,Speed:0.07202222,Accuracy:2.0,Provider:gps,Time:05/12/2015 12:19:54 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	2.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Organics leaf litter
Horizon 2	20.00	0.00	LvfS
Horizon 3	40.00	5.00	LvfS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Dry
Drainage	Very rapid 1
Effective Texture	LvfS

Additional Notes

Poor match to Swc4 but no other feasible options in southern codes, foc dominated by black spruce Mineral soilNo tamarack No standing water Wet because in depression down slope of rbt3 -2



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS, NORONHA	294

Feature ID	Elc-n-m5(145)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	5/12/2015 1:00:23 PM	Precipitation	0		
End Date	5/12/2015 2:09:26 PM	Cloud Cover	100.00		

Polygon Description 291

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 291

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picemar>thujocc >>pinustro
Sub Canopy	3 >2-6m	2 10 - 25%	Picemar > thujocc
Shrub	4 >1-2m	2 10 - 25%	Picemar
Groundcover	7 <0.2m	4 > 60%	Sphagnum > >copttri
Floating & Submerged			

Stand Composition 291

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	A	O	R	N
Deadfall / Logs	A	A	N	N

Species Dominance <10	Picemar
Species Dominance 10-24	Thujocc
Species Dominance 25-50	Pinustro
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 291

Community Age	Mature
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 237

Notes

Dead 1.00

Location

Latitude:45.870579,Longitude:-80.600627,Altitude:194.0,Speed:0.12861112,Accuracy:1.8,Provider:gps,Time:05/12/2015 01:55:55 EDT



Species	Tally	ID
Picemar	3.00	522
Thujocc	3.00	525

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		189
Location	Latitude:45.870615,Longitude:-80.600683,Altitude:193.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/12/2015 02:00:54 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	51.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	5.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	9.00	0.00	Oh
Horizon 2	110.00	4.00	mS
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	4 very moist
Drainage	7 very poor
Effective Texture	mS

Additional Notes

Better fit than other Swc4Hummocks with standing water and sphagnum



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS , NORONHA	297

Feature ID	Elc-n-m5(218)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/12/2015 1:18:27 PM	Precipitation	0		
End Date	5/12/2015 1:40:27 PM	Cloud Cover	100.00		

Polygon Description 294

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Deciduous,Coniferous
Community	Forest

Stand Species 294

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Picemar >abiebal > pinustro >> betupap
Sub Canopy	3 >2-6m	2 10 - 25%	Picemar > pinustro
Shrub	4 >1-2m	2 10 - 25%	Abiebal >pteraql >vibucas
Groundcover	7 <0.2m	2 10 - 25%	Mosses> corncan =miancan
Floating & Submerged			

Stand Composition 294

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	O	R	N

Species Dominance <10	Abiebal
Species Dominance 10-24	Picemar
Species Dominance 25-50	Betupap
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 294

Community Age	
Ecosite	Dry-Fresh Pine Coniferous Forest Ecosite
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 240

Notes

Location

Latitude:45.870545,Longitude:-80.600303,Altitude:187.8,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:05/12/2015 01:27:42 EDT

Dead 0.00

Species	Tally	ID
Picemar	3.00	528
Popugra	2.00	531
Thujocc	1.00	534

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		192
Location	Latitude:45.870555,Longitude:-80.600301,Altitude:188.3,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:05/12/2015 01:19:06 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	4.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	8.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	fS
Horizon 2	90.00	0.00	LvfS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	2 Rapid
Effective Texture	fS

Additional Notes

Very poor fit fir swc but no other options in southern elc. Foc dominated by black spruce.Drier mineral soilsGround flora indicates dry conditions No tamarack



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS , NORONHA	300

Feature ID	Elc-n-m5(426)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	5		
Start Date	5/12/2015 2:36:24 PM	Precipitation	0		
End Date	5/12/2015 2:43:18 PM	Cloud Cover	100.00		

Polygon Description 297

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 297

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinuban
Sub Canopy	3 >2-6m	1 0% - 10%	Pinuban > pinustro
Shrub	4 >1-2m	2 10 - 25%	Junicom >> acerrub
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen > vaccang > moss > desccec
Floating & Submerged			

Stand Composition 297

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban
Species Dominance 25-50	Pinuban
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification

297

Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M5	Field Crew	ELLIS, NORONHA	303

Feature ID	Elc-n-m5(426a)	Congruent Features	M5(14)		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	5/12/2015 3:00:24 PM	Precipitation	0		
End Date	5/12/2015 3:19:55 PM	Cloud Cover	100.00		

Polygon Description 300

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 300

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picemar > pinustro > abiesbal > betupap
Sub Canopy	3 >2-6m	2 10 - 25%	Picemar > abiebal > acerrub
Shrub	4 >1-2m	2 10 - 25%	Abiebal > vibucas > betupap
Groundcover	6 >0.2-0.5m	2 10 - 25%	Abiebal = gaulpro = mian> corncan
Floating & Submerged			

Stand Composition 300

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abiebal
Species Dominance 10-24	Picemar
Species Dominance 25-50	Pinustro betupap
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	300

Community Age	
Ecosite	Dry-fresh white birch-poplar-conifer mixed forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh White Birch Mixed Forest Type
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	243

Notes		Location	
		Latitude:45.870858,Longitude:-80.602876,Altitude:186.0,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:05/12/2015 03:03:45 EDT	
Dead	0.00		

Species	Tally	ID
Betupap	3.00	537
Acerrub	1.00	540
Abiebal	2.00	543
Pinustro	1.00	546

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		195
Location	Latitude:45.870848,Longitude:-80.60285,Altitude:186.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/12/2015 03:01:04 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	vfS
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2 fresh
Drainage	1 very rapid
Effective Texture	vfS

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN & CASEY O'DRISCOLL	306

Feature ID	ELC-N-M26(212)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	6		
Start Date	5/19/2015 2:49:00 PM	Precipitation	0		
End Date	5/19/2015 3:26:37 PM	Cloud Cover	100.00		

Polygon Description 306

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 306

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > Pinus strobus = Pinus banksiana
Sub Canopy	2 >6-25m	4 > 60%	Picea mariana>Pinus strobus = Pinus banksiana
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	2 10 - 25%	Reindeer lichen
Floating & Submerged		0 None	

Stand Composition 306

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Viburnum cassinoides
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	Picea mariana = Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 306

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	Treed Rock Barren
Complex Code	RBT3

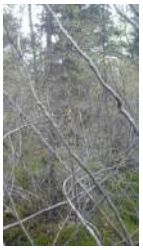
Tree Tally 249

Notes

Dead

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Species	Tally	ID
Picea mariana	1.00	564

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		198
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	105.00		Of
Horizon 2	115.00		SiC
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M24	Field Crew	AMI TOM	309

Feature ID	ELC-N-M24(449)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	4		
Start Date	5/19/2015 3:34:39 PM	Precipitation	0		
End Date	5/19/2015 3:53:22 PM	Cloud Cover	100.00		

Polygon Description 309

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 309

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana < Pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	common juniper
Groundcover	6 >0.2-0.5m	2 10 - 25%	Reindeer lichen << wintergreen
Floating & Submerged		0 None	

Stand Composition 309

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana < pinus strobus
Species Dominance 10-24	Pinus banksiana < pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	309

Community Age	Mid-Age
Ecosite	Acidic treed rock barren ecosite
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren type
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	252

Notes		Location	
		Latitude:45.860723,Longitude:-80.642188,Altitude:188.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/19/2015 03:50:54 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	3.00	567

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		201
Location	Latitude:45.860721,Longitude:-80.642188,Altitude:188.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/19/2015 03:47:44 EDT	Notes	Rock barren with no soils.
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	100.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Bedrock
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M14	Field Crew	AMI TOM	312

Feature ID	ELC-N-M14(443)	Congruent Features	M14(443), M14(431), M14(376), N14(377), M14(378)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	4		
Start Date	5/20/2015 12:25:41 PM	Precipitation	0		
End Date	5/20/2015 2:54:14 PM	Cloud Cover	0.00		

Polygon Description 312

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 312

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis
Groundcover	6 >0.2-0.5m	3 25 - 60%	Viccinium angustifolia = reindeer lichen
Floating & Submerged		0 None	

Stand Composition 312

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	312

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	255

Notes	Rock barren, large trees sparse	Location	Latitude:45.870682,Longitude:-80.630539,Altitude:193.3,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:05/20/2015 02:47:33 EDT
Dead			

Species	Tally	ID
Na	0.00	570

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		204
Location	Latitude:45.870683,Longitude:-80.630539,Altitude:193.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:48:23 EDT	Notes	Soil pit completed on rock barren. No soil present
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	100.00	Granite
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Very dry
Drainage	Very rapid
Effective Texture	Granite

Additional Notes

Rock barren with very small pockets of bog along eastern portion of map.

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M14	Field Crew	AMI TOM	315

Feature ID	ELC-N-M14(215)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	4		
Start Date	5/20/2015 12:41:08 PM	Precipitation	0		
End Date	5/20/2015 1:24:36 PM	Cloud Cover	0.00		

Polygon Description 315

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 315

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Betula papyrifera < pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Alnus incana
Shrub	4 >1-2m	2 10 - 25%	Chamaedaphne calyculata < Kalmia augustafolia
Groundcover	5 >0.5-1m	4 > 60%	Carex sp= Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 315

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Betula papyrifera < pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 315

Community Age	Mid-Age
Ecosite	Open Fen Ecosite
Ecosite Code	FEO
Vegetation Type	Beaked Sedge Open Fen Type
Vegetation Type Code	FEO1-5
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 258

Notes	No trees large enough to be tallied	Location	Latitude:45.869779,Longitude:-80.6361,Altitude:190.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:24:37 EDT
Dead			

Species	Tally	ID
None		573

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		207
Location	Latitude:45.869758,Longitude:-80.636141,Altitude:189.2,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:05/20/2015 01:02:10 EDT	Notes	Did not reach bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00		3
Horizon 2	65.00	80.00	Coarse sand
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet (7)
Drainage	Very poor
Effective Texture	Organic mesic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M14	Field Crew	AMI TOM	318

Feature ID	ELC-N-M14(375)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	5		
Start Date	5/20/2015 1:50:53 PM	Precipitation	0		
End Date	5/20/2015 2:06:11 PM	Cloud Cover	10.00		

Polygon Description 318

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 318

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana < Betula papyrifera
Sub Canopy	7 <0.2m	0 None	
Shrub	5 >0.5-1m	3 25 - 60%	Viccinium oxycoccos < Chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Carex sp=Sphagnum
Floating & Submerged		0 None	

Stand Composition 318

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	318

Community Age	
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf-Forb shrub Fen Type
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	261

Notes		Location	Latitude:45.87165,Longitude:-80.635891,Altitude:185.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/20/2015 02:02:03 EDT
Dead			

Species	Tally	ID
None		576

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		210
Location	Latitude:45.871447,Longitude:-80.63574,Altitude:185.2,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:02:53 EDT	Notes	Hit bedrock after 90cm
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	90.00	0.00	Organic mesic
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very wet
Drainage	Very poor
Effective Texture	Organic mesic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	321

Feature ID	ELC-N-M26(16)	Congruent Features	M26(118)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 9:30:39 AM	Precipitation	0		
End Date	5/20/2015 9:45:35 AM	Cloud Cover	0.00		

Polygon Description 321

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Graminoid
Community	Marsh

Stand Species 321

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	1 0% - 10%	Spiraea alba > alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex aquatilis
Floating & Submerged		0 None	

Stand Composition 321

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	321

Community Age	Mid-Age
Ecosite	MINERAL SHALLOW MARSH ECOSITE
Ecosite Code	MAS2
Vegetation Type	NARROW-LEAVED SEDGE mineral shallow marsh
Vegetation Type Code	MAS2-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	264

Notes		Location	Latitude:45.857379,Longitude:-80.645159,Altitude:172.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/20/2015 08:38:38 EDT
Dead			

Species	Tally	ID
Na		579

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	324

Feature ID	ELC-N-M26(118)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 8:49:44 AM	Precipitation	0		
End Date	5/20/2015 9:26:03 AM	Cloud Cover	0.00		

Polygon Description 324

System	Wetland
Site	Open Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Graminoid
Community	Marsh

Stand Species 324

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	1 0% - 10%	Spiraea alba> alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex aquatilis
Floating & Submerged		0 None	

Stand Composition 324

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags		N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	324

Community Age	Mid-Age
Ecosite	Mineral shallow marsh ecosite
Ecosite Code	MAS2
Vegetation Type	NARROW-LEAVED SEDGE MINERAL SHALLOW MARSH
Vegetation Type Code	MAS2-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	267

Notes		Location	Latitude:45.856673,Longitude:-80.64455,Altitude:181.6,Speed:0.12346666,Accuracy:2.1,Provider:gps,Time:05/20/2015 09:25:50 EDT
Dead			



Species	Tally	ID
Na		582

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		213
Location	Latitude:45.856655,Longitude:-80.644534,Altitude:183.0,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:05/20/2015 09:10:47 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	15.00
Slope Aspect (deg)	100.00	Gley	15.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	8.00		Of
Horizon 2	15.00	0.00	SimS
Horizon 3	120.00	0.00	C
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	C

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	327

Feature ID	ELC-N-M26(353)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 9:43:22 AM	Precipitation	0		
End Date	5/20/2015 10:54:07 AM	Cloud Cover	0.00		

Polygon Description 327

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 327

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana > pinus strobus
Sub Canopy	4 >1-2m	1 0% - 10%	Pinus banksiana > pinus strobus
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis > vaccinium angustifolium
Groundcover	7 <0.2m	3 25 - 60%	Cladina spp > polytrichum spp.
Floating & Submerged		0 None	

Stand Composition 327

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksisna> Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	327

Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	270

Notes		Location	
		Latitude:45.856467,Longitude:-80.648656,Altitude:188.9,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:05/20/2015 10:54:33 EDT	
Dead			

Species	Tally	ID
None	0.00	585

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	330

Feature ID	ELC-N-M26(354)	Congruent Features	M26(353)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 11:06:56 AM	Precipitation	0		
End Date	5/20/2015 11:11:25 AM	Cloud Cover	0.00		

Polygon Description 330

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 330

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > pinus strobus
Sub Canopy	4 >1-2m	1 0% - 10%	Pinus banksiana > pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis > vaccinium angustifolium
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp > polytrichum spp
Floating & Submerged		0 None	

Stand Composition 330

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana > pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	330

Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	273

Notes		Location	
		Latitude:45.856297,Longitude:-80.649624,Altitude:184.0,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/20/2015 11:10:37 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	2.00	588

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	333

Feature ID	ELC-N-M26(214)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/20/2015 11:19:01 AM	Precipitation	0		
End Date	5/20/2015 11:57:35 AM	Cloud Cover	0.00		

Polygon Description 333

System	Wetland
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Bryophyte,Mixed
Community	Swamp

Stand Species 333

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Picea mariana > Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Betula papyrifera > picea mariana
Shrub	3 >2-6m	3 25 - 60%	Nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp
Floating & Submerged			

Stand Composition 333

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Picea mariana > larix laricina
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	333

Community Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	Acidic Treed Rock Barren
Inclusion Code	RBT3
Complex	
Complex Code	

Tree Tally	276

Notes		Location	
		Latitude:45.855945,Longitude:-80.650825,Altitude:184.1,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:05/20/2015 11:51:35 EDT	
Dead			

Species	Tally	ID
Picea mariana	2.00	591
Betula papyrifera	2.00	594

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		216
Location	Latitude:45.855948,Longitude:-80.650834,Altitude:183.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/20/2015 11:48:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	4.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	29.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	29.00	100.00	Of
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	50.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	336

Feature ID	ELC-N-M26(22)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/20/2015 12:00:40 PM	Precipitation	0		
End Date	5/20/2015 12:34:05 PM	Cloud Cover	0.00		

Polygon Description 336

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 336

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	1 0% - 10%	Spiraea alba > alnus incana
Groundcover	5 >0.5-1m	4 > 60%	Carex aquatilis > sphagnum spp.
Floating & Submerged		0 None	

Stand Composition 336

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	336

Community Age	
Ecosite	Graminoid Mineral Meadow Marsh Ecosite
Ecosite Code	MAM2
Vegetation Type	Narrow-leaved Sedge Graminoid Mineral Meadow Marsh
Vegetation Type Code	MAM2-5
Inclusion	Acidic open rock barren
Inclusion Code	RBO3
Complex	
Complex Code	

Tree Tally	279

Notes		Location	
		Latitude:45.855829,Longitude:-80.652706,Altitude:180.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/20/2015 12:33:59 EDT	
Dead			

Species	Tally	ID
Na		597

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		219
Location	Latitude:45.855816,Longitude:-80.65274,Altitude:181.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/20/2015 12:26:04 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	31.00	Gley	30.00
Slope Percent	0.00	Water Table	40.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	30.00		Om
Horizon 2	60.00		mS
Horizon 3	120.00	31.00	C
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	C

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	339

Feature ID	ELC-N-M26(355)	Congruent Features	M26(354)		
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 11:47:25 AM	Precipitation	0		
End Date	5/20/2015 12:47:30 PM	Cloud Cover	0.00		

Polygon Description 339

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 339

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Picea mariana > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis > vaccinium angustifolium
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp > polytrichum spp
Floating & Submerged		0 None	

Stand Composition 339

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > pinus strobus > Betula pap
Species Dominance 10-24	Pinus banksiana > pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		339
Community Age	Mature	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	342

Feature ID	ELC-N-M26(453)	Congruent Features	M26(214)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 1:06:24 PM	Precipitation	0		
End Date	5/20/2015 1:29:56 PM	Cloud Cover	0.00		

Polygon Description 342

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 342

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > Betula papyrifera > pinus strobus
Shrub	4 >1-2m	2 10 - 25%	Ledum groenlandicum > nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 342

	<10	10-24	25-50	>50
Size Class Analysis	A	A	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		342
Community Age	Mid-Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 282

Notes

Location

Latitude:45.855648,Longitude:-80.654142,Altitude:180.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:20:36 EDT



Dead

Species	Tally	ID
Picea mariana	9.00	600

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		222
Location	Latitude:45.855648,Longitude:-80.654146,Altitude:180.4,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:19:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	77.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00		Of
Horizon 2			
Horizon 3		77.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	345

Feature ID	ELC-N-M26(182)	Congruent Features	M26(453)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/20/2015 1:30:00 PM	Precipitation	0		
End Date	5/20/2015 2:15:07 PM	Cloud Cover	0.00		

Polygon Description 345

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 345

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > larix laricina
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > larix laricina
Shrub	4 >1-2m	3 25 - 60%	Ledum groenlandicum > nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 345

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Picea mariana > larix laricina
Species Dominance 10-24	Picea mariana > larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 345

Community Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 285

Notes

Dead

Location

Latitude:45.856944,Longitude:-80.651729,Altitude:171.1,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:52:08 EDT



Species	Tally	ID
Picea mariana	5.00	603

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		225
Location	Latitude:45.856954,Longitude:-80.651757,Altitude:171.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	30.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	2.00	Of
Horizon 2		34.00	
Horizon 3		27.00	
Horizon 4		18.00	

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	348

Feature ID	ELC-N-M26(451)	Congruent Features	M26(181)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2		
Start Date	5/20/2015 1:31:32 PM	Precipitation	0		
End Date	5/20/2015 2:26:00 PM	Cloud Cover	0.00		

Polygon Description 348

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Bryophyte,Coniferous
Community	Bog

Stand Species 348

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > larix laricina
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > larix laricina
Shrub	4 >1-2m	3 25 - 60%	Ledum groenlandicum > kalmia polifolia > nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp
Floating & Submerged			

Stand Composition 348

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Picea mariana >larix laricina
Species Dominance 10-24	Picea mariana> larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 348

Community Age	Mature
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 288

Notes

Dead

Location

Latitude:45.857905,Longitude:-80.652652,Altitude:183.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:24:38 EDT



Species	Tally	ID
Picea mariana	1.00	606
Larix laricina	3.00	609

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		228
Location	Latitude:45.857902,Longitude:-80.652656,Altitude:183.4,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:26:01 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	7.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	1.00	Of
Horizon 2			
Horizon 3		100.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	351

Feature ID	ELC-N-M26(452)	Congruent Features	M26(354)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/20/2015 2:27:06 PM	Precipitation	0		
End Date	5/20/2015 3:47:50 PM	Cloud Cover	0.00		

Polygon Description 351

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 351

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > pinus strobus
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana > pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina spp > polytrichum spp
Floating & Submerged		0 None	

Stand Composition 351

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > pinus strobus
Species Dominance 10-24	Pinus banksiana > pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	351

Community Age	
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	291

Notes		Location	
		Latitude:45.857583,Longitude:-80.652166,Altitude:188.0,Speed:0.5247333,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:29:48 EDT	
Dead			

Species	Tally	ID
Na		612

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M26	Field Crew	KRISTAN WASHBURN	354

Feature ID	ELC-N-M26(216)	Congruent Features	M26(214), M26(213)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/20/2015 2:30:12 PM	Precipitation	0		
End Date	5/20/2015 3:54:05 AM	Cloud Cover	0.00		

Polygon Description 354

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 354

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > larix laricina > pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > larix laricina > pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Kalmia polifolia > chaemodaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp
Floating & Submerged			

Stand Composition 354

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	A	A	N	N
Deadfall / Logs	A	A	N	N

Species Dominance <10	Picea mariana > larix laricina > pinus stro
Species Dominance 10-24	Picea mariana > larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	354

Community Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	294

Notes		Location	
		Latitude:45.856958,Longitude:-80.650993,Altitude:185.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:39:34 EDT	
Dead	1.00		

Species	Tally	ID
Picea mariana	4.00	615

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		231
Location	Latitude:45.856974,Longitude:-80.650981,Altitude:186.1,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/20/2015 02:38:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	97.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00		Of
Horizon 2			
Horizon 3		97.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	357

Feature ID	ELC-N-M11(439)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0	Forecast	
Start Date	5/20/2015 10:13:44 AM	Precipitation	0		
End Date	5/20/2015 11:38:43 AM	Cloud Cover	0.00		

Polygon Description 357

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Terrace
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 357

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea marina > Larix laricina >>Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus strobus >Picea mariana >>Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Nemopanthus mocranatus >Picea mariana >> Aronia melanocarpa
Groundcover	6 >0.2-0.5m	4 > 60%	Vaccinium angustifolia >Chamaedaphne calamus >>Kalmia angustifolia >Sphagnum
Floating & Submerged		0 None	

Stand Composition 357

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	N	O	R	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea marina>Larix laricina
Species Dominance 10-24	Pinus banksiana >Pinus strobus
Species Dominance 25-50	Pinus banksiana >Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		357
Community Age	Mature	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp	
Ecosite Code	SWC4	
Vegetation Type	Black Spruce Organic Coniferous Swamp Type	
Vegetation Type Code	SWC4-3	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		297
Notes		Location
		Latitude:45.869198,Longitude:-80.6146,Altitude:193.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:05/20/2015 11:03:34 EDT
Dead	2.00	



Species	Tally	ID
Pinus banksiana	1.00	618
Pinus strobus	1.00	621
Picea marina	6.00	624
Acer rubrum	1.00	627

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		234
Location	Latitude:45.869307,Longitude:-80.614956,Altitude:193.0,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/20/2015 11:18:53 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	2.00	Gley	0.00
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00		Organic Mesic
Horizon 2	52.00	0.00	VfS
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderate Wet (7)
Drainage	Very Poor(7)
Effective Texture	Om

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	360

Feature ID	ELC-N-M11(348)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/20/2015 12:15:17 PM	Precipitation	0		
End Date	5/20/2015 1:16:41 PM	Cloud Cover	0.00		

Polygon Description 360

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 360

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus >>Pinus resinosa
Sub Canopy	4 >1-2m	1 0% - 10%	Pinus strobus >Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Acer rubrum
Groundcover	6 >0.2-0.5m	4 > 60%	Vaccinium angustifolia >Arctostaphylos uva-ursi >>Cladonia
Floating & Submerged		0 None	

Stand Composition 360

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	R
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus resinosa
Species Dominance 10-24	Pinus strobus >Pinus resinosa >>Pinus banksiana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 360

Community Age	Mature
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	Tamarack - Black Spruce Organic Coniferous Swamp
Inclusion Code	SWC4 -3
Complex	
Complex Code	

Tree Tally 300

Notes

Dead 0.00

Location

Latitude:45.869068,Longitude:-80.612469,Altitude:197.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/20/2015 01:24:38 EDT



Species	Tally	ID
Pinus strobus	1.00	630
Pinus banksiana	3.00	633
Pinus resinosa	1.00	636

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA	363

Feature ID	ELC-N-M11(113)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1	Forecast	
Start Date	5/20/2015 2:13:52 PM	Precipitation	0		
End Date	5/20/2015 2:31:55 PM	Cloud Cover	0.00		

Polygon Description 363

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Graminoid,Forb,Mixed
Community	Forest

Stand Species 363

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides >Pinus strobus >>Picea marina >>>Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Abies balsamea >Acer rubrum >>Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta >Acer rubrum >>Populus tremuloides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maiantemum canadensis >Pteridium aquilinum >>Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 363

	<10	10-24	25-50	>50
Size Class Analysis	R	A	O	
Standing Snags	N	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Abies balsamea >Acer rubrum
Species Dominance 10-24	Populus tremuloides >Acer rubrum >>Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 363

Community Age	Mature
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type
Vegetation Type Code	FOM5-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 303

Notes

Location

Latitude:45.869106,Longitude:-80.609421,Altitude:193.0,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/20/2015 02:55:58 EDT



Dead 0.00

Species	Tally	ID
Pinus	4.00	639
Acer	4.00	642
Abies balsamea	1.00	645
Populus tremuloides	1.00	648
Pinus banksiana	1.00	651

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	ELC-N-M11(113)		237
Location	Latitude:45.869084,Longitude:-80.609384,Altitude:188.9,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:05/20/2015 02:39:26 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	0.00
Slope Aspect (deg)	11.00	Gley	0.00
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Organic
Horizon 2	5.00		SIcS
Horizon 3	25.00	0.00	cS
Horizon 4			

% Surface Stone	2.00
Moisture Regime	Moderate dry
Drainage	RAPID (2)
Effective Texture	cS

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	366

Feature ID	ELC-N-M11(349)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2	Forecast	
Start Date	5/20/2015 4:08:06 PM	Precipitation	0		
End Date	5/20/2015 4:20:19 PM	Cloud Cover	0.00		

Polygon Description 366

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 366

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus >>Pinus resinosa
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus strobus >Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Acer rubrum
Groundcover	6 >0.2-0.5m		Vaccinium angustifolia >Arctostaphylos uva-ursi >Cladonia
Floating & Submerged		0 None	

Stand Composition 366

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	R
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus resinosa
Species Dominance 10-24	Pinus strobus >Pinus resinosa >>Pinus banksiana
Species Dominance 25-50	PINUS STROBUS
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		366
Community Age	Mature	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC classification like plot ELC-N-M11 (348)

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	369

Feature ID	ELC-N-M11(425)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2	Forecast	
Start Date	5/20/2015 4:24:00 PM	Precipitation	0		
End Date	5/20/2015 4:32:12 PM	Cloud Cover	0.00		

Polygon Description 369

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 369

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus >>Pinus resinosa
Sub Canopy	3 >2-6m	2 10 - 25%	PINUS STROBUS >PINUS BANKSIANA
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Acer rubrum
Groundcover	6 >0.2-0.5m	4 > 60%	Vaccinium angustifolia >Arctostaphylos uva-ursi >Cladonia
Floating & Submerged		0 None	

Stand Composition 369

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	R
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus resinosa
Species Dominance 10-24	PINUS STROBUS >PINUS RESINOSA >>PINUS BANKSIANA
Species Dominance 25-50	PINUS STROBUS
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		369
Community Age	Mature	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC classification like plot ELC-N-M11 (348)

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	372

Feature ID	ELC-N-M11(220)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/20/2015 4:48:36 PM	Precipitation	0		
End Date	5/20/2015 4:54:44 PM	Cloud Cover	0.00		

Polygon Description 372

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Graminoid,Forb,Mixed
Community	Forest

Stand Species 372

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides >Pinus strobus >>Picea marina >>>Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Abies balsamea >Acer rubrum >>Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta >Acer rubrum >>Populus tremuloides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum canadense >Pteridium aquilinum >>Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 372

	<10	10-24	25-50	>50
Size Class Analysis	R	A	O	N
Standing Snags	N	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Abies balsamea >Acer rubrum
Species Dominance 10-24	POPULUS TREMULOIDES >ACER RUBRUM >>PINUS STROBUS
Species Dominance 25-50	PINUS STROBUS
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		372
Community Age	Mature	
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest	
Ecosite Code	FOM5	
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type	
Vegetation Type Code	FOM5-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC classification like plot ELC-N-M11 (113)

ELC - WEC

Map Number	N-M11	Field Crew	NATALIYA SIMONOVA JILL DEMAN	375

Feature ID	ELC-N-M11(219)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/20/2015 4:35:41 PM	Precipitation	0		
End Date	5/20/2015 4:41:53 PM	Cloud Cover	0.00		

Polygon Description 375

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Graminoid,Forb,Mixed
Community	Forest

Stand Species 375

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides >Pinus strobus >>Picea marina >>>Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Abies balsamea >Acer rubrum >>Betula papyrifera
Shrub	5 >0.5-1m	2 10 - 25%	Corylus cornuta >Acer rubrum >>Populus tremuloides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum canadense >Pteridium aquilinum >>Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 375

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	N
Standing Snags	N	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	ABIES BALSAMEA >ACER RUBRUM
Species Dominance 10-24	Populus tremuloides >Acer rubrum >>Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		375
Community Age	Mature	
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest	
Ecosite Code	FOM5	
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type	
Vegetation Type Code	FOM5-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC classification like plot ELC-N-M11 (113)

ELC - WEC

Map Number	N-M36	Field Crew	JASON AYESHA JEFF	378

Feature ID	ELC-N-M36(177)	Congruent Features	M36(224), M36(223), M36(265), M36(264), M36(266)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0		
Start Date	5/21/2015 9:35:06 AM	Precipitation	0		
End Date	5/21/2015 10:34:40 AM	Cloud Cover	0.00		

Polygon Description 378

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Bog

Stand Species 378

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana > Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > Larix laricina >Pinus banksiana
Shrub	3 >2-6m	4 > 60%	Kalmia angustifolia > Chamaedaphne calyculata > Picea mariana > Vaccinium angustifolium > UNK > Ledum groenlandicum
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp > Vaccinium oxycoccus > Vaccinium angustifolium > Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 378

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea banksiana > Larix laricina
Species Dominance 10-24	Larix laricina > Picea mariana >Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 378

Community Age	Mid-Age
Ecosite	Coniferous Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black spruce treed bog
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 306

Notes

Dead 0.00

Location

Latitude:45.855645,Longitude:-80.675354,Altitude:0.0,Speed:0.12861112,Accuracy:100.0,Provider:gps,Time:05/21/2015 10:29:25 EDT



Species	Tally	ID
Picea mariana	2.00	654
Pinus banksiana	2.00	657

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		240
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	21.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	21.00		Of
Horizon 2	120.00		Oh
Horizon 3	0.00	0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	7
Effective Texture	OH

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M36	Field Crew	JASON AYESHA JEFF	381

Feature ID	ELC-N-M36(413)	Congruent Features	M36(465), M36(305), M36(302), M36(303), M36(464)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	5/21/2015 10:43:40 AM	Precipitation	0		
End Date	5/21/2015 11:04:09 AM	Cloud Cover	0.00		

Polygon Description 381

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 381

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana > Picea mariana
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis > Picea mariana
Groundcover		2 10 - 25%	Cladina sp > Polytrichum juniperinum > Vaccinium angustifolium > Gaultheria procumbens > Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 381

	<10	10-24	25-50	>50
Size Class Analysis	R	A	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 381

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 309

Notes

Dead

Location

Latitude:45.855538,Longitude:-80.674889,Altitude:185.7,Speed:0.5453111,Accuracy:2.1,Provider:gps,Time:05/21/2015 11:03:37 EDT



Species	Tally	ID
Pinus banksiana	3.00	660

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M36	Field Crew	JASON AYESHA JEFF	384

Feature ID	ELC-N-M36(64)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	4		
Start Date	5/21/2015 2:01:43 PM	Precipitation	0		
End Date	5/21/2015 2:34:16 PM	Cloud Cover	90.00		

Polygon Description 384

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid
Community	Fen

Stand Species 384

	Height	Cover	Species Dominance
Canopy	7 <0.2m	0 None	
Sub Canopy	7 <0.2m	0 None	
Shrub	4 >1-2m	3 25 - 60%	Unk shrub > Alnus incana ssp rugosa > Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	3 25 - 60%	Graminoids
Floating & Submerged		0 None	

Stand Composition 384

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	R		

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		384
Community Age	Young	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Mountain Holly shrub Fen Type	
Vegetation Type Code	FES1-6	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		243
Pit ID	1	

Location	Latitude:45.857975,Longitude:-80.679848,Altitude:183.0,Speed:0.010288889,Accuracy:3.0,Provider:gps,Time:05/21/2015 02:27:20 EDT	Notes		
		Depth to: (cm)		
Slope Position	6 Level	Mottles		
Slope Aspect (deg)	0.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock	100.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	20.00	
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	7
Effective Texture	OF

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M8	Field Crew	JASON NORONHA. AYESHA PRASAD	387

Feature ID	ELC-N-M8(102)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/22/2015 8:42:49 AM	Precipitation	0		
End Date	5/22/2015 9:19:01 AM	Cloud Cover	20.00		

Polygon Description 387

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid,Mixed
Community	Marsh

Stand Species 387

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana <Picea marina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana<pinus banksiana <Pinus strobus<Betula papyrifera <Acer rubrum
Shrub	4 >1-2m		Alnus incana <unk<Picea mariana<Betula papyrifera <Kalmia angustifolia
Groundcover			Sphagnum spp=carexspp<Maianthemum canadense <Vaccinium angustifolium <Sarracenia purpurea
Floating & Submerged		0 None	

Stand Composition 387

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Picea mariana <Pinus banksiana <Betula papyrifera
Species Dominance 10-24	Pinus banksiana <Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	387

Community Age	Mid-Age
Ecosite	Coniferous Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black spruce Treed bog
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	312

Notes		Location	Latitude:45.886632,Longitude:-80.624554,Altitude:196.2,Speed:0.041155554,Accuracy:2.7,Provider:gps,Time:05/22/2015 09:16:58 EDT
Dead			



Species	Tally	ID
Pinus banksiana	1.00	663

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		246
Location	Latitude:45.88663,Longitude:-80.624556,Altitude:197.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	110.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	22.00	0.00	Of
Horizon 2	100.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M8	Field Crew	JASON NORONHA. AYESHA PRASAD	390

Feature ID	ELC-N-M8(428)	Congruent Features	M8(1), M8(438)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	5/22/2015 9:33:51 AM	Precipitation	0		
End Date	5/22/2015 10:01:50 AM	Cloud Cover	40.00		

Polygon Description 390

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 390

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana <Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana <Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis <Prunus pensylvanica <Acer rubrum
Groundcover	5 >0.5-1m	2 10 - 25%	Vaccinium angustifolium <Maianthemum canadense <Aralia hispida<Gaultheria procumbens <Trientalis borealis <carixspp
Floating & Submerged			

Stand Composition 390

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pin banksiana <Betula papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	393

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	315

Notes		Location	
		Latitude:45.885498,Longitude:-80.622798,Altitude:199.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/22/2015 09:59:24 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	4.00	666

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M49	Field Crew	ADAM MCCLELLAND, TOM SHORNEY	393

Feature ID	ELC-N-M49(227)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/21/2015 12:47:34 PM	Precipitation	0		
End Date	5/21/2015 1:35:43 PM	Cloud Cover	30.00		

Polygon Description 393

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Graminoid
Community	Fen

Stand Species 393

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	1 0% - 10%	Alnus incana > Larix laricina
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata > Myrica gale > Vaccinium oxycoccum
Groundcover	6 >0.2-0.5m	4 > 60%	Caryx sp. > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 393

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus incana > Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		390
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		318
Notes		Location
		Latitude:45.873369,Longitude:-80.714745,Altitude:181.6,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/21/2015 01:34:54 EDT
Dead		



Species	Tally	ID
Na		669

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		249
Location	Latitude:45.873359,Longitude:-80.714738,Altitude:181.0,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:05/21/2015 01:24:15 EDT	Notes	Did not reach bedrockWater present at surface
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Organic fibrc
Horizon 2	100.00	0.00	Clay
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet (7)
Drainage	Poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M8	Field Crew	JASON NORONHA. AYESHA PRASAD	396

Feature ID	ELC-N-M8(208)	Congruent Features	M8(140)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	5/22/2015 10:27:41 AM	Precipitation	0		
End Date	5/22/2015 10:56:34 AM	Cloud Cover	20.00		

Polygon Description 396

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Fen

Stand Species 396

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina <Pinus banksiana <Picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana < Larix laricina <Picea mariana
Shrub	4 >1-2m		Mountain holy<kalmia angustifolia <Chamaedaphne calyculata <Ledum grolandicum
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum spp<Vaccinium angustifolium <Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 396

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina <Betula papyrifera
Species Dominance 10-24	Larix laricina <Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 399

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 321

Notes

Location

Latitude:45.884147,Longitude:-80.620547,Altitude:196.0,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/22/2015 10:54:53 EDT



Dead

Species	Tally	ID
Larix laricina	1.00	672
Pinus banksiana	1.00	675

Tree Tally 327

Notes

Location

Latitude:45.882555,Longitude:-80.62036,Altitude:192.4,Speed:0.07716667,Accuracy:1.75,Provider:gps,Time:05/22/2015 11:19:44 EDT



Dead

Species	Tally	ID
Na		681

Soil Description

Pit ID 1 252

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.884219,Longitude:-80.620587,Altitude:198.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/22/2015 10:23:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	0.00	Of
Horizon 2	60.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Pit ID	2	258

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.882586,Longitude:-80.620446,Altitude:192.1,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/22/2015 11:16:24 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	120.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M49	Field Crew	ADAM MCCLELLAND, TOM SHORNEY	399

Feature ID	ELC-N-M49(127)	Congruent Features	M49 (127),M49 (136), M49(192),M49(193)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	5		
Start Date	5/21/2015 1:46:00 PM	Precipitation	0		
End Date	5/21/2015 2:43:04 PM	Cloud Cover	90.00		

Polygon Description 399

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 399

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksianna
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis
Groundcover		2 10 - 25%	Cladina rangiferina
Floating & Submerged		0 None	

Stand Composition 399

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 396

Community Age	Mature
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	Tamarack-leatherleaf treed kettle bog
Inclusion Code	BOT2-1
Complex	
Complex Code	

Tree Tally 324

Notes

Dead 0.00

Location

Latitude:45.873134,Longitude:-80.717145,Altitude:181.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/21/2015 02:42:47 EDT



Species	Tally	ID
Pinus banksiana	4.00	678

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		255
Location	Latitude:45.873171,Longitude:-80.717074,Altitude:181.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/21/2015 02:37:19 EDT	Notes	Pit completed in treed rock barren community. No soils present
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	2.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	100.00	Bedrock
Horizon 2			
Horizon 3		2.00	
Horizon 4			

% Surface Stone	100.00
Moisture Regime	dry
Drainage	Very rapid
Effective Texture	Bend rock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M49	Field Crew	ADAM MCCLELLAND, TOM SHORNEY, AMI ARSENAULT	402

Feature ID	ELC-N-M49(117)	Congruent Features	M49(333)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/21/2015 2:46:15 PM	Precipitation	0		
End Date	5/22/2015 9:43:18 AM	Cloud Cover	95.00		

Polygon Description 402

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 402

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > Pinus banksiana
Sub Canopy	4 >1-2m	3 25 - 60%	Picea mariana
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne caliculata = Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 402

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	402

Community Age	Mid-Age
Ecosite	Black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	330

Notes		Location	
		Latitude:45.873523,Longitude:-80.717375,Altitude:182.3,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/22/2015 09:38:50 EDT	
Dead	1.00		

Species	Tally	ID
Pinus strobus	1.00	684

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		261
Location	Latitude:45.873507,Longitude:-80.717381,Altitude:182.7,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/22/2015 09:36:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00		Organic humic
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic humic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M49	Field Crew	AMI ARSENAULT, TOM SHORNEY	405

Feature ID	ELC-N-M49(332a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/22/2015 9:58:44 AM	Precipitation	0		
End Date	5/22/2015 10:25:18 AM	Cloud Cover	30.00		

Polygon Description 405

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Mixed
Community	Forest

Stand Species 405

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus = Betula papyrifera = Populus tremuloides
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubrum > Populus tremuloides
Shrub	5 >0.5-1m	2 10 - 25%	Viccinnium angustifolium > Acer rubrum
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum = Trientalis borealis
Floating & Submerged		0 None	

Stand Composition 405

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Pinus strobus = Populus tremuloides
Species Dominance 10-24	Acer rubrum > Populus tremuloides
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	405

Community Age	Mid-Age
Ecosite	Dry-fresh white birch-poplar-conifer mixed forest
Ecosite Code	FOM5
Vegetation Type	Dry-fresh white birch mixed forest type
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	333

Notes		Location	
		Latitude:45.873578,Longitude:-80.719987,Altitude:179.7,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/22/2015 10:19:28 EDT	
Dead	1.00		

Species	Tally	ID
Betula papyrifera	1.00	687
Acer rubrum	4.00	690
Pinus strobus	3.00	693

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		264
Location	Latitude:45.873573,Longitude:-80.719975,Altitude:179.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/22/2015 10:21:56 EDT	Notes	
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	0.00
Slope Aspect (deg)	4.00	Gley	0.00
Slope Percent	10.00	Water Table	0.00
Slope Length (m)	50.00	Carbonates	
		Bedrock	4.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	4.00	4.00	Sandy loam
Horizon 2	0.00	0.00	
Horizon 3		4.00	
Horizon 4			

% Surface Stone	27.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Sandy loam

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M49	Field Crew	AMI ARSENAULT, TOM SHORNEY	408

Feature ID	ELC-N-M49(332b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/22/2015 10:27:40 AM	Precipitation	0		
End Date	5/22/2015 10:47:48 AM	Cloud Cover	50.00		

Polygon Description 408

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Bog

Stand Species 408

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Shrub	4 >1-2m	1 0% - 10%	Larix laricina > alnus americana
Groundcover	5 >0.5-1m	4 > 60%	Carex sp.
Floating & Submerged		0 None	

Stand Composition 408

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		408
Community Age	Mid-Age	
Ecosite	Graminoid Open Bog Ecosite	
Ecosite Code	BOO1	
Vegetation Type	Few-seeded Sedge Open Bog Type	
Vegetation Type Code	BOO1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	267

Location	Latitude:45.873707,Longitude:-80.72034,Altitude:184.1,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:05/22/2015 10:43:49 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00		Organic fibric
Horizon 2	75.00	75.00	Sandy clay loam
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M47	Field Crew	HEATHER KRISTAN JASON	411

Feature ID	ELC-N-M47(29)	Congruent Features	M47(87), M47(477), M48(126), M48(176), M48(175), M48(174)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	5/21/2015 11:37:08 AM	Precipitation	0		
End Date	5/21/2015 12:15:52 PM	Cloud Cover	20.00		

Polygon Description 411

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 411

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana> Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > Larix laricina
Shrub	3 >2-6m	4 > 60%	Nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp. > Maianthemum Trifolium
Floating & Submerged		0 None	

Stand Composition 411

	<10	10-24	25-50	>50
Size Class Analysis	A		N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Picea mariana > Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	411

Community Age	Mid-Age
Ecosite	Tamarack - Black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack - Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	Acidic treed rock barren
Inclusion Code	RBT3
Complex	
Complex Code	

Tree Tally	336

Notes		Location	
		Latitude:45.862935,Longitude:-80.703075,Altitude:182.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/21/2015 11:48:26 EDT	
Dead	0.00		

Species	Tally	ID
Picea mariana	3.00	696
Larix laricina	2.00	699

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		270
Location	Latitude:45.862939,Longitude:-80.703076,Altitude:182.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/21/2015 11:41:50 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00		Of
Horizon 2			
Horizon 3		100.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M47	Field Crew	HEATHER KRISTAN JASON	414

Feature ID	ELC-N-M47(123)	Congruent Features	M48(233)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	5/21/2015 12:57:45 PM	Precipitation	0		
End Date	5/21/2015 1:33:53 PM	Cloud Cover	50.00		

Polygon Description 414

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 414

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana = Larix laricina > Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina > Picea mariana
Shrub	4 >1-2m	3 25 - 60%	Chamaedaphne calyculata > Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp. > Carex aquatilis
Floating & Submerged		0 None	

Stand Composition 414

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina > Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	414

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen type
Vegetation Type Code	FET1-1
Inclusion	Acidic treed rock barren
Inclusion Code	RBT3
Complex	
Complex Code	

Tree Tally	339

Notes		Location	Latitude:45.863843,Longitude:-80.704876,Altitude:182.5,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:05/21/2015 01:13:16 EDT
Dead			



Species	Tally	ID
Pinus banksiana	1.00	702

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		273
Location	Latitude:45.863837,Longitude:-80.704884,Altitude:183.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/21/2015 01:06:22 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	139.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3		100.00	
Horizon 4			

% Surface Stone	10.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M48	Field Crew	HEATHER KRISTAN JASON	417

Feature ID	ELC-N-M48(194)	Congruent Features	M48(195)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	5/21/2015 2:48:32 PM	Precipitation	0		
End Date	5/21/2015 3:11:19 PM	Cloud Cover	100.00		

Polygon Description 417

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Bryophyte,Mixed
Community	Forest

Stand Species 417

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera > Picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Betula papyrifera > Picea mariana
Shrub	4 >1-2m	1 0% - 10%	Vibernum cassinoides > Vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Maianthemum canadensis > Trientalis borealis
Floating & Submerged		0 None	

Stand Composition 417

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Betula papyrifera > Picea mariana
Species Dominance 10-24	Picea mariana >> Pinus banksiana
Species Dominance 25-50	Picea glauca
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 417

Community Age	Young
Ecosite	Fresh-moist poplar-white birch mixed forest ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh-moist white birch mixed forest type
Vegetation Type Code	FOM8-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 342

Notes

Location

Latitude:45.869418,Longitude:-80.709776,Altitude:184.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/21/2015 02:59:44 EDT



Dead 1.00

Species	Tally	ID
Picea mariana	3.00	705
Picea glauca	2.00	708
Populus tremuloides	1.00	711
Betula papyrifera	1.00	714
Quercus rubra	1.00	717

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		276
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	164.00	Gley	13.00
Slope Percent	0.00	Water Table	13.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	35.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	13.00		Humic
Horizon 2	28.00	40.00	SicS
Horizon 3	35.00	10.00	SiL
Horizon 4			

% Surface Stone	59.00
Moisture Regime	5
Drainage	5
Effective Texture	SicS

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M48	Field Crew	KASEY & KRISTAN	420

Feature ID	ELC-N-M48(230)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	5/22/2015 9:45:34 AM	Precipitation	0		
End Date	5/22/2015 10:21:15 AM	Cloud Cover	25.00		

Polygon Description 420

System	Wetland
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 420

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Picea mariana
Sub Canopy	5 >0.5-1m	1 0% - 10%	Picea mariana
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata > Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp > sedge spp > grass spp
Floating & Submerged		1 0% - 10%	Menyanthes trifoliata > Myriophyllum sibiricum

Stand Composition 420

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	420

Community Age	Young
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf-Forb shrub Fen Type
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	345

Notes		Location	
		Latitude:45.87167,Longitude:-80.710278,Altitude:184.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/22/2015 10:19:52 EDT	
Dead	1.00		

Species	Tally	ID
Picea mariana	1.00	720

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		279
Location	Latitude:45.871756,Longitude:-80.710261,Altitude:183.0,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:05/22/2015 10:16:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	41.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M48	Field Crew	KASEY & KRISTAN	423

Feature ID	ELC-N-M48(313)	Congruent Features	M47(476), M47(417), M47(315), M47(478), M48(314), M48(27)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	5/22/2015 10:34:00 AM	Precipitation	0		
End Date	5/22/2015 10:44:54 AM	Cloud Cover	25.00		

Polygon Description 423

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 423

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Picea mariana > life glauca
Sub Canopy	4 >1-2m	1 0% - 10%	Pinus banksiana> Picea mariana >Picea glauca
Shrub	4 >1-2m	2 10 - 25%	Vaccinium angustifolium > juniperus communis >Vaccinium myrtilloides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp. > polytrichun spp.
Floating & Submerged		0 None	

Stand Composition 423

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Picea mariana
Species Dominance 10-24	Pinus banksiana > Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	423

Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	Tamarack - black spruce organic coniferous swamp
Complex Code	SWC4

Tree Tally	348

Notes

Dead

Location

Latitude:45.871833,Longitude:-80.712894,Altitude:186.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/22/2015 10:40:53 EDT



Species	Tally	ID
Na		723

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M48	Field Crew	KASEY & KRISTAN	426

Feature ID	ELC-N-M48(228)	Congruent Features	M48(479)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	5/22/2015 10:46:33 AM	Precipitation	0		
End Date	5/22/2015 11:26:32 AM	Cloud Cover	30.00		

Polygon Description 426

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 426

	Height	Cover	Species Dominance
Canopy	3 >2-6m	0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata > Myrica gale
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp > Phragmites sp > Typha latifolia
Floating & Submerged		0 None	

Stand Composition 426

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	426

Community Age	Mid-Age
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FEO1
Vegetation Type	Leatherleaf-Forb shrub Fen Type
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	351

Notes		Location	Latitude:45.871839,Longitude:-80.71319,Altitude:183.4,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/22/2015 11:01:05 EDT
Dead			



Species	Tally	ID
Na		726

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		282
Location	Latitude:45.871881,Longitude:-80.713103,Altitude:184.0,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/22/2015 11:00:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	100.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00		Of
Horizon 2			
Horizon 3		100.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M25	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	429

Feature ID	ELC-N-M25(211)	Congruent Features	M25(210)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	5/22/2015 9:10:09 AM	Precipitation	0		
End Date	5/22/2015 9:53:47 AM	Cloud Cover	25.00		

Polygon Description 429

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 429

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina>Picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina>Picea mariana>>Pinus banksiana
Shrub	5 >0.5-1m	4 > 60%	Ledum groenlandicum>Chamaedaphne calyculata>Kalmia polifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp.>maianthemum trifolium>vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 429

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina >Picea mariana
Species Dominance 10-24	Larix laricina>Picea mariana »pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	429

Community Age	
Ecosite	Tamarack - black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack - black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	354

Notes		Location	Latitude:45.863716,Longitude:-80.649826,Altitude:193.5,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/22/2015 09:32:25 EDT
Dead	0.00		



Species	Tally	ID
Larix laricina	14.00	729

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		285
Location	Latitude:45.863703,Longitude:-80.649804,Altitude:192.8,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:05/22/2015 09:39:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	Of
Horizon 2	55.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Humic

Additional Notes

Changed boundary of polygon



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M25	Field Crew	NATALIYA SIMINOVA , JOHANNA PERZ	432

Feature ID	ELC-N-M25(350)	Congruent Features	M25(18)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	5/22/2015 9:57:43 AM	Precipitation	0		
End Date	5/22/2015 11:28:22 AM	Cloud Cover	25.00		

Polygon Description 432

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 432

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana> Pinus strobus>>Picea glauca
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana >Pinus strpbus>>Picea glauca
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladonia > vaccinium angustifolium > maianthemum canadensis
Floating & Submerged		0 None	

Stand Composition 432

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana > Pinus strpbus >> Picea glauca
Species Dominance 10-24	Pinus banksiana > Pinus strobus >> Picea glauca
Species Dominance 25-50	Pinus banksiana > Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	432

Community Age	Mature
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	SWC4
Inclusion Code	
Complex	
Complex Code	

Tree Tally	357

Notes		Location	
		Latitude:45.863782,Longitude:-80.65037,Altitude:199.7,Speed:0.0,Accuracy:1.5,Provider:gps,Time:05/22/2015 11:03:42 EDT	
Dead	1.00		

Species	Tally	ID
Pinus banksiana	6.00	732

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		288
Location	Latitude:45.863865,Longitude:-80.650284,Altitude:191.4,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/22/2015 11:26:28 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	Bedrock
Drainage	Bedrock
Effective Texture	Bedrock

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M33	Field Crew	NATALIYA SIMONOVA JILL DEMAN	435

Feature ID	ELC-N-M33(187)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/21/2015 10:05:29 AM	Precipitation	0		
End Date	5/21/2015 10:47:25 AM	Cloud Cover	0.00		

Polygon Description 435

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 435

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina >Picea mariana >>Pinus strobus
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina >Picea mariana >>Betula papyrifera
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata >Ledum groenlandicum >>Kalmia polifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum >Carex sp>>Vaccinium oxycoccos
Floating & Submerged		0 None	

Stand Composition 435

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina >Picea mariana
Species Dominance 10-24	PInus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	435

Community Age	Mature
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf-Forb Shrub Fen Types
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	360

Notes		Location	
		Latitude:45.861272,Longitude:-80.666991,Altitude:184.2,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:05/21/2015 10:28:07 EDT	
Dead	0.00		

Species	Tally	ID
Larix laricina	0.00	735
Picea marina	0.00	738
Pinus strobus	0.00	741

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		291
Location	Latitude:45.861255,Longitude:-80.666974,Altitude:185.3,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/21/2015 10:38:55 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	1.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2			
Horizon 3		1.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderate Wet (7)
Drainage	Very Poor(7)
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M33	Field Crew	NATALIYA SIMONOVA JILL DEMAN	438

Feature ID	ELC-N-M33(276)	Congruent Features	M33(277), M33(278), M33(275)		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4	Forecast	
Start Date	5/21/2015 10:59:43 AM	Precipitation	0		
End Date	5/21/2015 11:46:32 AM	Cloud Cover	0.00		

Polygon Description 438

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Submerged,Floating-LVD,Graminoid,Forb,Bryophyte
Community	Lake

Stand Species 438

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover		0 None	
Floating & Submerged		3 25 - 60%	Nymphaea odorata >Potamogeton zosteriformis >>Brasenia schreberi

Stand Composition 438

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	438
Community Age	Mature
Ecosite	Floating-leaved Shallow Aquatic Ecosite
Ecosite Code	SAF1
Vegetation Type	Water Lily-Bullhead Lily Floating-leaved Shallow A
Vegetation Type Code	SAF1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M33	Field Crew	JILL DEMAN NATALIYA SIMONOVA	441

Feature ID	ELC-N-M33(103)	Congruent Features	M32(357), M32(356)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/21/2015 12:13:43 PM	Precipitation	0		
End Date	5/21/2015 12:57:51 PM	Cloud Cover	0.00		

Polygon Description 441

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 441

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	Pinus strobus >Pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana >Pinus strobus
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Pinus strobus
Groundcover	7 <0.2m	3 25 - 60%	Cladonia>Vaccinium angustifolium>>Maianthemum canadensis
Floating & Submerged		0 None	

Stand Composition 441

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	R
Standing Snags	R	R	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana >Pinus banksiana
Species Dominance 25-50	PINUS STROBUS
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		441
Community Age	Old Growth	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion	1-Shoreline community with shrab 2 - Black Spruce	
Inclusion Code	RBS3 -1; BOT1-1; SWC4-1	
Complex		
Complex Code		

Tree Tally		363
Notes		Location
		Latitude:45.863623,Longitude:-80.670086,Altitude:184.0,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:05/21/2015 12:52:33 EDT
Dead	0.00	



Species	Tally	ID
Pinus banksiana	2.00	744

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		294
Location	Latitude:45.863617,Longitude:-80.670647,Altitude:183.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/21/2015 01:52:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	21.00	Gley	0.00
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		vcS
Horizon 2		0.00	
Horizon 3		0.00	
Horizon 4			

% Surface Stone	99.00
Moisture Regime	0
Drainage	0
Effective Texture	BEDROCK

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M33	Field Crew	NATALIYA SIMONOVA JILL DEMAN	444

Feature ID	ELC-N-M33(104)	Congruent Features	M33(462)		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/21/2015 1:19:58 PM	Precipitation	0		
End Date	5/21/2015 1:40:01 PM	Cloud Cover	80.00		

Polygon Description 444

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 444

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea marina >Pinus strobus >>Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea marina >Larix laricina >>Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Nemopanthus mocranatus >Corylus cornuta >>Picea marina
Groundcover	7 <0.2m	4 > 60%	Sphagnum >Chamaedaphne caliculatum>>Ledum groenlandicum
Floating & Submerged		0 None	

Stand Composition 444

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea marina >Larix laricina
Species Dominance 10-24	Picea marina >Larix laricina >>Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		444
Community Age	Old Growth	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack-Black Spruce Organic ConiferousSwamp Type	
Vegetation Type Code	SWC4 -1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		366
Notes		
Location	Latitude:45.863718,Longitude:-80.670518,Altitude:182.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/21/2015 01:38:28 EDT	
Dead	0.00	



Species	Tally	ID
Picea marina	1.00	747
Pinus strobus	2.00	750
Larix laricina	5.00	753

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		297
Location	Latitude:45.863601,Longitude:-80.670759,Altitude:181.7,Speed:0.7408,Accuracy:1.8,Provider:gps,Time:05/21/2015 03:02:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	3.00	Gley	112.00
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Of
Horizon 2	17.00		Om
Horizon 3	70.00	0.00	Oh
Horizon 4	102.00		SIC

% Surface Stone	1.00
Moisture Regime	Very Wet(9)
Drainage	Very poor (7)
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M33	Field Crew	NATALIYA SIMONOVA JILL DEMAN	447

Feature ID	ELC-N-M33(460)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3	Forecast	
Start Date	5/21/2015 2:13:42 PM	Precipitation	0		
End Date	5/21/2015 2:40:45 PM	Cloud Cover	90.00		

Polygon Description 447

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 447

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Chamaedaphne calyculata
Groundcover	5 >0.5-1m	4 > 60%	Carex sp>Potentilla polustris
Floating & Submerged		0 None	

Stand Composition 447

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		447
Community Age	Mature	
Ecosite	Organic Shallow Marsh Ecosite	
Ecosite Code	MAS3	
Vegetation Type	Broad -leaved Sedge Organic Shallow Marsh Type	
Vegetation Type Code	MAS3-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	300

Location	Latitude:45.863382,Longitude:-80.670769,Altitude:181.8,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:05/21/2015 02:38:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	8.00	Gley	72.00
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Of
Horizon 2	72.00		C
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderate Wet
Drainage	Very Poor
Effective Texture	Of

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M32	Field Crew	ADAM MCCLELLAND, JILL DEMAN	450

Feature ID	ELC-N-M32(48)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/22/2015 9:42:04 AM	Precipitation	0		
End Date	5/22/2015 10:23:34 AM	Cloud Cover	50.00		

Polygon Description 450

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 450

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > Larix laricina > Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana
Shrub	3 >2-6m	3 25 - 60%	Nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 450

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana > larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		450
Community Age	Mature	
Ecosite	Tamarack - black spruce organic coniferous swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack-black spruce organic coniferous swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	369

Notes		Location	
		Latitude:45.855896,Longitude:-80.655263,Altitude:189.0,Speed:0.0463,Accuracy:2.0,Provider:gps,Time:05/22/2015 10:03:05 EDT	
Dead	1.00		

Species	Tally	ID
Picea mariana	5.00	756
Larix laricina	5.00	759
Betula papyrifera	1.00	762

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		303
Location	Latitude:45.855906,Longitude:-80.655266,Altitude:188.0,Speed:0.09774444,Accuracy:1.75,Provider:gps,Time:05/22/2015 10:09:15 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	46.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Peat
Horizon 2	30.00		Organic mesic
Horizon 3	46.00	0.00	Bedrock
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor (7)
Effective Texture	Organic mesic

Additional Notes

Depression among rock barrens



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M32	Field Crew	ADAM, JILL	453

Feature ID	ELC-N-M32(23)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	4		
Start Date	5/22/2015 10:33:07 AM	Precipitation	0		
End Date	5/22/2015 11:38:22 AM	Cloud Cover	50.00		

Polygon Description 453

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Thicket

Stand Species 453

	Height	Cover	Species Dominance
Canopy	3 >2-6m	4 > 60%	Alnus incana rugosa
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Rubus idaeus
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum canadensis = Thelypteris palustris
Floating & Submerged		0 None	

Stand Composition 453

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	A	N	N	N

Species Dominance <10	Alnus incana rugosa
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	453

Community Age	Mid-Age
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite
Ecosite Code	SWT2
Vegetation Type	Alder mineral thicket swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	372

Notes

Location

Dead

Species	Tally	ID
Na		765

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		306
Location	Latitude:45.855798,Longitude:-80.656116,Altitude:185.3,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/22/2015 11:04:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	72.00
Slope Percent	0.00	Water Table	72.00
Slope Length (m)	105.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00		Organic mesic
Horizon 2	21.00	5.00	Silty medium coarse sand
Horizon 3	72.00	0.00	Medium coarse sand
Horizon 4	110.00	0.00	Clay

% Surface Stone	0.00
Moisture Regime	Moderately moist
Drainage	Moderately well (4)
Effective Texture	Medium sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M32	Field Crew	ADAM MCCLELLAND AND JILLIAN DEMAN	456

Feature ID	ELC-N-M32(129a)	Congruent Features	M32(459)		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/22/2015 11:46:36 AM	Precipitation	0		
End Date	5/22/2015 12:07:40 PM	Cloud Cover	70.00		

Polygon Description 456

System	Wetland
Site	Open Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Deciduous
Community	Fen

Stand Species 456

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne
Groundcover	4 >1-2m	2 10 - 25%	Sphagnum>>Typha latifolia>Carex sp
Floating & Submerged			

Stand Composition 456

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	456
Community Age	Mature
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf-forb fen shrub type
Vegetation Type Code	FES 1-4
Inclusion	MAS3-4; SWT
Inclusion Code	
Complex	
Complex Code	

Tree Tally	375

Notes

Location

Dead

Species	Tally	ID
Na		768

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M32	Field Crew	ADAM, JILL	459

Feature ID	ELC-N-M32(24)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	5/22/2015 12:34:23 PM	Precipitation	0		
End Date	5/22/2015 1:04:06 PM	Cloud Cover	75.00		

Polygon Description 459

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Coniferous
Community	Fen

Stand Species 459

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Picea mariana
Sub Canopy	4 >1-2m	1 0% - 10%	Picea mariana > Larix laricina
Shrub	4 >1-2m	1 0% - 10%	Alnus viridis crispa
Groundcover	6 >0.2-0.5m		Caryx sp.
Floating & Submerged		4 > 60%	Sphagnum sp.

Stand Composition 459

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	A	A	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	459

Community Age	Mature
Ecosite	Coniferus Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	378

Notes		Location	
Dead			

Species	Tally	ID
Na		771

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		309
Location	Latitude:45.855109,Longitude:-80.660157,Altitude:176.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/22/2015 12:59:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	55.00	Carbonates	
		Bedrock	58.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	58.00	0.00	Organic fibric (peat)
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor (7)
Effective Texture	Organic fibric

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M38	Field Crew	JULIE & KASEY	462

Feature ID	ELC-N-M38(289,51)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	5/25/2015 10:21:15 AM	Precipitation	1		
End Date	5/25/2015 11:22:51 AM	Cloud Cover	100.00		

Polygon Description 462

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 462

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinuban > pinustr
Sub Canopy	3 >2-6m	2 10 - 25%	Pinuban > pinustr > Betupap
Shrub	7 <0.2m	2 10 - 25%	Commjun > pinuban
Groundcover	7 <0.2m	3 25 - 60%	Lichen > Sphagnum spp > vaccang > desccec
Floating & Submerged		0 None	

Stand Composition 462

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinubas > pinustr
Species Dominance 10-24	Pinubas
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	462
Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	treed bog
Inclusion Code	BOT1-1
Complex	
Complex Code	

Additional Notes

Bog patches in south section on map



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M38	Field Crew	KASEY & JULIE	465

Feature ID	ELC-N-M38(254)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	5/25/2015 12:55:14 PM	Precipitation	1		
End Date	5/25/2015 1:22:56 PM	Cloud Cover	90.00		

Polygon Description 465

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 465

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picemar > larilar >> betupap >> poputre
Sub Canopy	3 >2-6m	3 25 - 60%	Picemar
Shrub	4 >1-2m	3 25 - 60%	Ulnuina
Groundcover	6 >0.2-0.5m	2 10 - 25%	Vaccang > chamcal >> kalmang
Floating & Submerged			

Stand Composition 465

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picemar
Species Dominance 10-24	Picemar
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	465

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	381

Notes		Location	Latitude:45.871939,Longitude:-80.688998,Altitude:185.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/25/2015 01:13:29 EDT
Dead	0.00		



Species	Tally	ID
Picea mariana	2.00	774
Larix laricina	1.00	777

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		312
Location	Latitude:45.871906,Longitude:-80.688887,Altitude:182.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/25/2015 01:21:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	1.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	8.00	Carbonates	
		Bedrock	5.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1			O
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M38	Field Crew	JULIE & KASEY	468

Feature ID	ELC-N-M38(253)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	5/25/2015 1:25:44 PM	Precipitation	1		
End Date	5/25/2015 1:44:06 PM	Cloud Cover	100.00		

Polygon Description 468

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 468

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larilac = picemar
Sub Canopy	3 >2-6m	1 0% - 10%	Picemar
Shrub	4 >1-2m	4 > 60%	Ulnuinc > vibucas >> picemar
Groundcover	6 >0.2-0.5m	2 10 - 25%	Sphagnum spp > Paccang > calmpro
Floating & Submerged			

Stand Composition 468

	<10	10-24	25-50	>50
Size Class Analysis	O	R	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picemar
Species Dominance 10-24	Picemar
Species Dominance 25-50	Picemar
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		468
Community Age	Mid-Age	
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT2	
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

ELC - WEC

Map Number	N-M38	Field Crew	JULIE & KASEY	471

Feature ID	ELC-N-M38(251)	Congruent Features	M38(252)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	0		
Start Date	5/25/2015 2:19:33 PM	Precipitation	1		
End Date	5/25/2015 2:45:33 PM	Cloud Cover	100.00		

Polygon Description 471

System	Wetland
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 471

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larilar
Sub Canopy	4 >1-2m	1 0% - 10%	Larilar > picemar
Shrub	5 >0.5-1m	0 None	Carex sp
Groundcover	7 <0.2m	4 > 60%	Sphagnum > chamcal = kalmang = myrigal > baccang = sarrpur
Floating & Submerged		0 None	

Stand Composition 471

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larilar
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		471
Community Age	Mid-Age	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack treed fen	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		315
Pit ID	1	

Location	Latitude:45.872749,Longitude:-80.69384,Altitude:176.7,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/25/2015 02:31:55 EDT		Notes	
			Depth to: (cm)	
Slope Position	6 Level		Mottles	
Slope Aspect (deg)	62.00		Gley	
Slope Percent	0.00		Water Table	
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Peat
Horizon 2			
Horizon 3		4.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Na
Drainage	Na
Effective Texture	Peat

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-m38	Field Crew	JULIE KASEY	474

Feature ID	ELC-N-M38(274)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	5/25/2015 3:30:35 PM	Precipitation	2		
End Date	5/25/2015 3:45:49 PM	Cloud Cover	100.00		

Polygon Description 474

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Bog

Stand Species 474

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamcal>ledugro >kalnpol>larilar
Groundcover	7 <0.2m	4 > 60%	Sphagnum >>vaccoxy> sarrpur
Floating & Submerged		2 10 - 25%	Chara sp

Stand Composition 474

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		474
Community Age	Young	
Ecosite	Deciduous shrub Bog Ecosite	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog	
Vegetation Type Code	BOS1-1	
Inclusion	Stonewort shallow submerged aquatic	
Inclusion Code	SAS1-3	
Complex		
Complex Code		

Additional Notes

ELC - WEC

Map Number	n-m38	Field Crew	JULIE KASEY	477

Feature ID	Elc-n-m38(272)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	5/25/2015 4:00:53 PM	Precipitation	1		
End Date	5/25/2015 4:15:08 PM	Cloud Cover	100.00		

Polygon Description 477

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb
Community	Bog

Stand Species 477

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover	6 >0.2-0.5m	3 25 - 60%	Chamcal > ledugro >kalmpol > larilar
Floating & Submerged		2 10 - 25%	Chara. Sp

Stand Composition 477

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		477
Community Age	Young	
Ecosite	Deciduous shrub Bog Ecosite	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog	
Vegetation Type Code	BOS1-1	
Inclusion	Stonework shallow submerged aquatic	
Inclusion Code	SAS1-3	
Complex		
Complex Code		

Additional Notes

ELC - WEC

Map Number	N-M15	Field Crew	HEATHER KIME, SARAH RICHER	480

Feature ID	ELC-N-M15(58)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	5/22/2015 10:30:44 AM	Precipitation	0		
End Date	5/22/2015 11:40:58 AM	Cloud Cover	100.00		

Polygon Description 480

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 480

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana
Shrub	4 >1-2m	4 > 60%	Ledum groenlandicum > Kalmia spp.
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 480

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	480

Community Age	Mature
Ecosite	Tamarack-black spruce organic coniferous swamp eco
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	384

Notes	Gray jay nest present	Location	Latitude:45.869067,Longitude:-80.643657,Altitude:193.9,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:05/22/2015 11:15:00 EDT
Dead	2.00		



Species	Tally	ID
Picea mariana	10.00	780

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		318
Location	Latitude:45.869077,Longitude:-80.643636,Altitude:193.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/22/2015 11:19:44 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	12.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		100.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Of - ferric
Drainage	Very poor 7
Effective Texture	Of

Additional Notes

Tamarack present but black spruce most dominant

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M15	Field Crew	HEATHER KIME, SARAH RICHER, & OLGA HROPACH	483

Feature ID	ELC-N-M15(442)	Congruent Features	M15(399), M15(440), M15(431), M15(443)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	5/22/2015 12:53:04 PM	Precipitation	0		
End Date	5/22/2015 1:41:23 PM	Cloud Cover	60.00		

Polygon Description 483

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 483

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana>Pinus strobus>>Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus strobus>Pinus banksiana
Shrub	5 >0.5-1m	4 > 60%	Juniperus communis>Vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Lichen sp>Danthonia spicata
Floating & Submerged		0 None	

Stand Composition 483

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	R
Standing Snags	O	O	R	R
Deadfall / Logs	O	O	R	R

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus strobus, Pinus banksiana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 483

Community Age	Mature
Ecosite	Acidic treed rock barren ecosite
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren type
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 387

Notes

Dead 2.00

Location

Latitude:45.866997,Longitude:-80.641612,Altitude:194.3,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/22/2015 01:12:45 EDT



Species	Tally	ID
Pinus banksiana	2.00	783
Pinus strobus	2.00	786

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		321
Location	Latitude:45.866992,Longitude:-80.641603,Altitude:193.9,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/22/2015 01:17:25 EDT	Notes	Small wet areas throughout that drain into adjacent large wetland
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	210.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Dry
Drainage	very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M15	Field Crew	SARAH RICHER, OLGA HROPACH	486

Feature ID	ELC-N-M15(10)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	5/25/2015 9:25:01 AM	Precipitation	2		
End Date	5/25/2015 11:01:14 AM	Cloud Cover	100.00		

Polygon Description 486

System	Wetland
Site	Bedrock
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 486

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus>Betula papyrifera
Sub Canopy	3 >2-6m	4 > 60%	Alnus incana >>Larix laricina>>Salix sp
Shrub	4 >1-2m	3 25 - 60%	Spiraea alba>Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp>Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 486

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Pinus banksiana = Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		486
Community Age	Mature	
Ecosite	Alder Organic Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT3	
Vegetation Type	Speckled Alder Organic Deciduous Thicket Swamp Ty	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 390

Notes

Location

Latitude:45.866592,Longitude:-80.641476,Altitude:191.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/25/2015 10:54:48 EDT



Dead

Species	Tally	ID
Tally not taken, thicket		789

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		324
Location	Latitude:45.866618,Longitude:-80.641446,Altitude:191.0,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/25/2015 10:10:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	1.00	Gley	
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	1.00	Organic fibric
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	6.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Organic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M15	Field Crew	OLGA HROPACH, SARAH RICHER	489

Feature ID	ELC-N-M15(399a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	5/25/2015 11:45:51 AM	Precipitation	2		
End Date	5/25/2015 12:23:13 PM	Cloud Cover	100.00		

Polygon Description 489

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 489

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina = Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Alnus incana
Shrub	5 >0.5-1m	2 10 - 25%	Spiraea sp>Kalmia polifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sedge sp
Floating & Submerged		0 None	

Stand Composition 489

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		489
Community Age	Mid-Age	
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT2	
Vegetation Type	Alder Mineral Thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	393

Notes		Location	
		Latitude:45.867399,Longitude:-80.641474,Altitude:187.5,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:14:53 EDT	
Dead			

Species	Tally	ID
None in		792

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		327
Location	Latitude:45.867368,Longitude:-80.641427,Altitude:185.3,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/25/2015 11:55:53 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	25.00
Slope Aspect (deg)	2.00	Gley	
Slope Percent	1.00	Water Table	7.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Loamy sand
Horizon 2	8.00	0.00	Coarse sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist(5)
Drainage	Imperfect
Effective Texture	Loamy sand

Additional Notes

At construction footprint is transition zone between alder thicket swamp & fen

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M15	Field Crew	OLGA HROPACH, SARAH RICHER	492

Feature ID	ELC-N-M15(441a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	5/25/2015 1:25:47 PM	Precipitation	1		
End Date	5/25/2015 2:04:27 PM	Cloud Cover	100.00		

Polygon Description 492

System	Wetland
Site	Bedrock
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 492

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana = Larix laricina
Shrub	4 >1-2m	4 > 60%	Chamaedaphne calyculata > Kalmia polifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp> Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 492

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Alnus incana>Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		492
Community Age	Mature	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf – Forb Shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		396
Notes		Location
		Latitude:45.870313,Longitude:-80.638923,Altitude:194.4,Speed:0.73565555,Accuracy:1.75,Provider:gps,Time:05/25/2015 01:46:48 EDT
Dead		



Species	Tally	ID
No tally done, shrub only		795

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		330
Location	Latitude:45.870332,Longitude:-80.638926,Altitude:194.7,Speed:0.4732889,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:48:49 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Organic

Additional Notes

Finger like extension of wetland in ELC-N-M_16

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M15	Field Crew	OLGA HROPACH, SARAH RICHER	495

Feature ID	ELC-N-M15(215)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	5/25/2015 2:20:24 PM	Precipitation	2		
End Date	5/25/2015 3:04:55 PM	Cloud Cover	100.00		

Polygon Description 495

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Fen

Stand Species 495

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	4 >1-2m	2 10 - 25%	Carex utriculata>>Chamaedaphne calyculata >Salix sp
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp
Floating & Submerged		0 None	

Stand Composition 495

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		495
Community Age	Mature	
Ecosite	Open Fen	
Ecosite Code	FEO	
Vegetation Type	Beaked Sedge Open Fen Type	
Vegetation Type Code	FEO1-5	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		333
Pit ID	1	

Location	Latitude:45.870017,Longitude:-80.636322,Altitude:198.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/25/2015 02:49:17 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Organic

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Boundaries redrawn on map

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M38	Field Crew	JULIE KASEY	498

Feature ID	ELC-N-M38(273)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	5/25/2015 11:31:52 AM	Precipitation	1		
End Date	5/25/2015 11:48:59 AM	Cloud Cover	100.00		

Polygon Description 498

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb
Community	Bog

Stand Species 498

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamcal>ledugro >kalmpol>larilar
Groundcover	7 <0.2m	4 > 60%	Sphagnum>>vaccoxy>sarrpur
Floating & Submerged		2 10 - 25%	Chara sp

Stand Composition 498

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 498

Community Age	Young
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf-Forb shrub Fen Type
Vegetation Type Code	FES1-4
Inclusion	Stonewort shallow submerged aquatic
Inclusion Code	SAS1-3
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	501

Feature ID	ELC-N-M16(442)	Congruent Features	M16(334), M16(335), M16(441)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	5/25/2015 10:31:22 AM	Precipitation	2		
End Date	5/25/2015 6:00:24 PM	Cloud Cover	100.00		

Polygon Description 501

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 501

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksonia
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Communis juniperus > Vaccinium angustifolia
Groundcover	7 <0.2m		Reindeer lichen = Maianthemum canadense
Floating & Submerged			

Stand Composition 501

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	A	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	501

Community Age	Mature
Ecosite	RBT3
Ecosite Code	ACIDIC TREED ROCK BARREN
Vegetation Type	RBT3-2
Vegetation Type Code	JACK PINE ACIDIC TREED ROCK BARREN TYPE
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	399

Notes	All small dbh	Location	Latitude:45.872954,Longitude:-80.64394,Altitude:191.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:40:36 EDT
Dead			



Species	Tally	ID
Na		798

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		336
Location	Latitude:45.872963,Longitude:-80.643921,Altitude:191.7,Speed:0.1389,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:45:55 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Bedrock
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Sandy loam

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	504

Feature ID	ELC-N-M16(55)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	5/25/2015 11:23:20 AM	Precipitation	2		
End Date	5/25/2015 8:55:28 PM	Cloud Cover	100.00		

Polygon Description 504

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Floating-LVD,Graminoid
Community	Fen

Stand Species 504

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	3 >2-6m	1 0% - 10%	Alnus incana
Groundcover	6 >0.2-0.5m	2 10 - 25%	Carex so. >> Typha latifilia
Floating & Submerged		2 10 - 25%	Nuphar variegatum = Nymphaea odorata

Stand Composition 504

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	504

Community Age	Mid-Age
Ecosite	Floating-leaved Shallow Aquatic Ecosite
Ecosite Code	SAF1
Vegetation Type	Water Lily-Bulhead Lily Floating-leaved Shallow Aq
Vegetation Type Code	SAF1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	402

Notes		Location	Latitude:45.874022,Longitude:-80.645121,Altitude:183.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 11:29:07 EDT
Dead			

Species	Tally	ID
Na		801

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		339
Location	Latitude:45.874023,Longitude:-80.645119,Altitude:183.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/25/2015 11:29:29 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	85.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	85.00	0.00	Organic humic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic humic

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	507

Feature ID	ELC-N-M16(5)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	5/25/2015 12:23:01 PM	Precipitation	1		
End Date	5/25/2015 9:05:33 PM	Cloud Cover	100.00		

Polygon Description 507

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous,Mixed
Community	Fen

Stand Species 507

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Shrub	5 >0.5-1m	4 > 60%	Ledum groenlandicum > leatherleaf
Groundcover	6 >0.2-0.5m		Carex sp > Sphagnum moss
Floating & Submerged			

Stand Composition 507

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		507
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	405

Notes		Location	
		Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	
Dead			

Species	Tally	ID
Na		804

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		342
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Organic fibric
Horizon 2			
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	Moderately wet (7)
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	510

Feature ID	ELC-N-M16(99)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	5/25/2015 12:56:10 PM	Precipitation	1		
End Date	5/25/2015 9:10:57 PM	Cloud Cover	100.00		

Polygon Description 510

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 510

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	4 > 60%	Alnus incana > Betula papyrifera
Shrub		2 10 - 25%	Ledum groenlandicum = Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex so. = Sphagnum moss > marsh cinquefoil
Floating & Submerged			

Stand Composition 510

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	N	R	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	510

Community Age	Young
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite
Ecosite Code	SWT2
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	408

Notes		Location	Latitude:45.871516,Longitude:-80.641652,Altitude:185.2,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:04:29 EDT
Dead			



Species	Tally	ID
Na		807

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		345
Location	Latitude:45.871502,Longitude:-80.641657,Altitude:184.2,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:05:47 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	45.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Organic fibric
Horizon 2	45.00	20.00	Sandy loam
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M16	Field Crew	TOM SHORNEY, JESSICA MENDOZA	513

Feature ID	ELC-N-M16(434)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	5/25/2015 1:44:20 PM	Precipitation	1		
End Date	5/25/2015 9:24:30 PM	Cloud Cover	100.00		

Polygon Description 513

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 513

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina = Picea mariana
Shrub	5 >0.5-1m	4 > 60%	Leatherleaf > bog laurel = sheep laurel
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum moss > Carex sp
Floating & Submerged			

Stand Composition 513

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	513

Community Age	Mid-Age
Ecosite	Conifer Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	411

Notes		Location	Latitude:45.875916,Longitude:-80.641847,Altitude:194.7,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:56:23 EDT
Dead			

Species	Tally	ID
Pinus banksiana	1.00	810

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		348
Location	Latitude:45.875913,Longitude:-80.641848,Altitude:195.0,Speed:0.40126666,Accuracy:1.25,Provider:gps,Time:05/25/2015 01:57:14 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	90.00	0.00	Organic fibric
Horizon 2	100.00	20.00	Sandy loam
Horizon 3			
Horizon 4			

% Surface Stone	20.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M19	Field Crew	OLGA HROPACH, SARAH RICHER	516

Feature ID	ELC-N-M19(445)	Congruent Features	M19(444)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	5/26/2017 10:00:30 AM	Precipitation	0		
End Date	5/26/2015 11:36:51 AM	Cloud Cover	0.00		

Polygon Description 516

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 516

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana>Pinus strobus>Betula papyrifera
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana>Pinus strobus>Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis
Groundcover	6 >0.2-0.5m	2 10 - 25%	Cladina sp>Moss sp>Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 516

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana>PINSTRO>BETPAPY=Acer rubra
Species Dominance 10-24	Pinus banksiana>Pinus strobus>Betula papyrifera
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		516
Community Age	Mature	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Common Juniper Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-2	
Inclusion	Shrub fen, &Tamarack–Leatherleaf Treed Kettle Bog	
Inclusion Code	FES & BOT2-1	
Complex		
Complex Code		

Soil Description		351
Pit ID	No pit done, rock barren	

Location	Latitude:45.8875,Longitude:-80.663581,Altitude:193.4,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:05/26/2015 10:14:55 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	None, rock barren
Drainage	None, rock barren
Effective Texture	None, rock barren

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Shrub fen FES inclusion dominated by sphagnum, small flowered cranberry, sheep laurel and bog laurel, aquatic sedge sp, three-leaved Solomons seal, blue flag iris

ELC - WEC

Map Number	N-M19	Field Crew	OLGA HROPACH, SARAH RICHER	519

Feature ID	ELC-N-M19(445a)	Congruent Features	M19(445b), M19(445c)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	5/26/2015 11:40:32 AM	Precipitation	0		
End Date	5/26/2015 12:40:41 PM	Cloud Cover	40.00		

Polygon Description 519

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 519

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides>>Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Betula papyrifera>Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Alnus incana>Betula papyrifera>Spiraea alba
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum>Grass sp>Vaccinium angustifolium>Maianthemum sp
Floating & Submerged		0 None	

Stand Composition 519

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	A	O	R	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Alnus incana>Betula papyrifera>Spiraea alba
Species Dominance 10-24	Populus tremuloides>Pinus banksiana
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	519

Community Age	Mature
Ecosite	Birch-Poplar Mineral Mixed Swamp Ecosite
Ecosite Code	SWM3
Vegetation Type	Poplar-Conifer Mineral Mixed Swamp Site
Vegetation Type Code	SWM3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	414

Notes		Location	
		Latitude:45.88775,Longitude:-80.660548,Altitude:191.1,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/26/2015 12:38:39 EDT	
Dead	1.00		

Species	Tally	ID
Populus tremuloides	6.00	813
Betula papyrifera	1.00	816

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		354
Location	Latitude:45.887757,Longitude:-80.660548,Altitude:188.0,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/26/2015 12:16:16 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	37.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Organic
Horizon 2	20.00		Very coarse sand
Horizon 3	37.00	0.00	Very fine sandy clay loam
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Well
Effective Texture	Very fine sandy clay loam

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M19	Field Crew	OLGA HROPACH, SARAH RICHER	522

Feature ID	ELC-N-M19(96)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	5/26/2015 2:20:41 PM	Precipitation	0		
End Date	5/26/2015 3:05:50 PM	Cloud Cover	70.00		

Polygon Description 522

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Forest

Stand Species 522

	Height	Cover	Species Dominance
Canopy	1 >25m	1 0% - 10%	Populus tremuloides
Sub Canopy	2 >6-25m	4 > 60%	Populus tremuloides>Acer rubrum
Shrub	3 >2-6m	3 25 - 60%	Alnus incana>Prunus sp.>Cornus sericea
Groundcover		3 25 - 60%	Maianthemum canadense=Aster macrophyllus
Floating & Submerged		0 None	

Stand Composition 522

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Alnus incana>Acer rubrum
Species Dominance 10-24	Populus tremuloides>Acer rubrum
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	522

Community Age	Mature
Ecosite	Maple Mineral Deciduous Swamp Ecosite
Ecosite Code	SWD3
Vegetation Type	Red Maple Mineral Deciduous Swamp Type
Vegetation Type Code	SWD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	417

Notes		Location	
		Latitude:45.886662,Longitude:-80.655618,Altitude:181.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/26/2015 02:53:25 EDT	
Dead			

Species	Tally	ID
Picea mariana	0.00	819
Acer rubrum	3.00	822
Populus tremuloides	3.00	825
Salix sp	1.00	828

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		357
Location	Latitude:45.886679,Longitude:-80.655613,Altitude:185.9,Speed:0.16976666,Accuracy:2.4,Provider:gps,Time:05/26/2015 02:34:57 EDT	Notes	Lots of standing water puddles on site at time of survey
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	18.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Organic
Horizon 2	17.00	0.00	Medium sand
Horizon 3	28.00		Silty Fine sand
Horizon 4			

% Surface Stone	1.00
Moisture Regime	Very moist
Drainage	Imperfect, class 5
Effective Texture	Silty fine sand

Additional Notes

Lots of standing water puddles at time of survey; main mature tree species included mostly trembling aspen, and some red maple, black spruce, alder, willow sp, canopy closure at least 80+%

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-N42	Field Crew	JASON NORONHA. AYESHA PRASAD	525

Feature ID	ELC-N-M42(321)	Congruent Features	M42(324), M41(471)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 9:18:24 AM	Precipitation	2		
End Date	5/25/2015 9:34:44 AM	Cloud Cover	100.00		

Polygon Description 525

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 525

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana <Picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis <Vaccinium angustifolium <Picea mariana <Betula papyrifera <pinus banksiana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp<Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 525

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	525

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	420

Notes		Location	
		Latitude:45.852177,Longitude:-80.691799,Altitude:186.5,Speed:0.10288889,Accuracy:1.75,Provider:gps,Time:05/25/2015 09:31:42 EDT	
Dead	2.00		

Species	Tally	ID
Na		831

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m42	Field Crew	JASON NORONHA. AYESHA PRASAD	528

Feature ID	Elc-n-m42(245)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 9:39:14 AM	Precipitation	2		
End Date	5/25/2015 9:52:20 AM	Cloud Cover	100.00		

Polygon Description 528

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Bog

Stand Species 528

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana <Larix laciana
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana <Larix laciana
Shrub	4 >1-2m	3 25 - 60%	Kalmia polifolia<Picea mariana<Larix laciana<Betula papyrifera
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum spp<Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 528

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana <Larix laricina
Species Dominance 10-24	Larix laricina <Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 528

Community Age	Mid-Age
Ecosite	Conifer Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black spruce treed bog type
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 423

Notes

Dead

Location

Latitude:45.852708,Longitude:-80.691803,Altitude:187.6,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/25/2015 09:51:15 EDT



Species	Tally	ID
Picea mariana	4.00	834
Larix laricina	1.00	837

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		360
Location	Latitude:45.852715,Longitude:-80.691799,Altitude:187.4,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/25/2015 09:49:03 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	25.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	4
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m42	Field Crew	JASON NORONHA. AYESHA PRASAD	531

Feature ID	Elc-n-m42(81)	Congruent Features	M42(34)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 10:06:47 AM	Precipitation	2		
End Date	5/25/2015 10:21:12 AM	Cloud Cover	100.00		

Polygon Description 531

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Bryophyte,Mixed
Community	Swamp

Stand Species 531

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina <Picea mariana
Sub Canopy	2 >6-25m	1 0% - 10%	Larix laricina <Picea mariana
Shrub	3 >2-6m	4 > 60%	Mountain holly<alder<Picea mariana<leather leaf<blueberry<Viburnum cassinoides
Groundcover	5 >0.5-1m	3 25 - 60%	Maianthemum canadense <mosses<starfower
Floating & Submerged		0 None	

Stand Composition 531

	<10	10-24	25-50	>50
Size Class Analysis	N	R	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	Larix laricina <Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		531
Community Age	Mid-Age	
Ecosite	Tamarack-black spruce organic coniferous swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack-Black spruce organic coniferous swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		426
Notes		Location
		Latitude:45.854232,Longitude:-80.691474,Altitude:189.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:17:03 EDT
Dead		



Species	Tally	ID
Picea mariana	1.00	840
Larix laricina	1.00	843

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		363
Location	Latitude:45.854234,Longitude:-80.691479,Altitude:189.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:18:22 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately dry
Drainage	Rapid
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m41	Field Crew	JASON NORONHA. AYESHA. PRASAD	534

Feature ID	Elc-n-m41(321)	Congruent Features	M41(35), M41(325), M41(309), M41(308), M41(306), M41(304), M41(324), M41(447)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 10:48:24 AM	Precipitation	1		
End Date	5/25/2015 1:13:27 PM	Cloud Cover	100.00		

Polygon Description 534

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 534

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m	2 10 - 25%	Juniperus communis <Vaccinium angustifolium <Spiraea alba<Aralia hispida <Picea mariana<Rubus idaeus
Groundcover	5 >0.5-1m	2 10 - 25%	Cladina spp<polytrichum juniperinum
Floating & Submerged		0 None	

Stand Composition 534

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	534

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	429

Notes		Location	Latitude:45.855474,Longitude:-80.69005,Altitude:186.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/25/2015 11:04:20 EDT
Dead			



Species	Tally	ID
Pinus banksiana	1.00	846

Tree Tally	432

Notes	No trees	Location	Latitude:45.857012,Longitude:-80.691464,Altitude:177.7,Speed:0.27265555,Accuracy:1.8,Provider:gps,Time:05/26/2015 10:17:07 EDT
Dead			



Species	Tally	ID
Na		849

Tree Tally	435

Notes	RBT3-2(322)	Location	Latitude:45.8583,Longitude:-80.688127,Altitude:172.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/26/2015 11:17:28 EDT
Dead			



Species	Tally	ID
Na		852

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m41	Field Crew	JASON NORONHA. AYESHA PRASAD	537

Feature ID	Elc-n-m41(329)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 11:49:15 AM	Precipitation	1		
End Date	5/25/2015 12:06:32 PM	Cloud Cover	100.00		

Polygon Description 537

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Swamp

Stand Species 537

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Larix laricina <Picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Larix laricina <Picea mariana
Shrub	3 >2-6m	3 25 - 60%	Picea mariana <Nemopanthus murcronatus<Alnus incana
Groundcover	5 >0.5-1m	2 10 - 25%	Maianthemum canadense <Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 537

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana <Larix laricina
Species Dominance 10-24	Larix laricina<Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		537
Community Age	Mid-Age	
Ecosite	Tamarack -black spruce organic coniferous swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack -black spruce organic coniferous swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		438
Notes		
Location	Latitude:45.857042,Longitude:-80.68456,Altitude:181.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/25/2015 11:59:56 EDT	
Dead		



Species	Tally	ID
Picea mariana	1.00	855

Tree Tally		441
Notes		
Location	Latitude:45.857095,Longitude:-80.686668,Altitude:176.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/26/2015 11:36:23 EDT	
Dead	1.00	



Species	Tally	ID
Larix laricina	4.00	858
Picea mariana	3.00	861

Soil Description		
Pit ID	1	366

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.857095,Longitude:-80.684507,Altitude:176.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/25/2015 11:52:59 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	53.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	30.00		Oh
Horizon 3	43.00		Cl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately dry
Drainage	Rapid
Effective Texture	Of

Pit ID	1	369

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.857098,Longitude:-80.686643,Altitude:176.4,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/26/2015 11:35:11 EDT	Notes	SWC4 (238)
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Of
Horizon 2	120.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m41	Field Crew	JASON NORONHA. AYESHA PRASAD	540

Feature ID	Elc-n-m41(280)	Congruent Features	M41(415), M41(416), M41(172)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/25/2015 12:17:00 PM	Precipitation	1		
End Date	5/25/2015 1:00:55 PM	Cloud Cover	100.00		

Polygon Description 540

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Terrace
Plant Form	Coniferous
Community	Bog

Stand Species 540

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana <Pinus banksiana <Populus tremuloides
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana <Larix laricina
Shrub	5 >0.5-1m	3 25 - 60%	Kalmia angustifolia <mountain holly<Picea mariana <Larix laricina <Vaccinium angustifolium
Groundcover	5 >0.5-1m	3 25 - 60%	Sphagnum spp<Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 540

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	N	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		540
Community Age	Mid-Age	
Ecosite	Coniferous Treed Bog Ecosite	
Ecosite Code	BOT1-1	
Vegetation Type	Black spruce treed bog	
Vegetation Type Code	BOT1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

ELC - WEC

Tree Tally 444

Notes		Location	
		Latitude:45.856259,Longitude:-80.683647,Altitude:183.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:22:29 EDT	
Dead	0.00		

Species	Tally	ID
Picea mariana	1.00	864

Tree Tally 447

Notes		Location	
		Latitude:45.857296,Longitude:-80.683716,Altitude:181.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/25/2015 12:34:44 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	1.00	867
Picea mariana	1.00	870

Tree Tally 450

Notes		Location	
		Latitude:45.857901,Longitude:-80.682036,Altitude:178.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 12:57:44 EDT	
Dead			

Species	Tally	ID
Picea mariana	2.00	873

Tree Tally 453

Notes	Bot1-1(172)	Location	
		Latitude:45.856378,Longitude:-80.69082,Altitude:178.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/26/2015 09:14:05 EDT	
Dead			

Species	Tally	ID
Picea mariana	7.00	876

Soil Description

Pit ID	1	372

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.856268,Longitude:-80.683647,Altitude:183.9,Speed:0.14404444,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:23:23 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	35.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	20.00	0.00	Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Of

Pit ID	1	375

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.857288,Longitude:-80.683693,Altitude:181.1,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/25/2015 12:33:29 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	52.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	77.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	30.00	0.00	Of
Horizon 2	52.00	0.00	0h
Horizon 3	77.00	4.00	Cl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Pit ID	3	378

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.857895,Longitude:-80.682039,Altitude:177.3,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:05/25/2015 12:55:28 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	32.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	17.00	0.00	Of
Horizon 2	32.00	0.00	Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Pit ID	1	381

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.856402,Longitude:-80.690829,Altitude:179.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:20:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	35.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	28.00	0.00	Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	n-m41	Field Crew	JASON NORONHA	543

Feature ID	Elc-n-m41(243)	Congruent Features	M41(244)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	5/26/2015 9:45:34 AM	Precipitation	0		
End Date	5/26/2015 10:01:48 AM	Cloud Cover	0.00		

Polygon Description 543

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Fen

Stand Species 543

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina
Sub Canopy	2 >6-25m	1 0% - 10%	Picea mariana
Shrub	4 >1-2m	3 25 - 60%	Mountain holly <sheep laurel<leatherleaf<Picea mariana <Viburnum cassinoides<Maianthemum canadense<Alnus incana <Trientalis borealis
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp<Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 543

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		543
Community Age	Mid-Age	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarck treed fen	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 456

Notes		Location	
		Latitude:45.856954,Longitude:-80.691025,Altitude:179.5,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:51:58 EDT	
Dead			

Species	Tally	ID
Larix laricina	4.00	879

Tree Tally 459

Notes	Fet244	Location	
		Latitude:45.856608,Longitude:-80.688409,Altitude:176.3,Speed:0.0926,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:37:05 EDT	
Dead			

Species	Tally	ID
Na		882

Soil Description

Pit ID	1	384

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.85695,Longitude:-80.691011,Altitude:180.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/26/2015 09:54:16 EDT	Notes	Fet243
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	45.00	0.00	Of
Horizon 2	50.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Of

Pit ID	1	387

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Location	Latitude:45.856606,Longitude:-80.688409,Altitude:176.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/26/2015 10:38:20 EDT	Notes	Fet244
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Of
Horizon 2	120.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M39	Field Crew	JULIE & KASEY	546

Feature ID	ELC-N-M39(468)	Congruent Features	M39(161), M39(162), M39(163)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/26/2015 10:20:52 AM	Precipitation	0		
End Date	5/26/2015 10:54:58 AM	Cloud Cover	5.00		

Polygon Description 546

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 546

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Pinumar > larilar > pinuban
Sub Canopy	4 >1-2m	1 0% - 10%	Pinumar > larilar > pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Myrcgal > careutr > picumar > Chamcal
Groundcover	7 <0.2m	4 > 60%	Sphagnum > grass sp >> sarrpur > vaccoxy
Floating & Submerged		0 None	

Stand Composition 546

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinumar > larilar
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	546

Community Age	Mid-Age
Ecosite	Decuduous Shrub fen
Ecosite Code	FES1
Vegetation Type	Sweet gale shrub fen
Vegetation Type Code	FES1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	462

Notes		Location	Latitude:45.873401,Longitude:-80.694533,Altitude:181.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:38:55 EDT
Dead			

Species	Tally	ID
Na		885

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		390
Location	Latitude:45.873438,Longitude:-80.694558,Altitude:178.6,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:33:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	81.00	Gley	
Slope Percent	6.00	Water Table	
Slope Length (m)	15.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Peat
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Na
Drainage	Na
Effective Texture	Peat

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M39	Field Crew	KASEY & JULIE	549

Feature ID	ELC-N-M39(203)	Congruent Features	M39(288), M39(286), M39(57)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/26/2015 10:57:01 AM	Precipitation	0		
End Date	5/26/2015 11:25:18 AM	Cloud Cover	15.00		

Polygon Description 549

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 549

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinuban > picemar >> pinustr = betupap
Sub Canopy	3 >2-6m	2 10 - 25%	Pinuban > picemar
Shrub	6 >0.2-0.5m	2 10 - 25%	Junicom > vaccang > kalmang >> pinuban
Groundcover	7 <0.2m	1 0% - 10%	Lichen sp = moss > descces > Maincan
Floating & Submerged		0 None	

Stand Composition 549

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinuban > picemar
Species Dominance 10-24	Pinuban > picemar
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	549

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	Black spruce treed bog, graminoid open bog
Complex Code	BOT1-1 , BOO1

Tree Tally	465

Notes		Location	
		Latitude:45.873311,Longitude:-80.695276,Altitude:177.8,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:05/26/2015 11:20:32 EDT	
Dead			

Species	Tally	ID
Na		888

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M39	Field Crew	JULIE & KASEY	552

Feature ID	ELC-N-M39(132)	Congruent Features	M39(202), M39(250)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/26/2015 11:42:48 AM	Precipitation	0		
End Date	5/26/2015 12:06:42 PM	Cloud Cover	10.00		

Polygon Description 552

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 552

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larilar = picemar
Sub Canopy	4 >1-2m	3 25 - 60%	picemar > ulnuinc > myrcgal > vibucas
Shrub	6 >0.2-0.5m	3 25 - 60%	Careutr > ledugro > chamcal > kalmang
Groundcover	7 <0.2m	4 > 60%	Sphagnum > grass sp > maiatri > sarrpur
Floating & Submerged		0 None	

Stand Composition 552

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picemar = larilar
Species Dominance 10-24	Picemar = larilar
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	552

Community Age	Mature
Ecosite	Coniferous treed fen
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	Speckled alder organic deciduous swamp
Inclusion Code	SWT3-1
Complex	
Complex Code	

Tree Tally	468

Notes		Location	
Dead			

Species	Tally	ID
Na		891

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		393
Location	Latitude:45.873881,Longitude:-80.694758,Altitude:179.7,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/26/2015 12:05:25 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Peat
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Na
Drainage	Na
Effective Texture	Peat

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M39	Field Crew	KASEY & JULIE	555

Feature ID	ELC-N-M39(94)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/26/2015 1:59:49 PM	Precipitation	0		
End Date	5/26/2015 2:40:48 PM	Cloud Cover	5.00		

Polygon Description 555

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 555

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larilar
Sub Canopy	4 >1-2m	1 0% - 10%	Larilar > ulnuinc
Shrub	6 >0.2-0.5m	4 > 60%	Careutr = myrigal = chamcal = spiraea sp
Groundcover	7 <0.2m	4 > 60%	Sphagnum > grass sp
Floating & Submerged		0 None	

Stand Composition 555

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larilar
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	555

Community Age	Mid-Age
Ecosite	Deciduous shrub fen
Ecosite Code	FES1
Vegetation Type	Leatherleaf forb shrub fen
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	471

Notes		Location	
Dead			

Species	Tally	ID
Na		894

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		396
Location	Latitude:45.877856,Longitude:-80.69388,Altitude:182.2,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:05/26/2015 02:27:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	56.00	Gley	
Slope Percent	6.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Of
Horizon 2	3.00	0.00	Om
Horizon 3	100.00	50.00	mS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	2
Effective Texture	mS

Additional Notes

Parts with open water and hummocks of Sphagnum. Depths of peat and water depth variable throughout

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M40	Field Crew	JULIE & KASEY	558

Feature ID	Elc-n-M40(469)	Congruent Features	M40(284)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/26/2015 3:22:49 PM	Precipitation	0		
End Date	5/26/2015 3:34:45 PM	Cloud Cover	5.00		

Polygon Description 558

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 558

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinuban
Sub Canopy	4 >1-2m	2 10 - 25%	Pinuban > betupap
Shrub	6 >0.2-0.5m	3 25 - 60%	Junicom > vaccang
Groundcover	7 <0.2m	3 25 - 60%	Lichen > moss > descces
Floating & Submerged		0 None	

Stand Composition 558

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	558

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	Black spruce treed bog
Complex Code	BOT1-1

Tree Tally	474

Notes		Location	
		Latitude:45.879323,Longitude:-80.692779,Altitude:185.6,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:05/26/2015 03:29:53 EDT	
Dead	1.00		

Species	Tally	ID
Pinuban	3.00	897

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M29	Field Crew	NATALIYA SIMINOVA	561

Feature ID	ELC-N-M29(44)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 9:21:57 AM	Precipitation	2		
End Date	5/25/2015 9:49:54 AM	Cloud Cover	100.00		

Polygon Description 561

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 561

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Piciea mariana > Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > larix laricina
Shrub	4 >1-2m	2 10 - 25%	Kalmia angustifolia > Nemopanthus mucronatus
Groundcover	5 >0.5-1m		Sphagnum spp. > Mainanthemum canadense
Floating & Submerged		0 None	

Stand Composition 561

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana > Larix laricinia
Species Dominance 10-24	Picea mariana > Larix laricinia
Species Dominance 25-50	Picea mariana>Larix laricinia
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		561
Community Age	Mature	
Ecosite	Tamarack - black spruce organic coniferous swamp e	
Ecosite Code	SWC4	
Vegetation Type	Black spruce organic coniferous swamp type	
Vegetation Type Code	SWC4-3	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 477

Notes

Dead 0.00

Location

Latitude:45.873958,Longitude:-80.66826,Altitude:195.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/25/2015 09:48:27 EDT



Species	Tally	ID
Picea mariana	2.00	900
Larix laricina	2.00	903

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		399
Location	Latitude:45.873995,Longitude:-80.668292,Altitude:196.6,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/25/2015 09:41:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	90.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	15.00	0.00	Om
Horizon 3	60.00	0.00	Oh
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M29	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	564

Feature ID	ELC-N-M29(456)	Congruent Features	M28(455), M28(412)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 10:09:09 AM	Precipitation	2		
End Date	5/25/2015 10:44:04 AM	Cloud Cover	100.00		

Polygon Description 564

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 564

	Height	Cover	Species Dominance
Canopy	1 >25m	1 0% - 10%	Picea mariana > Pinus strobus
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Picea mariana >> Pinus strobus
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium >> Kalima angustifolim
Groundcover	5 >0.5-1m	2 10 - 25%	Lichen > Mainanthemum canadense
Floating & Submerged		0 None	

Stand Composition 564

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Pinus banksiana > life mariana >> pinus strobus
Species Dominance 10-24	Pinus banksiana > life mariana >> pinus strobus
Species Dominance 25-50	Picea mariana > pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	564

Community Age	Mature
Ecosite	Acidic treed rock barren ecosite
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Dry - fresh poplar mixed forest type
Inclusion Code	FOM5-2
Complex	
Complex Code	

Tree Tally	480

Notes		Location	Latitude:45.87263,Longitude:-80.667023,Altitude:196.4,Speed:0.45785555,Accuracy:1.5,Provider:gps,Time:05/25/2015 10:17:54 EDT
Dead			



Species	Tally	ID
Pinus banksiana	3.00	906

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M29	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	567

Feature ID	ELC-N-M29(456A)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 10:45:51 AM	Precipitation	1		
End Date	5/25/2015 11:36:54 AM	Cloud Cover	100.00		

Polygon Description 567

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Forb,Bryophyte,Deciduous,Coniferous,Mixed
Community	Forest

Stand Species 567

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides > Pinus strobus
Sub Canopy	3 >2-6m	4 > 60%	Acer rubrum > Populus tremuloides >> Betula papyrifera
Shrub	4 >1-2m	4 > 60%	Corylus cornuta > Nemopanthus macronantus
Groundcover	5 >0.5-1m	2 10 - 25%	Mainanthemum canadense > Cornus canadensis >> Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 567

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	R	O	R	N

Species Dominance <10	Acer rubrum>Populus tremuloides>Betula papyrifera
Species Dominance 10-24	Populus tremuloides>pinus strobus>Acer rhbrum
Species Dominance 25-50	Populus tremuloides > pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	567

Community Age	
Ecosite	Fresh-Moist Poplar-White Birch Mixed Forest Ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh-Moist Poplar Mixed Forest Type
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	483

Notes		Location	Latitude:45.870352,Longitude:-80.665863,Altitude:187.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/25/2015 10:58:38 EDT
Dead	0.00		



Species	Tally	ID
Populus tremuloides	8.00	909
Acer rubrum	5.00	912
Pinus strobus	2.00	915

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		402
Location	Latitude:45.870336,Longitude:-80.665853,Altitude:184.2,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/25/2015 11:22:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	40.00
Slope Aspect (deg)	2.00	Gley	0.00
Slope Percent	6.00	Water Table	35.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Oh
Horizon 2	30.00	0.00	Sis
Horizon 3	50.00		Sl
Horizon 4	90.00		Scl

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	Scl

Additional Notes

Inclusion on ELC-NORTH-M29(456)



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M28	Field Crew	JOHANNA PEREZ, NATALIYA SIMINOVA	570

Feature ID	ELC-N-M28(154)	Congruent Features	M28(155)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	5/25/2015 11:58:19 AM	Precipitation	0		
End Date	5/25/2015 12:30:33 PM	Cloud Cover	100.00		

Polygon Description 570

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 570

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Picea mariana > Larix laricinia>>pinus banaksiana
Sub Canopy	4 >1-2m	1 0% - 10%	Picea mariana > Larix larixinia
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata > Kalmia polifolia
Groundcover	7 <0.2m	4 > 60%	Carex aquatilis > Sphagnum spp. >> Vaccinium oxycoccos
Floating & Submerged		0 None	

Stand Composition 570

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana>Larix laricinia
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	570

Community Age	Mature
Ecosite	Conifer Treed Bog Ecosite
Ecosite Code	BOT1
Vegetation Type	Black spruce treed bog type
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	486

Notes		Location	Latitude:45.867125,Longitude:-80.662488,Altitude:182.3,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:13:00 EDT
Dead			



Species	Tally	ID
No trees with large enough dbh		918

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		405
Location	Latitude:45.867186,Longitude:-80.662707,Altitude:183.8,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:15:17 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Changed polygon



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M28	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	573

Feature ID	ELC-N-M28(183)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 1:03:25 PM	Precipitation	1		
End Date	5/25/2015 1:45:41 PM	Cloud Cover	100.00		

Polygon Description 573

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Marsh

Stand Species 573

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix larcinia > Pinus strobus
Sub Canopy	4 >1-2m	2 10 - 25%	Alnus incana > Larix larcinia
Shrub	5 >0.5-1m	4 > 60%	Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex aquatilis
Floating & Submerged		0 None	

Stand Composition 573

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix larcinia
Species Dominance 10-24	Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		573
Community Age	Mid-Age	
Ecosite	Mineral meadow marsh ecosite	
Ecosite Code	MAM2	
Vegetation Type	Broad-leaved sedge mineral meadow marsh type	
Vegetation Type Code	MAM2-6	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		489
Notes		Location
		Latitude:45.867118,Longitude:-80.663911,Altitude:184.0,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:12:08 EDT
Dead	0.00	



Species	Tally	ID
Pinus strobus	1.00	921

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		408
Location	Latitude:45.867106,Longitude:-80.663884,Altitude:186.1,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/25/2015 01:23:24 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	10.00	5.00	Ls
Horizon 3	30.00	24.00	cS
Horizon 4	80.00	0.00	Scl

% Surface Stone	0.00
Moisture Regime	2
Drainage	3
Effective Texture	Scl

Additional Notes

Changed polygon



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M28	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	576

Feature ID	ELC-N-M28(52)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	5/25/2015 2:01:12 PM	Precipitation	1		
End Date	5/25/2015 2:16:28 PM	Cloud Cover	100.00		

Polygon Description 576

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 576

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata
Groundcover	7 <0.2m	3 25 - 60%	Sphagnum spp. > Carex spp.
Floating & Submerged		1 0% - 10%	Erythronium americanum

Stand Composition 576

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O	A	R	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		576
Community Age	Mature	
Ecosite	Shrub bog	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog type	
Vegetation Type Code	BOS1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 492

Notes		Location	
		Latitude:45.870507,Longitude:-80.664381,Altitude:184.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/25/2015 02:09:14 EDT	
Dead	1.00		

Species	Tally	ID
No live tree species in pikygi		924

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		411
Location	Latitude:45.870506,Longitude:-80.66438,Altitude:184.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/25/2015 02:10:17 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	120.00	0.00	Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes

Changed polygon



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M28	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	579

Feature ID	ELC-N-M28(21)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	5/25/2015 2:36:06 PM	Precipitation	1		
End Date	5/25/2015 2:45:33 PM	Cloud Cover	100.00		

Polygon Description 579

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Bryophyte
Community	Marsh

Stand Species 579

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	5 >0.5-1m	2 10 - 25%	Spiraea latifolia
Groundcover	5 >0.5-1m	4 > 60%	Carex aquatilis > Typha latifolia
Floating & Submerged		4 > 60%	

Stand Composition 579

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O	O	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		579
Community Age	Mature	
Ecosite	Mineral meadow marsh ecosite	
Ecosite Code	MAM2	
Vegetation Type	Narrow-leaved sedge mineral meadow marsh type	
Vegetation Type Code	MAM2-5	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	414

Location	Latitude:45.870111,Longitude:-80.666349,Altitude:189.1,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/25/2015 02:37:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	55.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	0.00	Oh
Horizon 2	40.00		Sc
Horizon 3	50.00		C
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	7
Effective Texture	Sc

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Changed polygon



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M9	Field Crew	NATALIA SIMINOVA, JOHANNA PERZ	582

Feature ID	ELC-N-M9(338)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	5/26/2015 9:27:46 AM	Precipitation	0		
End Date	5/26/2015 9:52:15 AM	Cloud Cover	15.00		

Polygon Description 582

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 582

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m		Juniperus communis > Chamaedaphne calycutus >> Kalmia angustifolia
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen spp. > Vaccinium angustifolium >> Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 582

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		582
Community Age	Mature	
Ecosite	Acidic treed rock barren ecosite	
Ecosite Code	RBT3	
Vegetation Type	Jack pine acidic treed rock barren type	
Vegetation Type Code	RBT3-2	
Inclusion	Dry - fresh poplar deciduous forest type	
Inclusion Code	FOD3-1	
Complex		
Complex Code		

Tree Tally 495

Notes		Location	
		Latitude:45.885353,Longitude:-80.629316,Altitude:197.4,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:42:43 EDT	
Dead	0.00		

Species	Tally	ID
Pinus banksiana	1.00	927

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		417
Location	Latitude:45.885348,Longitude:-80.629332,Altitude:196.9,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:49:29 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Bedrock
Drainage	Bedrock
Effective Texture	Bedrock

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M9	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	585

Feature ID	ELC-N-M9(338A)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	5/26/2015 10:42:21 AM	Precipitation	0		
End Date	5/26/2015 11:07:39 AM	Cloud Cover	0.00		

Polygon Description 585

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Forest

Stand Species 585

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides
Sub Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides >> Betula papyrifera > Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta
Groundcover	5 >0.5-1m	2 10 - 25%	Maianthemum canadense > Pteridium does aigles
Floating & Submerged		0 None	

Stand Composition 585

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	A	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Populus tremuloides > Betula papyrifera
Species Dominance 10-24	Populus tremuloides > Betula papyrifera
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		585
Community Age	Mid-Age	
Ecosite	Dry - fresh poplar - white birch deciduous forest	
Ecosite Code	FOD3	
Vegetation Type	Dry - fresh poplar deciduous forest type	
Vegetation Type Code	FOD3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 498

Notes

Location

Latitude:45.885609,Longitude:-80.633048,Altitude:192.9,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/26/2015 10:52:46 EDT



Dead 2.00

Species	Tally	ID
Populus tremuloides	8.00	930
Betula papyrifera	2.00	933
Acer rubrum	2.00	936

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		420
Location	Latitude:45.885619,Longitude:-80.633053,Altitude:192.6,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:36:20 EDT	Notes	North-west
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	80.00
Slope Aspect (deg)	6.00	Gley	0.00
Slope Percent	2.00	Water Table	50.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	O
Horizon 2	35.00	0.00	SIfS
Horizon 3	100.00	5.00	LS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	SIfS

Additional Notes

Inclusion on ELC-N-M9(338)



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M10	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	588

Feature ID	ELC-N-M10(100)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	5/26/2015 11:31:14 AM	Precipitation	0		
End Date	5/26/2015 12:03:51 PM	Cloud Cover	0.00		

Polygon Description 588

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 588

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	4 >1-2m	3 25 - 60%	Aulne rugueux
Groundcover	5 >0.5-1m	4 > 60%	Calamagrostis canadensis >> Carex aquatlis
Floating & Submerged		0 None	

Stand Composition 588

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		588
Community Age	Mid-Age	
Ecosite	Mineral tthicket swamp ecosite	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp type	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		501
Notes	Polygon with olive-sided flycatcher, snags are Betula papyrifera	
Location	Latitude:45.883947,Longitude:-80.631668,Altitude:194.6,Speed:0.07202222,Accuracy:1.5,Provider:gps,Time:05/26/2015 11:43:08 EDT	
Dead	2.00	



Species	Tally	ID
No live species		939

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		423
Location	Latitude:45.883953,Longitude:-80.631702,Altitude:193.9,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/26/2015 11:54:35 EDT	Notes	South
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	40.00
Slope Aspect (deg)	3.00	Gley	0.00
Slope Percent	1.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	O
Horizon 2	40.00	0.00	SIS
Horizon 3	100.00	0.00	SC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	6
Effective Texture	SIS

Additional Notes

Changed ELC code



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M10	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	591

Feature ID	ELC-N-M10(101)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	5/26/2015 12:47:57 PM	Precipitation	0		
End Date	5/26/2015 1:05:22 PM	Cloud Cover	0.00		

Polygon Description 591

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 591

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana >> Picea mariana > Larix. Laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana >> Picea mariana > Larix larcinia
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Kalmia polifolia
Groundcover	6 >0.2-0.5m	2 10 - 25%	Sphagnum spp. > Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 591

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus banksiana >> Picea mariana > Larix laricinia
Species Dominance 10-24	Pinus banksiana >> Picea mariana > Larix laricinia
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		591
Community Age	Mature	
Ecosite	Shrub bog ecosite	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog type	
Vegetation Type Code	B0S1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 504

Notes		Location	
		Latitude:45.880723,Longitude:-80.631473,Altitude:195.2,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:05:46 EDT	
Dead			

Species	Tally	ID
No large enough trees present		942

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		426
Location	Latitude:45.880711,Longitude:-80.63149,Altitude:196.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/26/2015 12:59:37 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Oh
Horizon 2	35.00	0.00	Om
Horizon 3	65.00	0.00	Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M10	Field Crew	NATALIYA SIMINOVA, JOHANNA PERZ	594

Feature ID	ELC-N-M10(340)	Congruent Features	M10(341)		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	5/26/2015 1:09:41 PM	Precipitation	0		
End Date	5/26/2015 1:23:46 PM	Cloud Cover	0.00		

Polygon Description 594

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 594

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniper communis
Groundcover	6 >0.2-0.5m		Lichen spp. > Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 594

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	594

Community Age	Mature
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	507

Notes	Snag is Pinus banksiana	Location	Latitude:45.881063,Longitude:-80.631755,Altitude:197.2,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:18:31 EDT
Dead	1.00		



Species	Tally	ID
Pinus banksana	2.00	945

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		429
Location	Latitude:45.881065,Longitude:-80.631757,Altitude:197.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:17:24 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Rock barren
Drainage	Rock barren
Effective Texture	Rock barren

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M44	Field Crew	ADAM, KRISTAN	597

Feature ID	ELC-N-M44(246)	Congruent Features	M44(158), M44(159), M44(157), M44(156), M44(32), M44(95), M44(159), M43(160), M43(249), M43(248), M43(89)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/25/2015 9:49:35 AM	Precipitation	2		
End Date	5/25/2015 10:21:07 AM	Cloud Cover	100.00		

Polygon Description 597

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Bryophyte,Coniferous
Community	Swamp

Stand Species 597

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > Larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Picea mariana > Larix laricina
Shrub	6 >0.2-0.5m	2 10 - 25%	Kalmia augustifolia > Ledum groenlandicum > Nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 597

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	A	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 597

Community Age	Mature
Ecosite	Tamarack-black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	Acidic jack pine treed rock barren
Inclusion Code	RBT3-2
Complex	
Complex Code	

Tree Tally 510

Notes

Dead 1.00

Location

Latitude:45.865574,Longitude:-80.694944,Altitude:190.3,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/25/2015 10:12:51 EDT



Species	Tally	ID
Picea mariana	18.00	948

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		432
Location	Latitude:45.865569,Longitude:-80.694951,Altitude:190.8,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/25/2015 10:07:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	1.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of (organic fibric)
Horizon 2	70.00	0.00	Om (organic mesic)
Horizon 3			
Horizon 4			

% Surface Stone	1.00
Moisture Regime	Moderately wet
Drainage	7 (very poor)
Effective Texture	Organic mesic

Additional Notes

160, 249, 248, 89 located in M43

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M44	Field Crew	ADAM, KRISTAN	600

Feature ID	ELC-N-M44(33)	Congruent Features	M44(232), M44(231), M43(247), M43(240), M43(241), M43 (242)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/25/2015 10:36:18 AM	Precipitation	2		
End Date	5/25/2015 11:03:04 AM	Cloud Cover	100.00		

Polygon Description 600

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Coniferous
Community	Fen

Stand Species 600

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Picea mariana > Larix laricina
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana > Larix laricina
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne caliculata > Kalmia augustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp. > Maianthemum trifolium > Osmunda regalis var. spectabilis
Floating & Submerged		0 None	

Stand Composition 600

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	600

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	Acidic jack pine treed rock barren
Inclusion Code	RBT3-2
Complex	
Complex Code	

Tree Tally	513

Notes		Location	
		Latitude:45.866292,Longitude:-80.695023,Altitude:187.5,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/25/2015 10:58:36 EDT	
Dead			

Species	Tally	ID
Picea mariana	2.00	951

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		435
Location	Latitude:45.866254,Longitude:-80.694997,Altitude:188.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/25/2015 10:54:54 EDT	Notes	Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of (organic fibric)
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	7 (very poor)
Effective Texture	Organic fibric

Additional Notes

247, 240, 241, 242 located in M43



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M44	Field Crew	ADAM, KRISTAN	603

Feature ID	ELC-N-M44(31)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/25/2015 11:42:49 AM	Precipitation	1		
End Date	5/25/2015 12:09:33 PM	Cloud Cover	100.00		

Polygon Description 603

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte
Community	Fen

Stand Species 603

	Height	Cover	Species Dominance
Canopy	6 >0.2-0.5m	1 0% - 10%	Picea mariana
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp. > Caryx sp.
Floating & Submerged		0 None	

Stand Composition 603

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		603
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		438
Pit ID	1	

Location	Latitude:45.870136,Longitude:-80.696483,Altitude:181.5,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/25/2015 12:02:37 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	0.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock	40.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Of (organic fibric)
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	7 (very poor)
Effective Texture	Organic fibric

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M44	Field Crew	ADAM, KRISTAN	606

Feature ID	ELC-N-M44(328)	Congruent Features	M44(327), M44(329), M44(330), M44(473), M44(474), M43 (472), M43(331)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/25/2015 12:35:30 PM	Precipitation	0		
End Date	5/25/2015 12:55:00 PM	Cloud Cover	100.00		

Polygon Description 606

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 606

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Picea mariana
Shrub	6 >0.2-0.5m	2 10 - 25%	Vaccinium angustifolium > Vaccinium myrtilloides > Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Cladina sp. > polytrichum sp.
Floating & Submerged		0 None	

Stand Composition 606

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	606

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	Tamarack-black spruce organic coniferous swamp
Complex Code	SWC4

Tree Tally 516

Notes		Location	Latitude:45.869545,Longitude:-80.699212,Altitude:183.6,Speed:0.025722222,Accuracy:1.25,Provider:gps,Time:05/25/2015 12:51:29 EDT
Dead	1.00		



Species	Tally	ID
None in		954

Additional Notes

331, 472 located in M43



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	ADAM MCCLELLAND	609

Feature ID	ELC-N-M13(4)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/26/2015 9:10:17 AM	Precipitation	0		
End Date	5/26/2015 9:42:12 AM	Cloud Cover	10.00		

Polygon Description 609

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Submerged,Graminoid,Forb,Bryophyte,Deciduous
Community	Marsh

Stand Species 609

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Spiraea alba> Alnus incana
Groundcover	5 >0.5-1m	4 > 60%	Carex aquatilis> Sphagnum spp. > Typha lattifolia
Floating & Submerged		1 0% - 10%	Utricularia intermedia

Stand Composition 609

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		609
Community Age	Young	
Ecosite	Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type	Narrow-leaved Sedge Mineral Shallow Marsh	
Vegetation Type Code	MAS2-3	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		441
Pit ID	1	

Location	Latitude:45.876429,Longitude:-80.629579,Altitude:185.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/26/2015 09:15:08 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	100.00	Gley	20.00	
Slope Percent	0.00	Water Table	2.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	100.00	Of
Horizon 2	70.00	0.00	CL
Horizon 3	120.00	0.00	C
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	CL

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	KRISTAN WASHBURN AND ADAM MCCLELLAND	612

Feature ID	ELC-N-M13(179)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/26/2015 10:15:04 AM	Precipitation	0		
End Date	5/26/2015 11:14:17 AM	Cloud Cover	0.00		

Polygon Description 612

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 612

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana> Larix laricini
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana> Larix laricina
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata > Ledum groenlandicum> Kalmia polifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp> Carex aquatica
Floating & Submerged		0 None	

Stand Composition 612

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs		R	R	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Picea mariana > Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	612

Community Age	Mid-Age
Ecosite	tamarack-black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-Black Spruce Organic Coniferous Swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	519

Notes		Location	Latitude:45.8762,Longitude:-80.627528,Altitude:186.3,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:59:22 EDT
Dead	0.00		



Species	Tally	ID
Larix laricina	3.00	957
Picea mariana	1.00	960

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		444
Location	Latitude:45.876211,Longitude:-80.627534,Altitude:184.5,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:57:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Of
Horizon 2	70.00		Om
Horizon 3	120.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	O

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	ADAM MCCLELLAND AND KRISTAN WASHBURN	615

Feature ID	ELC-N-M13(360)	Congruent Features	M13(70)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/26/2015 11:49:55 AM	Precipitation	0		
End Date	5/26/2015 12:42:23 PM	Cloud Cover	0.00		

Polygon Description 615

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Thicket

Stand Species 615

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy	4 >1-2m	1 0% - 10%	Chamaedaphne calyculata> Alnus incana
Shrub	4 >1-2m	1 0% - 10%	Chanaedaphne calyculata > Kalmia polifolia
Groundcover	3 >2-6m	4 > 60%	Sphagnum spp. > sedge spp. > Mainthrmum trifolium
Floating & Submerged			

Stand Composition 615

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		615
Community Age	Young	
Ecosite	Organic. Thicket swamp	
Ecosite Code	SWT3	
Vegetation Type	Mountain holly organic thicker swamp	
Vegetation Type Code	SWT3-8	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	447

Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	100.00		Gley	
Slope Percent	0.00		Water Table	5.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	30.00		Om
Horizon 3	120.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	O

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	KRISTAN WASHBURN AND ADAM MCCLELLAND	618

Feature ID	ELC-N-M13(368)	Congruent Features	M13(361), M13(362), M13(430), M13(369)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/26/2015 1:23:05 PM	Precipitation	0		
End Date	5/26/2015 1:45:24 PM	Cloud Cover	0.00		

Polygon Description 618

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 618

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana > Betula payrifera
Shrub	4 >1-2m	2 10 - 25%	Vaccinium angustifolium > Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Cladina spp. > Polytrichun spp.
Floating & Submerged			

Stand Composition 618

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus baksiana> Betula papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	618

Community Age	
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3 -2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	522

Notes		Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:
Dead			

Species	Tally	ID
Na		963

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	KRISTAN WASHBURN AND ADAM MCCLELLAND	621

Feature ID	ELC-N-M13(72)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	5/26/2015 2:17:37 PM	Precipitation	0		
End Date	5/26/2015 2:28:02 PM	Cloud Cover	0.00		

Polygon Description 621

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 621

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana > Pinus banksiana
Shrub	3 >2-6m		Nemopanthus mucronatus > Ledum groenlandecum
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp> Gaultheria procumbens
Floating & Submerged			

Stand Composition 621

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Picea mariana.
Species Dominance 10-24	Pinus banksiana > Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 621

Community Age	Mid-Age
Ecosite	BLACK SPRUCE TTAMARACK ORGANIC CONIFEROUS SWAMP
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 525

Notes

Dead 0.00

Location

Latitude:45.87516,Longitude:-80.623177,Altitude:194.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/26/2015 02:22:15 EDT



Species	Tally	ID
Picea glauca	2.00	966
Pinus banksiana	1.00	969

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		450
Location	Latitude:45.875157,Longitude:-80.623186,Altitude:194.3,Speed:0.35496667,Accuracy:1.8,Provider:gps,Time:05/26/2015 02:23:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	297.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	100.00	Of
Horizon 2	50.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	17.00
Moisture Regime	7
Drainage	7
Effective Texture	Om

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M13	Field Crew	KRISTAN WASHBURN AND ADAM MCCLELLAND	624

Feature ID	ELC-N-M13(367)	Congruent Features	M13(69)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	5/26/2015 2:45:23 PM	Precipitation	0		
End Date	5/26/2015 3:01:07 PM	Cloud Cover	25.00		

Polygon Description 624

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 624

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata > Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp.> Carex sp.
Floating & Submerged			

Stand Composition 624

	<10	10-24	25-50	>50
Size Class Analysis		N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		624
Community Age		
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	453

Location	Latitude:45.874182,Longitude:-80.622902,Altitude:191.5,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/26/2015 02:46:09 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	23.00	Gley	70.00	
Slope Percent	0.00	Water Table	10.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	50.00		Om
Horizon 3	120.00		C
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Om

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M22	Field Crew	TOM SHORNEY, JESSICA MENDOZA	627

Feature ID	ELC-N-M22(221)	Congruent Features	M22(151)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/26/2015 9:31:13 AM	Precipitation	0		
End Date	5/26/2015 1:25:43 PM	Cloud Cover	5.00		

Polygon Description 627

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Fen

Stand Species 627

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana >> larix laricina
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > > larix laricina
Shrub	5 >0.5-1m	2 10 - 25%	Chamaedaphne calyculata >> kalmia angustifolia
Groundcover			Sphagnum sp >> Carex sp
Floating & Submerged			

Stand Composition 627

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Picea mariana > larix laricina
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 627

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 528

Notes	All trees small dbh	Location	Latitude:45.875993,Longitude:-80.655831,Altitude:187.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:43:18 EDT
Dead			

Species	Tally	ID
Na		972

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		456
Location	Latitude:45.875993,Longitude:-80.655824,Altitude:188.0,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/26/2015 09:41:14 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Organic fibric
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M22	Field Crew	TOM SHORNEY, JESSICA MENDOZA	630

Feature ID	ELC-N-M22(222)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/26/2015 10:48:40 AM	Precipitation	0		
End Date	5/26/2015 11:02:05 AM	Cloud Cover	5.00		

Polygon Description 630

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 630

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana
Sub Canopy	3 >2-6m		Picea mariana > larix laricina
Shrub	5 >0.5-1m		Chamaedaphne calyculata > kalmia angustifolia
Groundcover	6 >0.2-0.5m	3 25 - 60%	Sphagnum sp > mainthemum trifolium
Floating & Submerged			

Stand Composition 630

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	630

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	531

Notes		Location	
		Latitude:45.876464,Longitude:-80.657806,Altitude:186.4,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:05/26/2015 10:56:52 EDT	
Dead			

Species	Tally	ID
Picea mariana	7.00	975

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		459
Location	Latitude:45.876444,Longitude:-80.657712,Altitude:183.8,Speed:0.22635555,Accuracy:1.5,Provider:gps,Time:05/26/2015 10:59:06 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	110.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	110.00	0.00	Organic fibric
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet (7)
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M22	Field Crew	TOM SHORNEY, JESSICA MENDOZA	633

Feature ID	ELC-N-M22(97)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/26/2015 12:10:34 PM	Precipitation	0		
End Date	5/26/2015 12:18:59 PM	Cloud Cover	0.00		

Polygon Description 633

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Fen

Stand Species 633

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Picea mariana = larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Picea mariana
Shrub	4 >1-2m	3 25 - 60%	Alnus incana > chaemodaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp > Carex sp
Floating & Submerged			

Stand Composition 633

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana , larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		633
Community Age	Mid-Age	
Ecosite	Organic Thicket Swamp Ecosite	
Ecosite Code	SWT3	
Vegetation Type	Alder Organic Thicket Swamp Ecosite	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	462

Location	Latitude:45.875081,Longitude:-80.657877,Altitude:181.2,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:05/26/2015 11:44:20 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Organic fibric
Horizon 2	70.00	0.00	Clay
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Very poor
Effective Texture	Clay

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M22	Field Crew	TOM SHORNEY, JESSICA MENDOZA	636

Feature ID	ELC-N-M22(346)	Congruent Features	M22(19)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/26/2015 9:51:35 AM	Precipitation	0		
End Date	5/26/2015 1:12:26 PM	Cloud Cover	0.00		

Polygon Description 636

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 636

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	6 >0.2-0.5m	4 > 60%	Juniperus communis > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina >> mainthemum canadense
Floating & Submerged			

Stand Composition 636

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus banksiana > Betula papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	636

Community Age	Mature
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	534

Notes		Location	Latitude:45.880063,Longitude:-80.66043,Altitude:196.0,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:08:56 EDT
Dead			

Species	Tally	ID
Pinus banksiana	2.00	978

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		465
Location	Latitude:45.880062,Longitude:-80.660434,Altitude:196.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/26/2015 01:10:26 EDT	Notes	Rock barren community
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Na
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA	639

Feature ID	ELC-A-M1(205)	Congruent Features	M01(178), M01(175)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/27/2015 8:49:46 AM	Precipitation	0		
End Date	5/27/2015 9:37:32 AM	Cloud Cover	20.00		

Polygon Description 639

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Forest

Stand Species 639

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides < Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Populous balsamea < fraxinus nigra
Shrub	3 >2-6m	3 25 - 60%	Corylus cornuta < prunus pennsylvanuca
Groundcover	6 >0.2-0.5m	4 > 60%	Erythromycin Americana > trillium Grandiflorum > aster macrophyllus
Floating & Submerged			

Stand Composition 639

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	A	R	N	N

Species Dominance <10	Acer rubrum > fraxinus nigra > populus tremulo
Species Dominance 10-24	Populous tremuloides > populus balsimefera
Species Dominance 25-50	Populous tremuloides
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	639

Community Age	
Ecosite	Dry-Fresh Poplar-White Birch Deciduous Forest Ecos
Ecosite Code	FOD3
Vegetation Type	Dry-Fresh Poplar Deciduous Forest Type
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	537

Notes

Location

Latitude:45.889953,Longitude:-80.564314,Altitude:197.9,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/27/2015 09:33:21 EDT



Dead 3.00

Species	Tally	ID
Populous balsamea	7.00	981
Populous tremuloides	3.00	984
Fraxinus nigra	2.00	987

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		468
Location	Latitude:45.889894,Longitude:-80.564219,Altitude:188.6,Speed:0.35496667,Accuracy:3.6,Provider:gps,Time:05/27/2015 09:05:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	0.00
Slope Aspect (deg)	10.00	Gley	0.00
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	0.00	Organic humic
Horizon 2	20.00		Sandy loam
Horizon 3	75.00	12.00	Medium sand
Horizon 4	100.00		Sandy clay loam

% Surface Stone	11.00
Moisture Regime	Fresh
Drainage	Well
Effective Texture	Sandy clay loam

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA	642

Feature ID	ELC-A-M1(181)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/27/2015 9:57:56 AM	Precipitation	0		
End Date	5/27/2015 10:28:30 AM	Cloud Cover	100.00		

Polygon Description 642

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Shrub
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Deciduous,Coniferous
Community	Barren

Stand Species 642

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	2 10 - 25%	Betula papyrifera
Shrub	4 >1-2m		Betula papyrifera > juniperus communis
Groundcover		3 25 - 60%	Deschampsia flexuosa > politic hum juniperinum > cladonia rangiferina
Floating & Submerged			

Stand Composition 642

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Betula papyrifera
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	642

Community Age	Young
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	540

Notes		Location	
		Latitude:45.889981,Longitude:-80.56343,Altitude:203.1,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:05/27/2015 10:18:45 EDT	
Dead			

Species	Tally	ID
Na		990

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		471
Location	Latitude:45.889999,Longitude:-80.563539,Altitude:198.9,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:05/27/2015 10:02:29 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	2.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	90.00	Sand
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY , NATALIYA SIMONOVA	645

Feature ID	ELC-A-M1(179)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	5/27/2015 10:53:45 AM	Precipitation	0		
End Date	5/27/2015 11:26:48 AM	Cloud Cover	100.00		

Polygon Description 645

System	Aquatic
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Floating-LVD,Graminoid,Coniferous
Community	Marsh

Stand Species 645

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Betula papyrifera > pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Betula papyrifera > pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	3 25 - 60%	Typha latifolia > calamagrostis canadensis > polytrichum juniperinum
Floating & Submerged		1 0% - 10%	Nymphaea odorata

Stand Composition 645

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Betula papyrifera
Species Dominance 10-24	Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 645

Community Age	
Ecosite	Mineral shallow marsh ecosite
Ecosite Code	MAS2
Vegetation Type	Cattail Mineral shallow marsh type
Vegetation Type Code	MAS2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 543

Notes		Location	Latitude:45.889817,Longitude:-80.562635,Altitude:211.7,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:05/27/2015 11:25:56 EDT
Dead			

Species	Tally	ID
Na		993

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		474
Location	Latitude:45.889817,Longitude:-80.562596,Altitude:209.5,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/27/2015 11:12:14 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	5.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	70.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	0.00	Organic fibric
Horizon 2	20.00	70.00	Sandy loam
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Fresh
Drainage	Imperfect
Effective Texture	Sandy loam

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY , NATALIYA SIMONOVA	648

Feature ID	ELC-A-M1(182)	Congruent Features	M01(183), M01(189)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	5/27/2015 11:36:10 AM	Precipitation	0		
End Date	5/27/2015 12:02:29 PM	Cloud Cover	100.00		

Polygon Description 648

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Deciduous,Coniferous
Community	Barren

Stand Species 648

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	1 0% - 10%	Acer rubra > populus tremuloides > Quercus rubra
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina > polytrichum juniperinum
Floating & Submerged			

Stand Composition 648

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Acer rubrum = populus tremuloides = Quercus rub
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	648

Community Age	Mature
Ecosite	Acidic Shrub Rock Barren Ecosite
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren Type
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	546

Notes		Location	
		Latitude:45.889908,Longitude:-80.561834,Altitude:217.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/27/2015 12:02:45 EDT	
Dead			

Species	Tally	ID
Na	0.00	996

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		477
Location	Latitude:45.889904,Longitude:-80.561839,Altitude:218.6,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/27/2015 11:58:49 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	0.00
Slope Aspect (deg)	8.00	Gley	0.00
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	30.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very Rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA	651

Feature ID	ELC-A-M1(187)	Congruent Features	M01(204)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	4		
Start Date	5/27/2015 12:09:01 PM	Precipitation	0		
End Date	5/27/2015 1:09:10 PM	Cloud Cover	100.00		

Polygon Description 651

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Deciduous
Community	Forest

Stand Species 651

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer saccharum > acer rubrum
Sub Canopy	2 >6-25m	3 25 - 60%	Acer saccharum > acer rubrum
Shrub	3 >2-6m	2 10 - 25%	Acer spicatum = ostrya virginiana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Erythromycin Americana > mainthemum canadense
Floating & Submerged			

Stand Composition 651

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Acer saccharum > ostrya virginiana >
Species Dominance 10-24	Acer saccharum > acer rubrum
Species Dominance 25-50	Acer saccharum = acer rubrum = Quercus macroc
Species Dominance >50	Acer rubrum

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	651

Community Age	
Ecosite	Fresh-moist sugar maple deciduous forest ecosite
Ecosite Code	FOD6
Vegetation Type	Fresh-moist sugar maple - hardwood deciduous fore
Vegetation Type Code	FOD6-5
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	549

Notes		Location	Latitude:45.889907,Longitude:-80.561038,Altitude:201.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/27/2015 01:03:24 EDT
Dead			



Species	Tally	ID
Acer saccharum	6.00	999
Quercus macrocarpa	2.00	1002
Acer rubrum	1.00	1005

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		480
Location	Latitude:45.88991,Longitude:-80.560984,Altitude:206.5,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/27/2015 12:48:07 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	70.00
Slope Aspect (deg)	11.00	Gley	0.00
Slope Percent	5.00	Water Table	50.00
Slope Length (m)	100.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	8.00	0.00	Organic humic
Horizon 2	25.00	15.00	Very fine sand
Horizon 3	70.00	30.00	Medium sand
Horizon 4	90.00		Sandy loam

% Surface Stone	0.00
Moisture Regime	Very fresh
Drainage	Moderate well
Effective Texture	Fine sand

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA	654

Feature ID	ELC-A-M1(185)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	5/27/2015 1:40:09 PM	Precipitation	0		
End Date	5/27/2015 2:05:48 PM	Cloud Cover	70.00		

Polygon Description 654

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD,Graminoid,Bryophyte
Community	Pond

Stand Species 654

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub			
Groundcover	6 >0.2-0.5m	1 0% - 10%	Carex sp = calamagrostis canadensis
Floating & Submerged		3 25 - 60%	Nuphar variegatum > nymphaea odorata

Stand Composition 654

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	R	O	O	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	654

Community Age	Mid-Age
Ecosite	Floating - leaved shallow aquatic ecosite
Ecosite Code	SAF1
Vegetation Type	Water lily - bullhead lily floating - leaved shall
Vegetation Type Code	SAF1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	552

Notes

Location



Dead 2.00

Species	Tally	ID
Na		1008

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		483
Location	Latitude:45.890138,Longitude:-80.558506,Altitude:183.9,Speed:0.06173333,Accuracy:2.4,Provider:gps,Time:05/27/2015 01:54:54 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Organic fibric
Horizon 2	80.00		Sandy clay
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Sandy clay

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M1	Field Crew	TOM SHORNEY, NATALIYA SIMONOVA	657

Feature ID	ELC-A-M1(186)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	5		
Start Date	5/27/2015 2:39:04 PM	Precipitation	0		
End Date	5/27/2015 2:58:23 PM	Cloud Cover	10.00		

Polygon Description 657

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Deciduous,Coniferous
Community	Barren

Stand Species 657

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum > pinus strobus > picea glauca
Sub Canopy	2 >6-25m	1 0% - 10%	Abies balsamea > thuja occidentalis
Shrub	6 >0.2-0.5m	2 10 - 25%	Vaccinium angustifolium
Groundcover	7 <0.2m	3 25 - 60%	Cladina rangiferina
Floating & Submerged			

Stand Composition 657

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Picea glauca > acer rubrum > Betula papyrifera
Species Dominance 10-24	Pinus strobus > abies balsimefera > picea glau
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		657
Community Age	Mature	
Ecosite	Acidic Treed Rock Barren	
Ecosite Code	RBT3	
Vegetation Type	Oak - red maple- pine basic treed rock barren type	
Vegetation Type Code	RBT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		555
Notes		Location
		Latitude:45.890062,Longitude:-80.557475,Altitude:187.5,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:05/27/2015 02:57:31 EDT
Dead	2.00	



Species	Tally	ID
Picea glauca	3.00	1011
Pinus strobus	1.00	1014

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		486
Location	Latitude:45.890061,Longitude:-80.557487,Altitude:187.6,Speed:0.12861112,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:55:23 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	2.00	0.00	Sand
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Sand

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M20	Field Crew	OLGA HROPACH SARAH RICHER	660

Feature ID	ELC-N-M20(396)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	5		
Start Date	5/27/2015 9:02:19 AM	Precipitation	0		
End Date	5/27/2015 10:24:51 AM	Cloud Cover	95.00		

Polygon Description 660

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Coniferous
Community	Barren

Stand Species 660

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	Picea mariana > Pinus strobus
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana>Pinus strobus>>Betula papyrifera
Shrub	4 >1-2m	4 > 60%	Juniperus communis > Betula papyrifera
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen sp.>Moss sp.>Vaccinum angustifolium>Arctostaphylos uva-ursi>Carex sp.
Floating & Submerged			

Stand Composition 660

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana Betula papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		660
Community Age	Mature	
Ecosite	Acidic Treed Rock Barren	
Ecosite Code	RBT3	
Vegetation Type	Jack Pine Acidic Treed Rock Barren	
Vegetation Type Code	RBT3-2	
Inclusion		
Inclusion Code		
Complex	Black Spruce Treed Bog Type	
Complex Code	BOT1-1	

Soil Description

Pit ID	1	489

Location	Latitude:45.887717,Longitude:-80.666724,Altitude:187.8,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:05/27/2015 09:19:15 EDT	Notes	Soil pit not taken because on rock barren
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	
Slope Aspect (deg)	3.00	Gley	
Slope Percent	1.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		3.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	N/A
Drainage	N/A
Effective Texture	N/A

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M23	Field Crew	SARAH RICHER OLGA HROPACH	663

Feature ID	ELC-N-M23(448)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	5/27/2015 12:08:14 PM	Precipitation	0		
End Date	5/27/2015 12:30:53 PM	Cloud Cover	60.00		

Polygon Description 663

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 663

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Picea mariana>Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana>Picea mariana
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > Aralia nudicalus>Populus tremuloides>Prunus pumilla
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen sp. > moss sp. > Polygonum cilinode> Comandra umbellata
Floating & Submerged			

Stand Composition 663

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Pinus banksiana Picea mariana
Species Dominance 10-24	Pinus banksiana, Betula papyrifera
Species Dominance 25-50	Pinus strobus Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	663
Community Age	Mature
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M23	Field Crew	OLGA HROPACH SARAH RICHER	666

Feature ID	ELC-N-M23(448A)	Congruent Features	M23(20)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	5/27/2015 12:55:52 PM	Precipitation	0		
End Date	5/27/2015 1:38:41 PM	Cloud Cover	20.00		

Polygon Description 666

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 666

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	2 >6-25m	1 0% - 10%	Picea mariana
Shrub	3 >2-6m	3 25 - 60%	Alnus incana >>Picea mariana
Groundcover	5 >0.5-1m	4 > 60%	Carex lacustris>> Onoclea sensibillis> maianthemum canadense > Impatiens capensis
Floating & Submerged			

Stand Composition 666

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		666
Community Age	Mid-Age	
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT2	
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	492

Location	Latitude:45.880929,Longitude:-80.667001,Altitude:184.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/27/2015 01:17:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	25.00
Slope Aspect (deg)	1.00	Gley	
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Organic
Horizon 2	15.00	7.00	Silt loam
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Well(3)
Effective Texture	Silt loam

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M23	Field Crew	OLGA HROPACH SARAH RICHER	669

Feature ID	ELC-N-M23(448B)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	5/27/2015 2:06:46 PM	Precipitation	0		
End Date	5/27/2015 2:39:42 PM	Cloud Cover	0.00		

Polygon Description 669

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Forest

Stand Species 669

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	Populus tremuloides>Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana>Populus tremuloides>Abies balsamea>Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta >>Abies balsamea
Groundcover	5 >0.5-1m	3 25 - 60%	Aster macrophyllus>Maianthemum canadense=Aralia nudicaulis>Abies balsamea>Clintonia borealis
Floating & Submerged			

Stand Composition 669

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	
Standing Snags	O	O	R	N
Deadfall / Logs	A	R	N	N

Species Dominance <10	Betula papyrifera Abies balsamea
Species Dominance 10-24	Populus tremuloides
Species Dominance 25-50	Populus tremuloides Picea mariana
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		669
Community Age	Mature	
Ecosite	Fresh – Moist Poplar – White Birch Mixed Forest	
Ecosite Code	FOM8	
Vegetation Type	Fresh – Moist Poplar Mixed Forest Type	
Vegetation Type Code	FOM8-1	
Inclusion	Speckled Alder Mineral Deciduous Thicket Swamp	
Inclusion Code	SWT2-1	
Complex		
Complex Code		

Tree Tally 558

Notes

Location

Latitude:45.881465,Longitude:-80.666726,Altitude:181.4,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/27/2015 02:32:49 EDT



Dead 2.00

Species	Tally	ID
Populus tremuloides	4.00	1017
Picea mariana	3.00	1020
Abies balsamea	2.00	1023

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		495
Location	Latitude:45.881485,Longitude:-80.666769,Altitude:176.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/27/2015 02:24:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	24.00
Slope Aspect (deg)	1.00	Gley	
Slope Percent	2.00	Water Table	40.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	1.00	Organic
Horizon 2	15.00		Silty fine sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Imperfect
Effective Texture	Sifs

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M45	Field Crew	KRISTAN WASHBURN AND ADAM MCCLELLAND	672

Feature ID	ELC-N-M45(229)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	6		
Start Date	5/27/2015 9:40:15 AM	Precipitation	0		
End Date	5/27/2015 10:24:00 AM	Cloud Cover	75.00		

Polygon Description 672

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Bryophyte,Coniferous
Community	Fen

Stand Species 672

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina
Sub Canopy	4 >1-2m	3 25 - 60%	Larix laricina
Shrub	6 >0.2-0.5m	2 10 - 25%	Kalmia angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp. > Carex sp.
Floating & Submerged			

Stand Composition 672

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	672

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	561

Notes		Location	
		Latitude:45.871576,Longitude:-80.703011,Altitude:185.7,Speed:0.12346666,Accuracy:1.5,Provider:gps,Time:05/27/2015 10:01:19 EDT	
Dead	1.00		

Species	Tally	ID
Larix laricina	1.00	1026

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		498
Location	Latitude:45.871573,Longitude:-80.703023,Altitude:185.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/27/2015 10:02:37 EDT	Notes	Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	0.00	Of (organic fibric)
Horizon 2	90.00		Om (organic mesic)
Horizon 3	115.00		Oh (organic humic)
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Organic

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M45	Field Crew	KRISTAN WASHBURN, ADAM MCCLELLAND	675

Feature ID	ELC-N-M45(326)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	6		
Start Date	5/27/2015 10:38:49 AM	Precipitation	0		
End Date	5/27/2015 10:57:02 AM	Cloud Cover	95.00		

Polygon Description 675

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 675

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Cladina sp. > polytrichum sp.
Floating & Submerged		0 None	

Stand Composition 675

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 675

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	Tamarack - black spruce organic coniferous swamp
Complex Code	SWC4-1

Tree Tally 564

Notes

Dead 1.00

Location

Latitude:45.87146,Longitude:-80.701558,Altitude:188.7,Speed:0.4990111,Accuracy:1.75,Provider:gps,Time:05/27/2015 10:54:36 EDT



Species	Tally	ID
None in	0.00	1029

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M45	Field Crew	KRISTAN WASHBURN, ADAM MCCLELLAND	678

Feature ID	ELC-N-M45(30)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	6		
Start Date	5/27/2015 11:21:58 AM	Precipitation	0		
End Date	5/27/2015 12:01:51 PM	Cloud Cover	90.00		

Polygon Description 678

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte
Community	Fen

Stand Species 678

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Larix laricina
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Myrica gale
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		1 0% - 10%	Myriophyllum sp.

Stand Composition 678

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		678
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Sweet gale shrub fen	
Vegetation Type Code	FES1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	501

Location	Latitude:45.871144,Longitude:-80.700433,Altitude:185.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/27/2015 11:39:20 EDT	Notes	Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M45	Field Crew	KRISTAN WASHBURN, ADAM MCCLELLAND	681

Feature ID	ELC-N-M45(475)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	5/27/2015 12:21:39 PM	Precipitation	0		
End Date	5/27/2015 1:12:54 PM	Cloud Cover	70.00		

Polygon Description 681

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Bryophyte,Coniferous
Community	Swamp

Stand Species 681

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana
Shrub	5 >0.5-1m	3 25 - 60%	Kalmia angustifolia = Chamaedaphne calyculata = myrica gale
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 681

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Larix laricina > Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 681

Community Age	Mid-Age
Ecosite	Tamarack - black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack - black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 567

Notes

Location

Latitude:45.870371,Longitude:-80.699545,Altitude:185.6,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/27/2015 12:41:16 EDT



Dead 1.00

Species	Tally	ID
Picea mariana	7.00	1032
Larix laricina	2.00	1035

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		504
Location	Latitude:45.870358,Longitude:-80.699542,Altitude:184.9,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/27/2015 12:51:50 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	30.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	85.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Of
Horizon 2	85.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M2	Field Crew	JASON NORONHA. AYESHA PRASAD	687

Feature ID	ELC-A-M2(189)	Congruent Features	M15(191), M15(192), M15(199), M15(198), M2(202), M2(195), M2(190), M2(202)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	4		
Start Date	5/27/2015 12:14:07 PM	Precipitation	0		
End Date	5/27/2015 12:51:21 PM	Cloud Cover	50.00		

Polygon Description 687

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Valley Slope
Plant Form	Mixed
Community	Barren

Stand Species 687

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Acer saccharum <pinus strobus <Tsuga canadensis
Sub Canopy	2 >6-25m	1 0% - 10%	Acer saccharum
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis <Acer rubrum <Rubus idaeus <Quercus rubra <Rubus canadensis <Vaccinium angustifolium <Acer saccharum <Abies balsamea <Alnus incana <Prunus virginiana <Diervilla Lonicera <Coptis rubra <Picea glauca
Groundcover	5 >0.5-1m	2 10 - 25%	Apocynum androsaemifolium<Accilium millifolium<Fragaria virginiana <Maianthemum canadense <Taraxacum officinale<Trientalis borealis <Polygonum cilanode<Gaylussacia baccata
Floating & Submerged		0 None	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Composition 687

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Acer rubrum <Quercus rubra <Picea glauca
Species Dominance 10-24	Acer saccharum
Species Dominance 25-50	
Species Dominance >50	

Stand Classification 687

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 576

Notes

Location

Latitude:45.890071,Longitude:-80.555653,Altitude:200.7,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:05/27/2015 12:32:12 EDT



Dead

Species	Tally	ID
Na		1044

Tree Tally 579

Notes

Location

Latitude:45.890294,Longitude:-80.553952,Altitude:201.5,Speed:0.08231111,Accuracy:2.4,Provider:gps,Time:05/27/2015 01:04:01 EDT



Dead 1.00

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Species	Tally	ID
Tsuga canadensis	1.00	1047
Pinus strobus	1.00	1050
Tree Tally		582

Notes

Dead

Location

Latitude:45.890333,Longitude:-80.553344,Altitude:202.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/27/2015 01:52:21 EDT



Species	Tally	ID
Na		1053
Tree Tally		585

Notes

Dead

Location

Latitude:45.890464,Longitude:-80.55048,Altitude:200.3,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/27/2015 02:56:08 EDT



Species	Tally	ID
Na		1056
Tree Tally		588

Notes

Dead

Location

Latitude:45.890696,Longitude:-80.545916,Altitude:185.8,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/27/2015 03:38:17 EDT



Species	Tally	ID
NA		1059

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M2	Field Crew	JASON NORONHA. AYESHA PRASAD	690

Feature ID	ELC-A-M2(204)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/27/2015 1:55:28 PM	Precipitation	0		
End Date	5/27/2015 4:00:28 PM	Cloud Cover	50.00		

Polygon Description 690

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Forest

Stand Species 690

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer saccharum <Quercus rubra <Populus tremuloides <pinus strobus <Thuja occidentalis <Populus grandidentata <Betula papyrifera
Sub Canopy	2 >6-25m	4 > 60%	Acer saccharum <Populus tremuloides <Quercus rubra <Abies balsamea <Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Alnus incana <Acer saccharum <Ribes cynosbati <Betula papyrifera <Viburnum cassinoides <Vaccinium angustifolium <Cornus alterni<Ribes glandulosum <Abies balsamea <Amelanchier laevis<Acer rubrum <Viburnum asafolium<Pinus strobus <Prunus serotina
Groundcover	5 >0.5-1m	3 25 - 60%	Aralia nudicaulis <pteridium aquilimum< gaulfera procumbens<cornus canadensis<mainthemum canadense<Medeola virginiana <Allium tricoccum <Mitchella repens <Clintonia borealis <Lycopodium dendroideum <Lycopodium annotinum <Coptis trifolia <Solidago canadens
Floating & Submerged		0 None	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Composition

690

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	O
Standing Snags	O	O	O	N
Deadfall / Logs	O	O	O	N

Species Dominance <10	Acer saccharum <Populus tremuloides
Species Dominance 10-24	Acer saccharum <Populus tremuloides
Species Dominance 25-50	Acer saccharum <Quercus rubra <Populus tremuloides
Species Dominance >50	Pinus strobus

Stand Classification

690

Community Age	Mid-Age
Ecosite	Fresh-Moist Sugar Maple Deciduous Forest
Ecosite Code	FOD6
Vegetation Type	Fresh-Moist Sugar Maple-Hardwood Deciduous Forest
Vegetation Type Code	FOD6-5
Inclusion	
Inclusion Code	
Complex	
Complex Code	

ELC - WEC

Tree Tally 591

Notes		Location	
		Latitude:45.890308,Longitude:-80.552701,Altitude:199.0,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:18:32 EDT	
Dead			

Species	Tally	ID
Thuja occidentalis	3.00	1062
Acer saccharum	1.00	1065
Picea glauca	1.00	1068

Tree Tally 594

Notes		Location	
		Latitude:45.890326,Longitude:-80.551178,Altitude:201.5,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:43:29 EDT	
Dead	1.00		

Species	Tally	ID
Acer saccharum	2.00	1071

Soil Description

Pit ID	1	513

ELC - WEC

Location	Latitude:45.890322,Longitude:-80.552787,Altitude:200.2,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:06:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	17.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	17.00	0.00	Of
Horizon 2	120.00		Scl
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	Scl

Pit ID	2	516

Execution Time	8/8/2015 7:17:45 AM	Filter Start Date	5/1/2015
		Filter End Date	5/31/2015

ELC - WEC

Location	Latitude:45.890362,Longitude:-80.551391,Altitude:201.5,Speed:0.72536665,Accuracy:2.1,Provider:gps,Time:05/27/2015 02:33:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	10.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	2.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Cl
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	4
Effective Texture	Cl

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M2	Field Crew	JASON NORONHA. AYESHA PRASAD	693

Feature ID	ELC-A-M2(203)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/27/2015 2:39:49 PM	Precipitation	0		
End Date	5/27/2015 3:26:02 PM	Cloud Cover	40.00		

Polygon Description 693

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Mixed
Community	Swamp

Stand Species 693

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Acer rubrum<Picea mariana <Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Alnus incana<Pinus strobus <Acer saccharum
Shrub	6 >0.2-0.5m	4 > 60%	Kalmia Chamaedaphne<Abies balsamea <Nemopanthus mucronatus <Vaccinium angustifolium <Alnus incana <Viburnum cassinoides
Groundcover	5 >0.5-1m	3 25 - 60%	Sphagnum spp<Maianthemum canadense <Trientalis borealis <Osmunda Regulus
Floating & Submerged		0 None	

Stand Composition 693

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	693

Community Age	
Ecosite	Maple-organic mixed swamp
Ecosite Code	SWM5
Vegetation Type	Red maple-conifer organic mixed swamp
Vegetation Type Code	SWM5 -1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	597

Notes		Location	
		Latitude:45.890587,Longitude:-80.549129,Altitude:195.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/27/2015 03:17:23 EDT	
Dead			

Species	Tally	ID
Na		1074

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		519
Location	Latitude:45.890585,Longitude:-80.549094,Altitude:195.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/27/2015 03:20:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Oh
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	A-M2	Field Crew	JASON NORONHA. AYESHA PRASAD	696

Feature ID	ELC-A-M2(197)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	5/27/2015 3:38:21 PM	Precipitation	0		
End Date	5/27/2015 4:00:05 PM	Cloud Cover	40.00		

Polygon Description 696

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Submerged,Floating-LVD
Community	Pond

Stand Species 696

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover		0 None	
Floating & Submerged			Potamogeton spp<Brasenia schreberi <Potentilla palustris <Nymphaea nupharba

Stand Composition 696

	<10	10-24	25-50	>50
Size Class Analysis				
Standing Snags	R	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	696

Community Age	Mid-Age
Ecosite	Submitted shallow aquatic
Ecosite Code	SAS1
Vegetation Type	Pondweed Submerged Shallow Aquatic Type
Vegetation Type Code	SAS1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	600

Notes		Location	
		Latitude:45.890689,Longitude:-80.545896,Altitude:185.7,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/27/2015 03:40:29 EDT	
Dead	1.00		

Species	Tally	ID
Na		1077

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M40	Field Crew	JULIE & KASEY	708

Feature ID	ELC-N-M40(284)	Congruent Features	M40(42), M40(287a), M40(287b)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/27/2015 8:52:14 AM	Precipitation	0		
End Date	5/27/2015 9:04:37 AM	Cloud Cover	60.00		

Polygon Description 708

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 708

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinuban >> picemar
Sub Canopy	4 >1-2m	1 0% - 10%	Pinuban
Shrub	6 >0.2-0.5m	3 25 - 60%	Junicom > vaccang
Groundcover	7 <0.2m	3 25 - 60%	Lichen = moss > descces
Floating & Submerged			

Stand Composition 708

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	708

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	Deciduous shrub bog
Inclusion Code	BOS1
Complex	Black spruce treed bog
Complex Code	BOT1-1

Tree Tally	612

Notes		Location	Latitude:45.880611,Longitude:-80.692388,Altitude:185.2,Speed:0.10803334,Accuracy:1.5,Provider:gps,Time:05/27/2015 09:04:44 EDT
Dead			



Species	Tally	ID
Na		1092

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M40	Field Crew	KASEY & JULIE	711

Feature ID	ELC-N-M40(256)	Congruent Features	M40(257), M40(258), M40(259), M40(260)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/27/2015 9:23:43 AM	Precipitation	0		
End Date	5/27/2015 9:45:52 AM	Cloud Cover	90.00		

Polygon Description 711

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 711

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picemar >> larilar >> pinustr
Sub Canopy	3 >2-6m	3 25 - 60%	Picemar >> pinustr
Shrub	5 >0.5-1m	4 > 60%	Picemar > kalmang = ledugro > vaccang
Groundcover	7 <0.2m	4 > 60%	Sphagnum >> maiatri >> cypracu
Floating & Submerged		0 None	

Stand Composition 711

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picemar >> larilar >> pinustr
Species Dominance 10-24	Picemar
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	711

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-3
Inclusion	Deciduous shrub bog
Inclusion Code	BOS1
Complex	
Complex Code	

Tree Tally	615

Notes		Location	
		Latitude:45.88012,Longitude:-80.691238,Altitude:187.7,Speed:0.0,Accuracy:1.5,Provider:gps,Time:05/27/2015 09:41:22 EDT	
Dead			

Species	Tally	ID
Picemar	4.00	1095

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		525
Location	Latitude:45.880114,Longitude:-80.691196,Altitude:188.5,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/27/2015 09:43:04 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	72.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	30.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Na
Drainage	Na
Effective Texture	Of

Additional Notes

Sphagnum humid throughout



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M40	Field Crew	JULIE & KASEY	714

Feature ID	ELC-N-M40(287)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	5/27/2015 12:04:06 PM	Precipitation	0		
End Date	5/27/2015 12:49:07 PM	Cloud Cover	70.00		

Polygon Description 714

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Forb,Bryophyte,Mixed
Community	Forest

Stand Species 714

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Poputre > betupap > picemar > picegla
Sub Canopy	3 >2-6m	3 25 - 60%	Poputre > acerrub > nemomuc > betupap
Shrub	5 >0.5-1m	2 10 - 25%	Abiebal > pteraqu > vibucas > acerrub
Groundcover	7 <0.2m	4 > 60%	Sphagnum > grass sp > corncan > maiacan
Floating & Submerged		0 None	

Stand Composition 714

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification 714

Community Age	Young
Ecosite	Fresh moist poplar white birch mixed forest
Ecosite Code	FOM8
Vegetation Type	Fresh moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 618

Notes

Dead 2.00

Location

Latitude:45.877211,Longitude:-80.68682,Altitude:183.3,Speed:0.030866666,Accuracy:3.0,Provider:gps,Time:05/27/2015 12:37:53 EDT



Species	Tally	ID
Betula papyrifera	1.00	1098
Picea mariana	2.00	1101
Picea glauca	1.00	1104
Pinus strobus	1.00	1107
Populus tremuloides	2.00	1110

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		528
Location	Latitude:45.877247,Longitude:-80.686857,Altitude:185.4,Speed:0.05658889,Accuracy:2.7,Provider:gps,Time:05/27/2015 12:28:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	15.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	7.00	0.00	Of
Horizon 2	15.00	0.00	Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Na
Drainage	Na
Effective Texture	Na

Additional Notes

Community edging creek between 2 rock barrens, sloped on both sides



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	JULIE & KASEY	717

Feature ID	ELC-N-M31(281)	Congruent Features	M31(283), M31(282), M31(458)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/27/2015 2:06:07 PM	Precipitation	0		
End Date	5/27/2015 2:23:56 PM	Cloud Cover	0.00		

Polygon Description 717

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 717

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinuban > pinustr
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban >> Pinustro
Shrub	5 >0.5-1m	3 25 - 60%	Junicom >> vaccang > pinuban
Groundcover	7 <0.2m	4 > 60%	Lichen = moss > grass sp
Floating & Submerged		0 None	

Stand Composition 717

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

ELC - WEC

Stand Classification	717

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	621

Notes		Location	Latitude:45.884265,Longitude:-80.6773,Altitude:166.1,Speed:0.051444445,Accuracy:8.7,Provider:gps,Time:05/27/2015 02:23:52 EDT
Dead			



Species	Tally	ID
Pinuban	1.00	1113

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & JULIE	720

Feature ID	ELC-N-M31(50)	Congruent Features	M4(25)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/27/2015 2:26:34 PM	Precipitation	0		
End Date	5/27/2015 2:43:34 PM	Cloud Cover	5.00		

Polygon Description 720

System	Aquatic
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD,Graminoid,Forb
Community	Pond

Stand Species 720

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Snag
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Careutr > chamcal
Groundcover		0 None	
Floating & Submerged		3 25 - 60%	Poto sp > Myriexa

Stand Composition 720

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	N	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

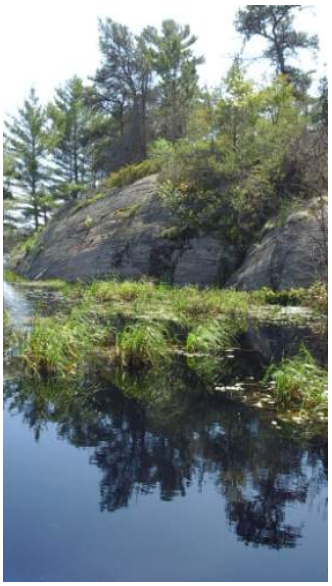
Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	720
Community Age	Young
Ecosite	Mixed shallow aquatic
Ecosite Code	SAM1
Vegetation Type	Pondweed mixed shallow aquatic
Vegetation Type Code	SAM1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA	738

Feature ID	ELC-N-M31(167)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	5/29/2015 8:42:42 AM	Precipitation	0		
End Date	5/29/2015 9:06:44 AM	Cloud Cover	90.00		

Polygon Description 738

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 738

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Larilar = picemar >> pinustr
Sub Canopy	3 >2-6m	3 25 - 60%	Larilar = picemar >> pinustr
Shrub	5 >0.5-1m	4 > 60%	Chamcal > calacan > ledugro
Groundcover	7 <0.2m	4 > 60%	Sphagnum >> maiatri
Floating & Submerged		0 None	

Stand Composition 738

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification		738
Community Age	Mature	
Ecosite	Tamarack - black spruce organic coniferous Swamp	
Ecosite Code	SWC4	
Vegetation Type	Black Spruce Organic Coniferous Swamp Type	
Vegetation Type Code	SWC4-3	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 636

Notes		Location	
		Latitude:45.88388,Longitude:-80.68329,Altitude:183.7,Speed:0.10803334,Accuracy:1.5,Provider:gps,Time:05/29/2015 08:57:54 EDT	
Dead			

Species	Tally	ID
Picemar	3.00	1140

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		543
Location	Latitude:45.883875,Longitude:-80.683293,Altitude:183.7,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/29/2015 08:59:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	302.00	Gley	
Slope Percent	5.00	Water Table	25.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	80.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	30.00	0.00	Of
Horizon 2	80.00		Om
Horizon 3	0.00		
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA	741

Feature ID	ELC-N-M31(166)	Congruent Features	M31(164)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/29/2015 9:13:44 AM	Precipitation	0		
End Date	5/29/2015 9:27:35 AM	Cloud Cover	70.00		

Polygon Description 741

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 741

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Larilar > picemar
Sub Canopy	3 >2-6m	3 25 - 60%	Larilar > picemar
Shrub	5 >0.5-1m	3 25 - 60%	Ledugro
Groundcover	7 <0.2m	4 > 60%	Sphagnum >> maiatri
Floating & Submerged		0 None	

Stand Composition 741

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	741

Community Age	Mature
Ecosite	Tamarack - black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack - black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	639

Notes		Location	Latitude:45.883091,Longitude:-80.681997,Altitude:186.8,Speed:0.34982222,Accuracy:1.5,Provider:gps,Time:05/29/2015 09:22:23 EDT
Dead			



Species	Tally	ID
Larilar	5.00	1143

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		546
Location	Latitude:45.883189,Longitude:-80.68205,Altitude:186.1,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/29/2015 09:24:06 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	89.00	Gley	
Slope Percent	3.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	50.00		Om
Horizon 3	120.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA	744

Feature ID	ELC-N-M31(41)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/29/2015 9:46:57 AM	Precipitation	0		
End Date	5/29/2015 10:21:36 AM	Cloud Cover	40.00		

Polygon Description 744

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Deciduous
Community	Marsh

Stand Species 744

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Ulnuinc >> spiralb
Groundcover	6 >0.2-0.5m	4 > 60%	Carelac > careaqu
Floating & Submerged		0 None	

Stand Composition 744

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification

744

Community Age	Young
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite
Ecosite Code	SWT2
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

549

Location	Latitude:45.883565,Longitude:-80.680277,Altitude:181.4,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:05/29/2015 09:47:41 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	69.00	Gley	
Slope Percent	10.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Oh
Horizon 2	50.00		cS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very rapid
Drainage	1
Effective Texture	cS

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA	747

Feature ID	ELC-N-M31(281a)	Congruent Features	M31(37)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/29/2015 10:38:52 AM	Precipitation	0		
End Date	5/29/2015 11:24:30 AM	Cloud Cover	50.00		

Polygon Description 747

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Forest

Stand Species 747

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Poputre > picegla > betupap = pinustr
Sub Canopy	2 >6-25m	4 > 60%	Betupap > picegla > poputre
Shrub	3 >2-6m	3 25 - 60%	cornrac > corycor
Groundcover	7 <0.2m	4 > 60%	Rubus sp > corncan
Floating & Submerged		0 None	

Stand Composition 747

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	R
Standing Snags	R	O	R	N
Deadfall / Logs	A	A	O	R

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	747

Community Age	
Ecosite	fresh-moist poplar - white birch mixed forest type
Ecosite Code	FOM8
Vegetation Type	Fresh-moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	642

Notes		Location	
		Latitude:45.884137,Longitude:-80.678811,Altitude:179.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/29/2015 11:12:24 EDT	
Dead	2.00		

Species	Tally	ID
Picegla	4.00	1146
Fraxnig	1.00	1149
Poputre	1.00	1152
Betupap	2.00	1155

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		552
Location	Latitude:45.884099,Longitude:-80.678741,Altitude:176.2,Speed:0.087455556,Accuracy:1.75,Provider:gps,Time:05/29/2015 10:42:16 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	30.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Oh
Horizon 2	30.00		fSL
Horizon 3	60.00		SiCL
Horizon 4	120.00	0.00	SiC

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	SiCL

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA

750

Feature ID	ELC-N-M31(40)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	5/29/2015 11:46:16 AM	Precipitation	0		
End Date	5/29/2015 12:03:55 PM	Cloud Cover	50.00		

Polygon Description

750

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species

750

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larilar
Sub Canopy	4 >1-2m	1 0% - 10%	Larilar
Shrub	5 >0.5-1m	4 > 60%	Chamcor > kalmpol
Groundcover	7 <0.2m	4 > 60%	Sphagnum > viccoxy > eriovir
Floating & Submerged		0 None	

Stand Composition

750

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	750

Community Age	Mid-Age
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf - forb shrub fen
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	645

Notes		Location	
		Latitude:45.88362,Longitude:-80.676376,Altitude:186.5,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:05/29/2015 11:59:15 EDT	
Dead	2.00		

Species	Tally	ID
Na		1158

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		555
Location	Latitude:45.883626,Longitude:-80.676363,Altitude:186.6,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/29/2015 11:58:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	75.00	Gley	
Slope Percent	25.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	50.00		Om
Horizon 3	120.00		Om
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes



Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M31	Field Crew	KASEY & NATALYIA	753

Feature ID	ELC-N-M31(39)	Congruent Features	M31(38)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	5/29/2015 12:15:45 PM	Precipitation	0		
End Date	5/29/2015 12:37:00 PM	Cloud Cover	50.00		

Polygon Description 753

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Mixed
Community	Swamp

Stand Species 753

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinustr >poputre > betupap > picemar
Sub Canopy	3 >2-6m	3 25 - 60%	Picemar > betupap > acerrub > poputre
Shrub	5 >0.5-1m	4 > 60%	Nemomak > ulnuinc
Groundcover	7 <0.2m	4 > 60%	Sphagnum > maincan
Floating & Submerged		0 None	

Stand Composition 753

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	R
Standing Snags	R	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Stand Classification	753

Community Age	Mid-Age
Ecosite	Birch - poplar mineral mixed swamp
Ecosite Code	SWM3
Vegetation Type	Birch - conifer mineral mixed swamp
Vegetation Type Code	SWM3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	648

Notes		Location	
		Latitude:45.882809,Longitude:-80.675563,Altitude:185.6,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:05/29/2015 12:25:33 EDT	
Dead	1.00		

Species	Tally	ID
Pinustr	3.00	1161
Betupap	3.00	1164

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Soil Description

Pit ID	1		558
Location	Latitude:45.882839,Longitude:-80.675578,Altitude:183.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/29/2015 12:18:50 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	20.00	Gley	
Slope Percent	13.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	80.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Om
Horizon 2	80.00		cS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very rapid
Drainage	1
Effective Texture	cS

Additional Notes

Execution Time 8/8/2015 7:17:45 AM

Filter Start Date 5/1/2015

Filter End Date 5/31/2015

ELC - WEC

Map Number	N-M46	Field Crew	KRISTAN WASHBURN AMI ARSENAULT	756

Feature ID	ELC-N-M46(476)	Congruent Features	M46(316), M46(28), M46(317), M46(318), M46 (319), M46(320)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 9:36:40 AM	Precipitation	0		
End Date	6/1/2015 2:56:14 PM	Cloud Cover	10.00		

Polygon Description 756

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 756

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy			
Shrub			
Groundcover			
Floating & Submerged		0 None	

Stand Composition 756

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		756
Community Age	Mid-Age	
Ecosite	Acidic treed rock barren	
Ecosite Code	RBT3	
Vegetation Type	Jack pine acidic treed rock barren	
Vegetation Type Code	RBT3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M46	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	759

Feature ID	ELC-N-M46(235)	Congruent Features	M46(236), M46(88), M46(191), M46(237)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 9:52:52 AM	Precipitation	0		
End Date	6/1/2015 10:33:25 AM	Cloud Cover	10.00		

Polygon Description 759

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 759

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > larix laricina > pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > larix laricina > pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Kalmia angustifolium > chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 759

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana > pinus banksiana > larix laricin
Species Dominance 10-24	Picea mariana > pinus banksiana > larix laricin
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 759

Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC-4
Vegetation Type	Tamarack - black spice organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 651

Notes		Location	Latitude:45.86083,Longitude:-80.69914,Altitude:186.9,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:06/01/2015 10:11:50 EDT
Dead			



Species	Tally	ID
Pinus banksiana	3.00	1167
Picea mariana	1.00	1170

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		561
Location	Latitude:45.860759,Longitude:-80.698998,Altitude:184.1,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:06/01/2015 10:07:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	30.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	95.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	45.00	0.00	Of
Horizon 2	95.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M46	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	762

Feature ID	ELC-N-M46(234)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 11:21:18 AM	Precipitation	0		
End Date	6/1/2015 12:00:30 PM	Cloud Cover	25.00		

Polygon Description 762

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 762

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina > picea mariana > pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > picea mariana > pinus banksiana
Shrub	3 >2-6m	3 25 - 60%	Chamaedaphne calyculata > myrica gale > alnus incana
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 762

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina > picea mariana
Species Dominance 10-24	Larix laricina > picea mariana > pinus banksia
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		762
Community Age	Mid-Age	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES-1	
Vegetation Type	Leatherleaf - forb shrub fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		564
Pit ID	1	

Location	Latitude:45.858167,Longitude:-80.698354,Altitude:180.0,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/01/2015 11:33:18 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	105.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	105.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic fibric

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M46	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	765

Feature ID	ELC-N-M46(190)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 12:31:37 PM	Precipitation	0		
End Date	6/1/2015 1:16:25 PM	Cloud Cover	50.00		

Polygon Description 765

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 765

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > Acer rubrum > Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum > picea mariana
Shrub	3 >2-6m	2 10 - 25%	Vaccinium angustifolium > Viburnum cassinoides
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadensis > trientalis borealis > spagnum moss
Floating & Submerged		0 None	

Stand Composition 765

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana > Acer rubrum
Species Dominance 10-24	Picea mariana > betula papyr >pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 765

Community Age	Mid-Age
Ecosite	Fresh-Moist Poplar-White Birch Mixed Forest Ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh-Moist White Birch Mixed Forest Type
Vegetation Type Code	FOM8-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 654

Notes

Location

Latitude:45.858846,Longitude:-80.696554,Altitude:180.7,Speed:0.010288889,Accuracy:1.25,Provider:gps,Time:06/01/2015 12:52:01 EDT

Dead

Species	Tally	ID
Larix laricina	1.00	1173
Pinus banksiana	1.00	1176
Acer rubrum	1.00	1179
Acer rubrum	1.00	1233
Picea mariana	1.00	1236

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		594
Location	Latitude:45.858837,Longitude:-80.696588,Altitude:181.4,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/01/2015 12:58:24 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	100.00	H
Horizon 2	23.00	100.00	Ls
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	0
Drainage	Dry /very rapid
Effective Texture	Ls

Additional Notes

No ecosite fits dominate black spruce, maple, birch forest

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M35	Field Crew	JAMES AYESHA MIKE	768

Feature ID	ELC-N-M35(265)	Congruent Features	M35(264), M35(262), M35(168), M35(263), M35(169), M35 (224), M35(223), M35(25)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	6/1/2015 9:33:36 AM	Precipitation	0		
End Date	6/1/2015 10:03:14 AM	Cloud Cover	10.00		

Polygon Description 768

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Swamp

Stand Species 768

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana >>>Betula papyrifera =Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata >Gaylussacia baccata
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum trifoliata >>Oxycoccos macrocarpon
Floating & Submerged			

Stand Composition 768

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	768

Community Age	Mature
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Black Spruce Organic Coniferous Swamp Type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 657

Notes

Location: Latitude:45.858016,Longitude:-80.676985,Altitude:193.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/01/2015 10:02:38 EDT



Dead: 0.00

Species	Tally	ID
Picea mariana	8.00	1182
Pinus banksiana	2.00	1185

Tree Tally 660

Notes

Location: Latitude:45.857953,Longitude:-80.678086,Altitude:190.4,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/01/2015 10:28:50 EDT



Dead

Species	Tally	ID
Picea mariana	5.00	1188
Larix laricina	1.00	1191

Tree Tally 663

Notes

Location: Latitude:45.8618,Longitude:-80.67998,Altitude:181.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/01/2015 12:06:33 EDT



Dead: 0.00

Species	Tally	ID
Picea mariana	6.00	1194

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Tree Tally 666

Notes		Location	
		Latitude:45.861314,Longitude:-80.678853,Altitude:185.8,Speed:0.06173333,Accuracy:1.25,Provider:gps,Time:06/01/2015 12:48:06 EDT	
Dead			

Species	Tally	ID
Picea mariana	7.00	1197
Larix laricina	1.00	1200

Tree Tally 669

Notes		Location	
		Latitude:45.859215,Longitude:-80.677352,Altitude:181.5,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:06/01/2015 01:27:06 EDT	
Dead	0.00		

Species	Tally	ID
Picea mariana	7.00	1203
Larix laricina	1.00	1206

Tree Tally 672

Notes	Higher tamarack. Component at this location.	Location	
		Latitude:45.858376,Longitude:-80.67452,Altitude:178.0,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/01/2015 02:19:24 EDT	
Dead			

Species	Tally	ID
Larix laricina	4.00	1209
Picea mariana	2.00	1212

Tree Tally 675

Notes		Location	
		Latitude:45.859039,Longitude:-80.673553,Altitude:172.4,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/01/2015 02:43:03 EDT	
Dead	0.00		

Species	Tally	ID
Picea mariana	5.00	1215
Larix laricina	4.00	1218

Tree Tally 678

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Notes		Location	Latitude:45.861141,Longitude:-80.671936,Altitude:182.4,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:06/01/2015 03:05:25 EDT
Dead			



Species	Tally	ID
Picea mariana	5.00	1221
Larix laricina	2.00	1224

Soil Description

Pit ID	1		567
Location	Latitude:45.857957,Longitude:-80.676959,Altitude:193.3,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:06/01/2015 09:56:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	35.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Poor
Effective Texture	Organic

Pit ID	2	570

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.857949,Longitude:-80.678092,Altitude:195.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/01/2015 10:36:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Rubric organic
Horizon 2	120.00	0.00	Humic organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Pit ID	3	573

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.861802,Longitude:-80.679986,Altitude:181.5,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:06/01/2015 12:09:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Rubric organic
Horizon 2	65.00		Humid organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Very poor
Effective Texture	Organic

Pit ID	4	576

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.861306,Longitude:-80.678878,Altitude:186.4,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:06/01/2015 12:50:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Organic rubric
Horizon 2	120.00		Humid organic
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	7
Drainage	Very poor
Effective Texture	Organic

Pit ID	5	579

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.859271,Longitude:-80.677383,Altitude:181.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	0.00	Fibric organic
Horizon 2	120.00		Humid organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Pit ID	6	582

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.858389,Longitude:-80.67451,Altitude:178.6,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/01/2015 02:24:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Rubric organic
Horizon 2	90.00		Humid organic
Horizon 3	120.00		Silt with some clay
Horizon 4			

% Surface Stone	2.00
Moisture Regime	9
Drainage	Very poor
Effective Texture	Organic

Pit ID	7	585

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.85905,Longitude:-80.673542,Altitude:179.8,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/01/2015 02:47:11 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	1.00	Organic fibric
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Fibric organic
Pit ID	8

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.861151,Longitude:-80.67191,Altitude:182.0,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/01/2015 03:09:49 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Fibric organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Additional Notes

Polygon redrawn

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M35	Field Crew	JAMES KAMSTRA, AYESHA	771

Feature ID	ELC-N-M35(303)	Congruent Features	M35(298), M35(301), M35(302), M35(305), M35(47), M35 (300),M35(299), M35(461)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	6/1/2015 10:55:19 AM	Precipitation	0		
End Date	6/1/2015 11:16:41 AM	Cloud Cover	0.00		

Polygon Description 771

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 771

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy		0 None	
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Vaccinium angustifolia
Groundcover	7 <0.2m	2 10 - 25%	Cladina > Vaccinium > Deschampsia
Floating & Submerged			

Stand Composition 771

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 771

Community Age	Mature
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Jack Pine treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Jack Pine conifer forest
Inclusion Code	
Complex	
Complex Code	

Tree Tally 681

Notes

Location



Dead

Species	Tally	ID
Pinus banksiana	1.00	1227

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M46	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	774

Feature ID	ELC-N-M46(470)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/1/2015 2:07:15 PM	Precipitation	0		
End Date	6/1/2015 2:46:15 PM	Cloud Cover	70.00		

Polygon Description 774

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Fen

Stand Species 774

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina > picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > picea mariana
Shrub	4 >1-2m	4 > 60%	Ledum groenlandicum > kalmia angustifolium > nemopantus mucronantus
Groundcover	7 <0.2m	4 > 60%	Spagnum moss
Floating & Submerged		0 None	

Stand Composition 774

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina > picea mariana
Species Dominance 10-24	Larix laricina > picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 774

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 684

Notes

Dead

Location

Latitude:45.856809,Longitude:-80.692246,Altitude:176.7,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/01/2015 02:25:02 EDT



Species	Tally	ID
Larix laricina	4.00	1230

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		591
Location	Latitude:45.85691,Longitude:-80.692139,Altitude:175.7,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/01/2015 02:29:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m30	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	777

Feature ID	ELC-N-M30(457)	Congruent Features	M30(165)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/2/2015 9:45:45 AM	Precipitation	0		
End Date	6/2/2015 10:07:04 AM	Cloud Cover	0.00		

Polygon Description 777

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Bog

Stand Species 777

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina <Picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina <Picea mariana
Shrub	5 >0.5-1m	2 10 - 25%	Kalmia polifolia <Chamaedaphne calyculata <Kalmia angustifolia <Larix laricina
Groundcover	7 <0.2m		Sphagnum spp<Eriophorum viridi-carinatum<carix stricea
Floating & Submerged		4 > 60%	

Stand Composition 777

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina <Picea mariana
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		777
Community Age	Mid-Age	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen Type	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 687

Notes

Location: Latitude:45.880151,Longitude:-80.672679,Altitude:189.0,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/02/2015 10:02:39 EDT



Dead

Species	Tally	ID
Larix laricina	2.00	1239

Tree Tally 690

Notes

Location: Latitude:45.879116,Longitude:-80.671665,Altitude:180.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/02/2015 11:00:53 EDT



Dead

Species	Tally	ID
Larix laricina	2.00	1242

Soil Description

Pit ID	1	597

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.880137,Longitude:-80.672652,Altitude:189.0,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:06/02/2015 09:52:22 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	45.00		Om
Horizon 3	1.00		Oh
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Pit ID	1	600

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.879121,Longitude:-80.67166,Altitude:180.5,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/02/2015 11:04:28 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2	25.00		Of
Horizon 3	55.00		Om
Horizon 4	120.00		Oh

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m30	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	780

Feature ID	Elc-n-m30-285	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/2/2015 11:29:16 AM	Precipitation	0		
End Date	6/2/2015 11:37:17 AM	Cloud Cover	0.00		

Polygon Description 780

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 780

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis <Pinus banksiana <Vaccinium angustifolium <Betula papyrifera <Acer rubrum
Groundcover			Cladonia spp<Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 780

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	780

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	693

Notes		Location	
		Latitude:45.877684,Longitude:-80.675331,Altitude:181.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/02/2015 11:35:16 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	2.00	1245

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m30	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	783

Feature ID	ELC-N-M30(285A)	Congruent Features	M30(43)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/2/2015 11:45:10 AM	Precipitation	0		
End Date	6/2/2015 12:10:40 PM	Cloud Cover	0.00		

Polygon Description 783

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Valley Slope
Plant Form	Coniferous
Community	Swamp

Stand Species 783

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana <<Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana <<pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Alnus incana <Nemopanthus mucronatus
Groundcover			Carix spp
Floating & Submerged		0 None	

Stand Composition 783

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 783

Community Age	Mid-Age
Ecosite	Tamarack-black spruce Organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 696

Notes	
Location	Latitude:45.877686,Longitude:-80.675353,Altitude:176.2,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:06/02/2015 11:49:26 EDT
Dead	



Species	Tally	ID
Na		1248

Tree Tally 699

Notes	
Location	Latitude:45.875863,Longitude:-80.67641,Altitude:182.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/02/2015 12:46:55 EDT
Dead	2.00



Species	Tally	ID
Picea mariana	2.00	1251
Pinus banksiana	3.00	1254

Soil Description

Pit ID	1

603

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.877707,Longitude:-80.675372,Altitude:179.9,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:06/02/2015 12:11:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	45.00		Oh
Horizon 3	100.00		Cl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Pit ID	1	606

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.875861,Longitude:-80.676413,Altitude:182.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/02/2015 12:45:04 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	60.00	0.00	Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Om

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m30	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	786

Feature ID	Elc-n-m30(285b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/2/2015 12:20:43 PM	Precipitation	0		
End Date	6/2/2015 12:28:37 PM	Cloud Cover	0.00		

Polygon Description 786

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Bog

Stand Species 786

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana
Sub Canopy		1 0% - 10%	Picea mariana
Shrub	4 >1-2m	4 > 60%	Picea mariana <Kalmia polifolia <KALMIA ANGUSTIFOLIA <Ledum groenlandicum
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum spp<Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 786

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	786

Community Age	Mid-Age
Ecosite	Treed bog
Ecosite Code	BOT1
Vegetation Type	Black spruce treed bog
Vegetation Type Code	BOT1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	702

Notes		Location	Latitude:45.876939,Longitude:-80.676216,Altitude:189.3,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:06/02/2015 12:27:37 EDT
Dead			



Species	Tally	ID
Na		1257

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		609
Location	Latitude:45.876943,Longitude:-80.676202,Altitude:189.5,Speed:0.12346666,Accuracy:1.5,Provider:gps,Time:06/02/2015 12:29:38 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	5.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	32.00	0.00	Of
Horizon 2	65.00		Om
Horizon 3	110.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M50	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	789

Feature ID	ELC-N-M50(480)	Congruent Features	M50(92)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	6/2/2015 12:42:34 PM	Precipitation	0		
End Date	6/2/2015 1:10:24 PM	Cloud Cover	0.00		

Polygon Description 789

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Parent Mineral
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 789

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > populous tremuloides > Acer rubrum
Sub Canopy		2 10 - 25%	Acer rubrum > popular tremuloides > alnus incana > pinus strobus
Shrub	3 >2-6m	4 > 60%	Viburnum cassinoides > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cornus canadensis > maianthemum canadensis
Floating & Submerged		0 None	

Stand Composition 789

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	N
Standing Snags	N	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 789

Community Age	Mid-Age
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type
Vegetation Type Code	FOM5-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 705

Notes

Location

Latitude:45.873402,Longitude:-80.720678,Altitude:179.2,Speed:0.4835778,Accuracy:1.8,Provider:gps,Time:06/02/2015 01:00:19 EDT

Dead

Species	Tally	ID
Pinus strobus	2.00	1260
Acer rubrum	1.00	1263
Populus tremuloides	1.00	1266

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		612
Location	Latitude:45.873396,Longitude:-80.720669,Altitude:179.4,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/02/2015 01:01:25 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	1.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	25.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Humic
Horizon 2	25.00	0.00	Silty sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	6
Effective Texture	Silty sand

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M50	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	792

Feature ID	ELC-N-M50(131)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/2/2015 1:23:56 PM	Precipitation	0		
End Date	6/2/2015 1:36:30 PM	Cloud Cover	0.00		

Polygon Description 792

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 792

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > betula papyrifera > populous tremuloides
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana
Shrub	4 >1-2m		Vaccinium angustifolium > nemopantus mucronantus > Viburnum cassinoides
Groundcover	7 <0.2m	4 > 60%	Sphagnum moss
Floating & Submerged		0 None	

Stand Composition 792

	<10	10-24	25-50	>50
Size Class Analysis	R	A	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 792

Community Age	Mid-Age
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh White Birch Mixed Forest Type
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 708

Notes

Location

Latitude:45.874401,Longitude:-80.723919,Altitude:183.7,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:06/02/2015 01:31:22 EDT



Dead 2.00

Species	Tally	ID
Picea mariana	6.00	1269
Pinus banksiana	1.00	1272

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		615
Location	Latitude:45.874345,Longitude:-80.723922,Altitude:183.8,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:06/02/2015 01:34:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	0.00	Carbonates	
		Bedrock	15.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	Humic
Horizon 2	3.00	31.00	Silty medium sand
Horizon 3			
Horizon 4			

% Surface Stone	80.00
Moisture Regime	0
Drainage	6
Effective Texture	Silty medium sand

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M50	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	795

Feature ID	ELC-N-M50(225)	Congruent Features	M50(124)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/2/2015 1:52:16 PM	Precipitation	0		
End Date	6/2/2015 2:11:09 PM	Cloud Cover	0.00		

Polygon Description 795

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Floating-LVD,Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 795

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix Laricina >> picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Alnus incana > nemopantus mucronantus > larix laricina
Shrub	4 >1-2m	3 25 - 60%	Chamaedaphne calyculata > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Spagnum moss > maianthemum canadensis
Floating & Submerged		0 None	

Stand Composition 795

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		795
Community Age	Mid-Age	
Ecosite	Organic Thicket Swamp Ecosite	
Ecosite Code	SWT3	
Vegetation Type	Alder organic thicket swamp	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	618

Location	Latitude:45.870211,Longitude:-80.722695,Altitude:182.6,Speed:0.10803334,Accuracy:1.75,Provider:gps,Time:06/02/2015 02:05:39 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	Fibric
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Fibric

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M50	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	798

Feature ID	ELC-N-M50(128)	Congruent Features	M50(93) M50(226)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/2/2015 2:24:46 PM	Precipitation	0		
End Date	6/2/2015 2:37:17 PM	Cloud Cover	0.00		

Polygon Description 798

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 798

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > pinus strobus
Shrub	4 >1-2m	2 10 - 25%	Vaccinium angustifolium > vaccinium myrtiloides > juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Cladonia species > polytechnic species
Floating & Submerged		0 None	

Stand Composition 798

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	O	N	

Species Dominance <10	Pinus banksiana > pinus strobus
Species Dominance 10-24	Pinus banksiana > pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		798
Community Age	Mid-Age	
Ecosite	Acidic Open Rock Barren	
Ecosite Code	RBO3	
Vegetation Type	Dry Acidic Open Rock Barren	
Vegetation Type Code	RBO3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M27	Field Crew	ADAM, HEATHER	801

Feature ID	ELC-N-M27(181)	Congruent Features	M27(188), M27(408)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	6/2/2015 9:12:03 AM	Precipitation	0		
End Date	6/2/2015 10:03:30 AM	Cloud Cover	0.00		

Polygon Description 801

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 801

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana = Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana = Larix laricina
Shrub	6 >0.2-0.5m	4 > 60%	Ledum groenlandicum
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged			

Stand Composition 801

	<10	10-24	25-50	>50
Size Class Analysis	A	A	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea mariana = Larix laricina
Species Dominance 10-24	Picea mariana = Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 801

Community Age	Mid-Age
Ecosite	Tamarack-black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack-black spruce organic coniferous swamp
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 711

Notes

Location

Latitude:45.85837,Longitude:-80.653069,Altitude:187.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/02/2015 09:52:17 EDT

Dead 2.00

Species	Tally	ID
Picea mariana	2.00	1275
Larix laricina	1.00	1278

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		621
Location	Latitude:45.858374,Longitude:-80.653069,Altitude:187.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/02/2015 09:54:06 EDT	Notes	Did not hit bedrockAspect 140
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Om
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Organic

Additional Notes

Changed from BOT1-1 to SWC4-1N-M(188) changed from BOT1e to SWC4-1N-M(408) changed from BOT1e to SWC4-1



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M27	Field Crew	ADAM, HEATHER	804

Feature ID	ELC-N-M27-79	Congruent Features	M27(295), M27(454), M27(352)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	6/2/2015 1:27:14 PM	Precipitation	0		
End Date	6/2/2015 2:01:51 PM	Cloud Cover	0.00		

Polygon Description 804

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 804

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Picea glauca
Shrub	6 >0.2-0.5m	3 25 - 60%	Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Cladina rangiferina
Floating & Submerged		0 None	

Stand Composition 804

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	R	O	N	N

Species Dominance <10	Picea glauca
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	804

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Tamarack-black spruce organic coniferous swamp
Complex Code	SWC4-1

Tree Tally	714

Notes		Location	Latitude:45.863573,Longitude:-80.658644,Altitude:188.5,Speed:0.015433333,Accuracy:1.25,Provider:gps,Time:06/02/2015 01:54:44 EDT
Dead	1.00		

Species	Tally	ID
None in	0.00	1281

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M27	Field Crew	ADAM, HEATHER	807

Feature ID	ELC-N-M27(121)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	6/2/2015 2:32:11 PM	Precipitation	0		
End Date	6/2/2015 3:14:05 PM	Cloud Cover	0.00		

Polygon Description 807

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 807

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Picea mariana > Larix laricina
Sub Canopy	4 >1-2m	2 10 - 25%	Picea mariana > Larix laricina
Shrub	6 >0.2-0.5m	4 > 60%	Kalmia polifolia = Ledum groenlandicum = Chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp. > Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 807

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O		
Deadfall / Logs	R	R		

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Picea glauca = Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		807
Community Age	Mid-Age	
Ecosite	Tamarack-black spruce organic coniferous swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack-black spruce organic coniferous swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 717

Notes		Location	
		Latitude:45.862618,Longitude:-80.655769,Altitude:184.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/02/2015 03:08:13 EDT	
Dead	0.00		

Species	Tally	ID
Larix laricina	2.00	1284
Picea mariana	1.00	1287

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		624
Location	Latitude:45.862617,Longitude:-80.655773,Altitude:185.2,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:06/02/2015 03:07:25 EDT	Notes	Did not hit bedrockAspect 130
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m18	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	822

Feature ID	Elc-n-m18(395)	Congruent Features	M18(345) ,M18(391), M18(432)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/3/2015 12:51:39 PM	Precipitation	0		
End Date	6/3/2015 12:57:38 PM	Cloud Cover	60.00		

Polygon Description 822

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 822

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >Vaccinium angustifolium
Groundcover	5 >0.5-1m	2 10 - 25%	Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 822

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	822

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	729

Notes		Location	Latitude:45.885027,Longitude:-80.652633,Altitude:193.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/03/2015 12:57:50 EDT
Dead	1.00		



Species	Tally	ID
Pinus banksiana	2.00	1308

Tree Tally	732

Notes		Location	Latitude:45.884454,Longitude:-80.650602,Altitude:177.1,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/03/2015 02:03:03 EDT
Dead			

Species	Tally	ID
Pinus banksiana	1.00	1311

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m18	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	825

Feature ID	Elc-n-m18(76)	Congruent Features	M18(149), M18(139), M18(389), M18(138)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/3/2015 1:06:45 PM	Precipitation	0		
End Date	6/3/2015 1:18:14 PM	Cloud Cover	50.00		

Polygon Description 825

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Mixed
Community	Swamp

Stand Species 825

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	4 > 60%	Alnus incana >Rubus pubescens >Vaccinium angustifolium
Groundcover		3 25 - 60%	Sphagnum spp<Maianthemum canadense >carix lacustre
Floating & Submerged		0 None	

Stand Composition 825

	<10	10-24	25-50	>50
Size Class Analysis	A		N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		825
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	633

Location	Latitude:45.884034,Longitude:-80.652284,Altitude:181.1,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/03/2015 01:12:28 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00		Of
Horizon 2	30.00	0.00	cS
Horizon 3	70.00		LcS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	2
Effective Texture	LcS

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m18	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	828

Feature ID	Elc-n-m18(148)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	3		
Start Date	6/3/2015 1:41:24 PM	Precipitation	0		
End Date	6/3/2015 1:58:36 PM	Cloud Cover	30.00		

Polygon Description 828

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Swamp

Stand Species 828

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Fraxinus nigra >Populus tremuloides
Sub Canopy	2 >6-25m	2 10 - 25%	Fraxinus nigra >Betula papyrifera
Shrub	3 >2-6m	3 25 - 60%	Alnus incana
Groundcover	5 >0.5-1m	3 25 - 60%	Rubus pubescens >Maianthemum canadense
Floating & Submerged			

Stand Composition 828

	<10	10-24	25-50	>50
Size Class Analysis	N	O	N	N
Standing Snags	R	N	N	
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		828
Community Age	Mid-Age	
Ecosite	Ash mineral deciduous swamp	
Ecosite Code	SWD2	
Vegetation Type	Black ash mineral deciduous swamp	
Vegetation Type Code	SWD2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 735

Notes		Location	
		Latitude:45.884542,Longitude:-80.65127,Altitude:179.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/03/2015 01:53:24 EDT	
Dead			

Species	Tally	ID
Fraxinus nigra	1.00	1314

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		636
Location	Latitude:45.884541,Longitude:-80.651263,Altitude:179.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/03/2015 01:54:27 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	28.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	25.00		SiCl
Horizon 3	80.00		Cl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Cl

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-m18	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	831

Feature ID	Elc-n-m18(271)	Congruent Features	M18(138)		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/3/2015 2:29:26 PM	Precipitation	0		
End Date	6/3/2015 3:00:51 PM	Cloud Cover	20.00		

Polygon Description 831

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Forest

Stand Species 831

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >Picea glauca >pinus resinosa
Sub Canopy	2 >6-25m	2 10 - 25%	Populus tremuloides >Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Vaccinium angustifolium >Picea glauca >Corylus cornuta
Groundcover	5 >0.5-1m	3 25 - 60%	Cornus canadensis >aster macrophyllus>Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 831

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Picea Glauca
Species Dominance 10-24	Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		831
Community Age	Mid-Age	
Ecosite	Dry-fresh pine coniferous forest	
Ecosite Code	FOC1	
Vegetation Type	Dry-jack pine coniferous forest	
Vegetation Type Code	FOC1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		639
Pit ID	1	

Location	Latitude:45.882677,Longitude:-80.644768,Altitude:176.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/03/2015 02:32:06 EDT	Notes		
		Depth to: (cm)		
Slope Position	6 Level	Mottles		
Slope Aspect (deg)	0.00	Gley		
Slope Percent	0.00	Water Table		
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	30.00		LS
Horizon 3	50.00		fS
Horizon 4	75.00		CS

% Surface Stone	0.00
Moisture Regime	0
Drainage	1
Effective Texture	cS

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M21	Field Crew	ADAM HEATHER DANIEL	834

Feature ID	ELC-N-M21(204)	Congruent Features	M21(206), M21(205)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	6/3/2015 9:15:06 AM	Precipitation	0		
End Date	6/3/2015 9:44:42 AM	Cloud Cover	10.00		

Polygon Description 834

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Deciduous,Coniferous
Community	Swamp

Stand Species 834

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Larix laricina = Picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina = Picea mariana
Shrub	5 >0.5-1m	3 25 - 60%	Ledum groenlandicum > Kalmia polifolia
Groundcover	4 >1-2m	4 > 60%	Carex sp.
Floating & Submerged			

Stand Composition 834

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina Picea mariana
Species Dominance 10-24	Larix laricina Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		834
Community Age	Mature	
Ecosite	Tamarack - Black Spruce Organic Coniferous Swamp E	
Ecosite Code	SWC4	
Vegetation Type	Tamarack - Black Spruce Organic Coniferous Swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		738
Notes		
Dead	0.00	

Location

Latitude:45.879886,Longitude:-80.654483,Altitude:186.5,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/03/2015 09:33:22 EDT



Species	Tally	ID
Larix laricina	3.00	1317

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		642
Location	Latitude:45.87987,Longitude:-80.654487,Altitude:187.6,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/03/2015 09:25:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	73.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M21	Field Crew	ADAM HEATHER DANIEL	837

Feature ID	ELC-N-M21(446)	Congruent Features	M21(347), M21(447)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	6/3/2015 10:02:48 AM	Precipitation	0		
End Date	6/3/2015 10:45:43 AM	Cloud Cover	10.00		

Polygon Description 837

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 837

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana>>Picea glauca=Betula paltrier
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana >> Picea glauca
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium
Groundcover	6 >0.2-0.5m	3 25 - 60%	Danthonia spicata =lichen = mosses
Floating & Submerged			

Stand Composition 837

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		837
Community Age	Mature	
Ecosite	Acidic Treed Rick Barren	
Ecosite Code	RBT3	
Vegetation Type	Jack Pine Acidic Treed Rock Barren	
Vegetation Type Code	RBT3-2	
Inclusion	Fresh - Moist Poplar Mixed Forest Type	
Inclusion Code	FOM8-1	
Complex		
Complex Code		

Soil Description		645
Pit ID	1	

Location	Latitude:45.879218,Longitude:-80.655243,Altitude:188.7,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:06/03/2015 10:06:23 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	1.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		78.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	78.00
Moisture Regime	0
Drainage	0
Effective Texture	Bedrock

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M21	Field Crew	ADAM HEATHER DANIEL	840

Feature ID	ELC-N-M21(207)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	4		
Start Date	6/3/2015 10:47:27 AM	Precipitation	0		
End Date	6/3/2015 11:15:59 AM	Cloud Cover	40.00		

Polygon Description 840

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Coniferous
Community	Fen

Stand Species 840

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Shrub	5 >0.5-1m	3 25 - 60%	Kalmia polifolia >> Ledum groenlandicum
Groundcover	4 >1-2m	4 > 60%	Carex sp.
Floating & Submerged		0 None	

Stand Composition 840

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		840
Community Age	Mature	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		741
Notes	No trees in tally	
Location	Latitude:45.876961,Longitude:-80.652595,Altitude:186.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/03/2015 11:10:56 EDT	
Dead	0.00	



Species	Tally	ID
None		1320

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		648
Location	Latitude:45.876909,Longitude:-80.65254,Altitude:184.1,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/03/2015 10:54:26 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Om
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Om

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M21	Field Crew	ADAM HEATHER DANIEL	843

Feature ID	ELC-N-M21(56)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	6/3/2015 2:31:25 PM	Precipitation	0		
End Date	6/3/2015 2:46:49 PM	Cloud Cover	15.00		

Polygon Description 843

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Deciduous
Community	Fen

Stand Species 843

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Dead standing
Sub Canopy		0 None	
Shrub	5 >0.5-1m	3 25 - 60%	Chamaedaphne calyculata
Groundcover	5 >0.5-1m	3 25 - 60%	Carex sp., Dulichium arundinaceum
Floating & Submerged		3 25 - 60%	Nymphaea odorata, Utricularia variegatum

Stand Composition 843

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		843
Community Age	Mature	
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf - Forb Shrub Fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		651
Pit ID	1	

Location	Latitude:45.878608,Longitude:-80.646565,Altitude:183.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/03/2015 02:34:21 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	117.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M21	Field Crew	ADAM HEATHER DANIEL	846

Feature ID	ELC-N-M21(150)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	6/3/2015 3:11:01 PM	Precipitation	0		
End Date	6/3/2015 3:28:59 PM	Cloud Cover	5.00		

Polygon Description 846

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Deciduous,Coniferous
Community	Fen

Stand Species 846

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina Picea mariana
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina Picea mariana
Shrub	5 >0.5-1m	3 25 - 60%	Kalmia polifolia = Ledum groenlandicum
Groundcover	5 >0.5-1m	4 > 60%	Carex aquatilis
Floating & Submerged		0 None	

Stand Composition 846

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Larix laricina Picea mariana
Species Dominance 10-24	Larix laricina Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		846
Community Age	Mature	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen Type	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		654
Pit ID	1	

Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	125.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M16	Field Crew	ADAM HEATHER RON	864

Feature ID	ELC-S-M16(239)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3	Slightly overcast	
Start Date	6/4/2015 1:57:44 PM	Precipitation	0		
End Date	6/4/2015 2:56:01 PM	Cloud Cover	70.00		

Polygon Description 864

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Graminoid
Community	Marsh

Stand Species 864

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	Spiraea tomentosa
Shrub	3 >2-6m	1 0% - 10%	Alnus incana ssp. rugosa = Spiraea tomentosa
Groundcover	5 >0.5-1m	4 > 60%	Carex spp. >> Lysimachia thyrsiflora > Potentilla palustris
Floating & Submerged		0 None	

Stand Composition 864

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification

864

Community Age	Mature
Ecosite	Mineral Meadow Marsh
Ecosite Code	MAM2
Vegetation Type	Broad-leaved Sedge Mineral Shallow Marsh
Vegetation Type Code	MAM2-6
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

669

Pit ID	1		
Location	Latitude:45.833732,Longitude:-80.635585,Altitude:190.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:05:41 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	42.00
Slope Aspect (deg)	236.00	Gley	42.00
Slope Percent	0.00	Water Table	28.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	28.00	0.00	Of
Horizon 2	42.00	0.00	CL
Horizon 3	80.00	0.00	SiC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	6
Effective Texture	CL

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M16	Field Crew	ADAM HEATHER RON	867

Feature ID	ELC-S-M16(591)	Congruent Features	M16(690)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	3		
Start Date	6/4/2015 3:27:53 PM	Precipitation	0		
End Date	6/4/2015 3:50:07 PM	Cloud Cover	30.00		

Polygon Description 867

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 867

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Betula papyrifera = Acer rubrum = Populus tremuloides
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum = Pinus banksiana = Populus tremuloides
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > Spiraea alba > Diervilla Lonicera > Prunus pumila
Groundcover	6 >0.2-0.5m	2 10 - 25%	Grasses = Lichen
Floating & Submerged		0 None	

Stand Composition 867

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana >> Acer rubrum = Betula papyrifera
Species Dominance 25-50	Pinus banksiana >> Populus tremuloides = Betula pa
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	867

Community Age	Mature
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-1
Inclusion	Dry -Fresh Poplar - White Birch Deciduous Forest
Inclusion Code	FOD3
Complex	
Complex Code	

Tree Tally	759

Notes		Location	
		Latitude:45.836575,Longitude:-80.637185,Altitude:188.0,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:06/04/2015 03:29:56 EDT	
Dead	0.00		

Species	Tally	ID
Pinus banksiana	1.00	1356

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	870

Feature ID	ELC-S-M33(242)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1	Wispy clouds	
Start Date	6/4/2015 10:30:12 AM	Precipitation	0		
End Date	6/4/2015 11:22:05 AM	Cloud Cover	70.00		

Polygon Description 870

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Plankton,Submerged,Floating-LVD,Graminoid
Community	Pond

Stand Species 870

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Viccinium angustifolium > Myrica gale > chamaedaphne calyculata
Groundcover		2 10 - 25%	Spagnum moss
Floating & Submerged		3 25 - 60%	Water shield > white water lily > yellow pond lily

Stand Composition 870

	<10	10-24	25-50	>50
Size Class Analysis	N	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

ELC - WEC

Stand Classification		870
Community Age	Mid-Age	
Ecosite	Floating leaved shallow aquatic	
Ecosite Code	SAF1	
Vegetation Type	Water lily - bullhead lily floating -leaved shallo	
Vegetation Type Code	SAF1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		672
Pit ID	1	

Location	Latitude:45.825435,Longitude:-80.647069,Altitude:188.9,Speed:0.0,Accuracy:1.8,Provider:gps,Time:06/04/2015 10:58:17 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	
Slope Length (m)	0.00		Carbonates	
			Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Organic
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	30.00
Moisture Regime	6
Drainage	6
Effective Texture	Organic

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	873

Feature ID	ELC-S-M33(410)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2	Light wispy clouds	
Start Date	6/4/2015 11:28:53 AM	Precipitation	0		
End Date	6/4/2015 11:54:55 AM	Cloud Cover	80.00		

Polygon Description 873

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Submerged,Floating-LVD,Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 873

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Picea mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Alnus americana > Viburnum cassinoides
Shrub	3 >2-6m	3 25 - 60%	Alnus americana
Groundcover	5 >0.5-1m	4 > 60%	Typha latifolia
Floating & Submerged		1 0% - 10%	Nymphaea odorata

Stand Composition 873

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus americana > Viburnum cassinoides
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		873
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp ecosite	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp type	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	675

Location	Latitude:45.824479,Longitude:-80.647504,Altitude:189.3,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:06/04/2015 11:43:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	8.00	0.00	Organic
Horizon 2	120.00	2.00	Sandy medium soil
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Sandy medium soil

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	876

Feature ID	ELC-S-M33(488)	Congruent Features	M33(604), M33(602), M33(603), M33 (706), M33(707), M33 (705)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	4		
Start Date	6/4/2015 12:01:55 PM	Precipitation	0		
End Date	6/4/2015 5:55:03 PM	Cloud Cover	90.00		

Polygon Description 876

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 876

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	Pinus banksiana > pinus strobus > picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > pinus strobus > picea mariana
Shrub	4 >1-2m	3 25 - 60%	Vaccinium angustifolium > vaccinium myrtiloides
Groundcover	7 <0.2m	3 25 - 60%	Reindeer lichen > Juniperus communis
Floating & Submerged		0 None	

Stand Composition 876

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana > pinus strobus
Species Dominance 10-24	Pinus banksiana > pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 876

Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Blueberry Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 762

Notes

Location

Latitude:45.827739,Longitude:-80.651502,Altitude:162.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/04/2015 01:32:19 EDT

Dead

Species	Tally	ID
Pinus banksiana	1.00	1359

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	879

Feature ID	ELC-S-M33(436)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	6/4/2015 12:32:22 PM	Precipitation	0		
End Date	6/4/2015 12:49:01 PM	Cloud Cover	100.00		

Polygon Description 879

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Swamp

Stand Species 879

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Fraxinus nigra >> Acer rubrum > Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Alnus americana >> fraxinus nigra
Shrub	5 >0.5-1m	2 10 - 25%	Viburnum cassinoides
Groundcover	7 <0.2m	2 10 - 25%	Carex aquatilis > cornus canadensis > maianthemum canadensis
Floating & Submerged		0 None	

Stand Composition 879

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Alnus americana
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 879

Community Age	Mid-Age
Ecosite	Mineral Thicket swamp ecosite
Ecosite Code	SWT2
Vegetation Type	Alder mineral thicket swamp type
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 765

Notes

Location

Latitude:45.825492,Longitude:-80.650331,Altitude:171.9,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:06/04/2015 12:41:23 EDT

Dead

Species	Tally	ID
Fraxinus nigra	1.00	1362
Acer rubrum	1.00	1365
Abies balsamia	2.00	1368

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		678
Location	Latitude:45.825463,Longitude:-80.650386,Altitude:172.0,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:06/04/2015 12:46:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	Organic
Horizon 2	70.00	0.00	Silty medium sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Silty medium sand

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	882

Feature ID	ELC-S-M33(488B)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	6/4/2015 1:02:52 PM	Precipitation	0		
End Date	6/4/2015 1:25:55 PM	Cloud Cover	100.00		

Polygon Description 882

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 882

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea glauca > populous tremuloides > betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > populous tremuloides
Shrub	4 >1-2m		Corylus cornuta > Lonicera Canadensis
Groundcover	6 >0.2-0.5m	4 > 60%	Maianthemum canadensis > cornus canadensis > trientalis borealis > coptis trifolia
Floating & Submerged		0 None	

Stand Composition 882

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Acer rubrum > Corylus cornuta
Species Dominance 10-24	Picea glauca > populous tremuloides > betula
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 882

Community Age	Mid-Age
Ecosite	Fresh-Moist Poplar-White Birch Mixed Forest Ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh-Moist Poplar Mixed Forest Type
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 768

Notes		Location	Latitude:45.827003,Longitude:-80.651673,Altitude:149.1,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:06/04/2015 01:16:53 EDT
Dead	3.00		

Species	Tally	ID
Acer rubrum	1.00	1371
Betula papyrifera	2.00	1374
Abies balsamia	1.00	1377

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		681
Location	Latitude:45.827007,Longitude:-80.651644,Altitude:149.8,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:06/04/2015 01:19:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	30.00
Slope Aspect (deg)	43.00	Gley	100.00
Slope Percent	2.00	Water Table	100.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	8.00	0.00	H
Horizon 2	18.00		E
Horizon 3	120.00		mS
Horizon 4			

% Surface Stone	5.00
Moisture Regime	4
Drainage	5
Effective Texture	mS

Additional Notes

Spruce dominant. No ecosite fits. FRESH - MOIST

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	885

Feature ID	ELC-S-M33(3)	Congruent Features	M33(212), M33(313)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	6/4/2015 1:49:16 PM	Precipitation	0		
End Date	6/4/2015 2:11:16 PM	Cloud Cover	100.00		

Polygon Description 885

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte
Community	Marsh

Stand Species 885

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Alnus americana
Sub Canopy	3 >2-6m	1 0% - 10%	Alnus americana
Shrub	4 >1-2m		vaccinium myrtiloides > spiraea alba
Groundcover	6 >0.2-0.5m	4 > 60%	Carex aquatilis > onoclea sensibilis
Floating & Submerged		0 None	

Stand Composition 885

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus americana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		885
Community Age	Mid-Age	
Ecosite	Graminoid Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type	Broad-leaved Sedge Mineral Shallow Marsh	
Vegetation Type Code	MAS2-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	684

Location	Latitude:45.828621,Longitude:-80.652124,Altitude:175.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/04/2015 02:03:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	13.00
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	13.00	0.00	Organic
Horizon 2	120.00		fS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Fine sand

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	888

Feature ID	ELC-S-M33(327)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	6/4/2015 2:41:34 PM	Precipitation	0		
End Date	6/4/2015 2:56:58 PM	Cloud Cover	60.00		

Polygon Description 888

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Forest

Stand Species 888

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Picea mariana > picea glauca > abies balsamia > larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > picea glauca
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum > Viburnum cassinoides > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cornus canadensis > mainthemum canadensis > trientalis borealis > Ilex verticallata
Floating & Submerged		0 None	

Stand Composition 888

	<10	10-24	25-50	>50
Size Class Analysis	R	A	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Picea mariana > picea glauca > abies balsam
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 888

Community Age	Mid-Age
Ecosite	Maple Mineral Mixed Swamp Ecosite
Ecosite Code	SWM2
Vegetation Type	Red Maple-Conifer Mineral Mixed Swamp Type
Vegetation Type Code	SWM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 771

Notes

Location

Latitude:45.827764,Longitude:-80.647182,Altitude:181.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:54:04 EDT

Dead

Species	Tally	ID
Picea mariana	4.00	1380
Pinus banksiana	1.00	1383

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		687
Location	Latitude:45.827759,Longitude:-80.647177,Altitude:181.3,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/04/2015 02:54:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	40.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	80.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Humic
Horizon 2	5.00	0.00	E
Horizon 3	120.00		mS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	mS

Additional Notes

Spruce dominant forest. No ecosite fits fresh - moist

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M33	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	891

Feature ID	ELC-S-M33(329)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	2		
Start Date	6/4/2015 3:03:07 PM	Precipitation	0		
End Date	6/4/2015 3:23:35 PM	Cloud Cover	75.00		

Polygon Description 891

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Fen

Stand Species 891

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Pinus strobus > pinus banksiana > > picea mariana > larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus strobus > pinus banksiana > picea mariana > larix laricina
Shrub	4 >1-2m	3 25 - 60%	Vaccinium myrtiloides > chamaedaphne calyculata > kalmia angustifolium
Groundcover	6 >0.2-0.5m	4 > 60%	Spagnum moss > Carex species
Floating & Submerged		0 None	

Stand Composition 891

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus strobus > pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		891
Community Age	Mid-Age	
Ecosite	Mineral Thicket Swamp Ecosite	
Ecosite Code	SWT2	
Vegetation Type	White Pine Mineral Coniferous Swamp Type	
Vegetation Type Code	SWC2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	690

Location	Latitude:45.828029,Longitude:-80.646002,Altitude:187.3,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/04/2015 03:18:11 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	20.00
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Om
Horizon 2	120.00	0.00	mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	6
Effective Texture	mS

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M6	Field Crew	OLGA HROPACH SARAH RICHER	894

Feature ID	ELC-N-M6(358a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/4/2015 9:15:53 AM	Precipitation	0		
End Date	6/4/2015 11:17:29 AM	Cloud Cover	0.00		

Polygon Description 894

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Forest

Stand Species 894

	Height	Cover	Species Dominance
Canopy	1 >25m	1 0% - 10%	Populus tremuloides
Sub Canopy	2 >6-25m	4 > 60%	Thuja occidentalis>Abies balsamea>Acer rubrum>Fraxinus nigra
Shrub	4 >1-2m	2 10 - 25%	Fraxinus nigra
Groundcover	6 >0.2-0.5m	3 25 - 60%	Ferns spp>Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 894

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	O	R
Deadfall / Logs	A	A	O	R

Species Dominance <10	Acer rubrum>Abies balsamea>Fraxinus nigra
Species Dominance 10-24	Thuja occidentalis>Acer rubrum>Betula papyrifera
Species Dominance 25-50	Thuja occidentalis>Populus tremuloides
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 894

Community Age	
Ecosite	Fresh-moist white cedar hardwood mixed forest
Ecosite Code	FOM7
Vegetation Type	Fresh-moist white cedar-hardwood mixed forest type
Vegetation Type Code	FOM7-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 774

Notes

Location

Latitude:45.871358,Longitude:-80.604059,Altitude:203.6,Speed:0.1389,Accuracy:2.4,Provider:gps,Time:06/04/2015 11:04:11 EDT



Dead 3.00

Species	Tally	ID
Acer rubrum	4.00	1386
Thuja occidentalis	4.00	1389
Betula papyrifera	1.00	1392
Populus tremuloides	1.00	1395
Pinus strobus	1.00	1398

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		693
Location	Latitude:45.871446,Longitude:-80.604168,Altitude:183.3,Speed:0.10803334,Accuracy:3.0,Provider:gps,Time:06/04/2015 10:17:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	35.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	13.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Mesic Organic
Horizon 2	7.00	0.00	Mesic organic loam
Horizon 3	17.00	20.00	Loamy medium sand
Horizon 4	59.00		Silty clay

% Surface Stone	4.00
Moisture Regime	Moist
Drainage	Imperfect(5)
Effective Texture	Silty clay

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M6	Field Crew	OLGA HROPACH SARAH RICHER	897

Feature ID	ELC-N-M6(358c)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/4/2015 11:36:45 AM	Precipitation	0		
End Date	6/4/2015 12:49:49 PM	Cloud Cover	0.00		

Polygon Description 897

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1002

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus>Abies balsamea>Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus strobus>Abies balsamea>Acer rubrum
Shrub	4 >1-2m	4 > 60%	Juniperus communis>Abies balsamea>Pteridium aquilinum
Groundcover	6 >0.2-0.5m	4 > 60%	Lichen spp=mosses sp>>Vaccinium oxycoccos
Floating & Submerged		0 None	

Stand Composition 1002

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus strobus>Acer rubrum
Species Dominance 10-24	Pinus strobus>Abies balsamea >Acer rubrum
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1002
Community Age	Mature
Ecosite	Acidic Treed Rock Barren Ecosite
Ecosite Code	RBT3
Vegetation Type	
Vegetation Type Code	
Inclusion	Sweet gale shrub fen type
Inclusion Code	FES1-1
Complex	
Complex Code	

Additional Notes

Is a White pine acidic treed rock barren type, not in southern Elc book

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M01	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	900

Feature ID	ELC-S-M1(199)	Congruent Features	M01(201)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/5/2015 8:45:26 AM	Precipitation	1		
End Date	6/5/2015 9:02:40 AM	Cloud Cover	100.00		

Polygon Description 900

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Mixed
Community	Barren

Stand Species 897

	Height	Cover	Species Dominance
Canopy	1 >25m	1 0% - 10%	Pinus strobus
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus strobus > > picea mariana > Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Juniperus communis > vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Spagnum moss > Carex species
Floating & Submerged		0 None	

Stand Composition 897

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	R	O	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Pinus strobus > picea mariana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 897

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 777

Notes

Location

Latitude:45.867301,Longitude:-80.572101,Altitude:203.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/05/2015 08:59:14 EDT

Dead

Species	Tally	ID
Pinus strobus	2.00	1401

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M01	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	903

Feature ID	ELC-S-M1(198)	Congruent Features	M01(256)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/5/2015 9:17:52 AM	Precipitation	1		
End Date	6/5/2015 9:33:17 AM	Cloud Cover	100.00		

Polygon Description 903

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 900

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides >betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides > abies balsamia > Acer rubrum
Shrub	3 >2-6m	3 25 - 60%	Corylus cornuta > Acer spicatum
Groundcover	7 <0.2m	4 > 60%	Maianthemum canadensis > trientalis borealis > sarsasparilla
Floating & Submerged		0 None	

Stand Composition 900

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	R	N	O
Deadfall / Logs	R	R	N	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Populus tremuloides > betula papyrifera
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	900

Community Age	Mid-Age
Ecosite	Dry - Fresh White Birch - Poplar - Conifer Mixed F
Ecosite Code	FOM5
Vegetation Type	Dry - fresh poplar mixed forest type
Vegetation Type Code	FOM5-2
Inclusion	Fresh - moist ash lowland deciduous forest type
Inclusion Code	FOD7-2
Complex	
Complex Code	

Tree Tally	780

Notes		Location	Latitude:45.868567,Longitude:-80.570161,Altitude:188.8,Speed:0.010288889,Accuracy:2.7,Provider:gps,Time:06/05/2015 09:28:48 EDT
Dead			

Species	Tally	ID
Populus tremuloides	3.00	1404
Acer rubrum	1.00	1407

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		696
Location	Latitude:45.868567,Longitude:-80.57016,Altitude:188.7,Speed:0.041155554,Accuracy:2.7,Provider:gps,Time:06/05/2015 09:29:44 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	40.00
Slope Percent	0.00	Water Table	
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Silt
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	7
Effective Texture	Silt

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M01	Field Crew	AMI ARSENAULT KRISTAN WASHBURN	906

Feature ID	ELC-S-M1(200)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	3		
Start Date	6/5/2015 10:05:44 AM	Precipitation	0		
End Date	6/5/2015 10:47:29 AM	Cloud Cover	100.00		

Polygon Description 906

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Deciduous
Community	Marsh

Stand Species 903

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	1 0% - 10%	Populus tremuloides
Shrub	4 >1-2m		Viburnum cassinoides
Groundcover	6 >0.2-0.5m	4 > 60%	Typha latifolia > Carex species > solidarity canadensis
Floating & Submerged		0 None	

Stand Composition 903

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		903
Community Age	Mid-Age	
Ecosite	Graminoid Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type	Cattail Mineral Shallow Marsh Type	
Vegetation Type Code	MAS2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	699

Location	Latitude:45.869404,Longitude:-80.567876,Altitude:184.3,Speed:0.1852,Accuracy:2.4,Provider:gps,Time:06/05/2015 10:09:51 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	93.00		Gley	10.00
Slope Percent	2.00		Water Table	30.00
Slope Length (m)	0.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Silty fine sand
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	10.00
Moisture Regime	6
Drainage	7
Effective Texture	Silty fine sand

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M3	Field Crew	ADAM HEATHER	909

Feature ID	ELC-S-M3(343)	Congruent Features	M3(665), M3(344)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	6/5/2015 9:41:57 AM	Precipitation	1		
End Date	6/5/2015 10:38:21 AM	Cloud Cover	100.00		

Polygon Description 909

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Forest

Stand Species 906

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus strobus = Picea Abies = Acer rubrum = Berula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Betula papyrifera > Picea Abies
Shrub		2 10 - 25%	Corylus cornuta > Acer spicatum
Groundcover			Pteridium aqilinium > Aralia nudicaulis > Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 906

	<10	10-24	25-50	>50
Size Class Analysis	O	A	A	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abies balsamea> Acer rubrum
Species Dominance 10-24	Acer rubrum > Abies balsamea
Species Dominance 25-50	Pinus strobus = Acer rubrum =Abies balsamea = Betu
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 906

Community Age	Mature
Ecosite	Dry - Fresh White Birch - Poplar - Conifer Mixed F
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh White Birch Mixed Forest Type
Vegetation Type Code	FOM5-2
Inclusion	Black Ash Mineral Deciduous Swamp Type
Inclusion Code	SWD2-1
Complex	
Complex Code	

Tree Tally 783

Notes

Location

Latitude:45.858404,Longitude:-80.574332,Altitude:203.4,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:06/05/2015 10:15:21 EDT



Dead 1.00

Species	Tally	ID
Acer rubrum	3.00	1410
Betula papyrifera	3.00	1413
Pinus strobus	4.00	1416
Picea Abies	2.00	1419

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		702
Location	Latitude:45.858349,Longitude:-80.574341,Altitude:198.6,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:06/05/2015 09:54:35 EDT	Notes	Aspect 170
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	20.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2	40.00	3.00	SiS
Horizon 3			
Horizon 4		0.00	

% Surface Stone	5.00
Moisture Regime	1
Drainage	1
Effective Texture	SiS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M3	Field Crew	ADAM HEATHER KEVIN	912

Feature ID	ELC-S-M3(154)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	6/5/2015 11:12:45 AM	Precipitation	1		
End Date	6/5/2015 11:22:00 AM	Cloud Cover	100.00		

Polygon Description 912

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Lichen
Community	Barren

Stand Species 909

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	1 0% - 10%	Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Lichen > Rumex acetosella > Danthonia spicata
Floating & Submerged			

Stand Composition 909

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	909
Community Age	Mature
Ecosite	Acidic Open Rock Barren Ecosite
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren type
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m2	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	915

Feature ID	Elc-s-m2(664)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/5/2015 8:15:21 AM	Precipitation	0		
End Date	6/5/2015 8:40:35 AM	Cloud Cover	100.00		

Polygon Description 915

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Valley Slope
Plant Form	Deciduous
Community	Barren

Stand Species 912

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum >Populus tremuloides >pinus strobus
Sub Canopy	2 >6-25m	2 10 - 25%	Acer rubrum >pinus strobus >Populus tremuloides
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum >Tilia americana >Quercus rubrum >Juniperus communis
Groundcover	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum <Maianthemum canadense >Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 912

	<10	10-24	25-50	>50
Size Class Analysis	O	O	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	N	R	N	N

Species Dominance <10	Acer rubrum <Quercus rubrum
Species Dominance 10-24	Acer rubrum
Species Dominance 25-50	Populus tremuloides>Acer rubrum>pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 912

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Oak-red maple-pine basic treed rock barren
Vegetation Type Code	RBT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 786

Notes

Dead

Location

Latitude:45.865059964938574,Longitude:-80.57329819693065,Altitude:182.37011439725757,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 08:26:31 EDT



Species	Tally	ID
Acer rubrum	4.00	1422
Pinus strobus	1.00	1425

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		705
Location	Latitude:45.865061701995,Longitude:-80.5733044244939,Altitude:183.27539724577218,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 08:33:06 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	30.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	cS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	cS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m2	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	918

Feature ID	Elc-s-m2(458)	Congruent Features	M2(459)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/5/2015 8:46:41 AM	Precipitation	1		
End Date	6/5/2015 9:02:59 AM	Cloud Cover	100.00		

Polygon Description 918

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Forest

Stand Species 915

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum=Pinus strobus =Populus tremuloides =Betula papyrifera
Sub Canopy	2 >6-25m	2 10 - 25%	Acer rubrum >Abies balsamea
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta > Abies balsamea >Vaccinium angustifolium
Groundcover	5 >0.5-1m	2 10 - 25%	Maianthemum canadense >Cornus canadensis>Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 915

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Abies balsamea >Acer rubrum
Species Dominance 10-24	Acer rubrum >Populus tremuloides >pinus strobus
Species Dominance 25-50	Populus tremuloides >pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 915

Community Age	Mid-Age
Ecosite	Dry-fresh white birch-poplar-conifer mixed forest
Ecosite Code	FOM5
Vegetation Type	Dry-fresh poplar mixed forest
Vegetation Type Code	FOM5-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 789

Notes

Dead 1.00

Location

Latitude:45.86440699111194,Longitude:-80.57383765851294,Altitude:186.5795460343361,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 09:01:57 EDT



Species	Tally	ID
Acer rubrum	2.00	1428
Pinus strobus	2.00	1431
Abies balsamea	2.00	1434

Tree Tally 792

Notes

Dead

Location

Latitude:45.861976681289214,Longitude:-80.57434234391047,Altitude:176.27863616496325,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 09:26:59 EDT

Species	Tally	ID
Pinus strobus	2.00	1437

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		708
Location	Latitude:45.86440567061474,Longitude:-80.57384677110358,Altitude:186.26385870110244,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 08:51:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	5.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	50.00		SifS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	7
Effective Texture	SifS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m2	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	921

Feature ID	Elc-s-m2(155)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/5/2015 9:11:18 AM	Precipitation	1		
End Date	6/5/2015 9:25:27 AM	Cloud Cover	100.00		

Polygon Description 921

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Basic Bedrock
Topographic Feature	Tableland
Plant Form	Forb
Community	Barren

Stand Species 918

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis >Vaccinium angustifolium
Groundcover	5 >0.5-1m	2 10 - 25%	Cladonia spp>Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 918

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		918
Community Age	Mid-Age	
Ecosite	Acidic Open Rock Barren	
Ecosite Code	RBO3	
Vegetation Type	Dry Acidic Open Rock Barren	
Vegetation Type Code	RBO3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m2	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	924

Feature ID	Elc-s-m2(156)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/5/2015 9:37:16 AM	Precipitation	2		
End Date	6/30/2015 10:00:07 AM	Cloud Cover	100.00		

Polygon Description 924

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Forest

Stand Species 921

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus >>Acer rubrum
Sub Canopy	2 >6-25m	1 0% - 10%	Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	pinus strobus >acer rubrum>Abies balsamea
Groundcover	5 >0.5-1m	2 10 - 25%	Cornus canadensis >Trientalis borealis >occicocus
Floating & Submerged		0 None	

Stand Composition 921

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	R
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus strobus
Species Dominance 10-24	Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		921
Community Age	Mid-Age	
Ecosite	Dry-fresh pine coniferous forest	
Ecosite Code	FOC1	
Vegetation Type	Dry-fresh white pine -red Pine coniferous forest	
Vegetation Type Code	FOC1-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		795
Notes		
Dead	1.00	

Location

Latitude:45.860158494934694,Longitude:-80.57399088753726,Altitude:179.09216368664056,Speed:0.0,Accuracy:25.0,Provider:gps,Time:06/05/2015 09:47:52 EDT



Species	Tally	ID
Pinus strobus	5.00	1440

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		711
Location	Latitude:45.86015284423885,Longitude:-80.57400452924963,Altitude:178.07623821962625,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 09:44:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	50.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	30.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	18.00	0.00	Of
Horizon 2	70.00	0.00	SL
Horizon 3		0.00	
Horizon 4		98.00	

% Surface Stone	0.00
Moisture Regime	1
Drainage	5
Effective Texture	SL

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m4	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	927

Feature ID	Elc-s-m4(548)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	0		
Start Date	6/5/2015 11:22:13 AM	Precipitation	1		
End Date	6/5/2015 11:40:14 AM	Cloud Cover	100.00		

Polygon Description 927

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Forest

Stand Species 924

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Abies balsamea >Acer rubrum >Populus tremuloides >Betula papyrifera
Sub Canopy	2 >6-25m	2 10 - 25%	Abies balsamea >Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum >Corylus cornuta
Groundcover	5 >0.5-1m	2 10 - 25%	Maianthemum canadense >Trientalis borealis
Floating & Submerged		0 None	

Stand Composition 924

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Abies balsamea >Acer rubrum
Species Dominance 10-24	Abies balsamea.
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		924
Community Age	Mid-Age	
Ecosite	Dry-fresh white birch-poplar-conifer mixed forest	
Ecosite Code	FOM5	
Vegetation Type	Dry-fresh poplar mixed forest	
Vegetation Type Code	FOM5-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		798
Notes		Location
Dead		Latitude:45.852169327040485,Longitude:-80.57299023014801,Altitude:161.60009741224349,Speed:0.0,Accuracy:25.0,Provider:gps,Time:06/05/2015 11:28:37 EDT



Species	Tally	ID
Abies balsamea	5.00	1443
Acer rubrum	1.00	1446

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		714
Location	Latitude:45.85217697660506,Longitude:-80.57299171418124,Altitude:161.3784459400922,Speed:0.0,Accuracy:25.0,Provider:gps,Time:06/05/2015 11:35:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	cS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	2
Effective Texture	cS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m4	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	930

Feature ID	Elc-s-m4(86)	Congruent Features	M4(666)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/5/2015 11:42:08 AM	Precipitation	1		
End Date	6/5/2015 11:45:23 AM	Cloud Cover	100.00		

Polygon Description 930

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Basic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Forb
Community	Barren

Stand Species 927

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis >Vaccinium angustifolium >Rubus idaeus
Groundcover	5 >0.5-1m	1 0% - 10%	Cladonia spp
Floating & Submerged		0 None	

Stand Composition 927

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		927
Community Age	Mid-Age	
Ecosite	Acidic Open Rock Barren	
Ecosite Code	RBO3	
Vegetation Type	Dry Acidic Open Rock Barren	
Vegetation Type Code	RBO3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m4	Field Crew	JASON NORONHA. NATALIYA SIMONOVA	933

Feature ID	Elc-s-m4(88)	Congruent Features	M4(89)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/5/2015 11:51:29 AM	Precipitation	0		
End Date	6/5/2015 12:08:45 PM	Cloud Cover	100.00		

Polygon Description 933

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Forest

Stand Species 930

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer saccharum >Populus tremuloides
Sub Canopy	2 >6-25m	3 25 - 60%	Acer saccharum
Shrub	4 >1-2m	2 10 - 25%	Acer saccharum >Viburnum >Corylus cornuta
Groundcover	5 >0.5-1m	3 25 - 60%	Aralia nudicaulis >Maianthemum canadense >bracken fern
Floating & Submerged			

Stand Composition 930

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	N
Standing Snags	R	R	N	
Deadfall / Logs	R	R	N	N

Species Dominance <10	Acer saccharum >Abies balsamea
Species Dominance 10-24	Acer saccharum
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	930

Community Age	
Ecosite	Dry-Fresh Sugar Maple Deciduous Forest ecosite
Ecosite Code	FOD5
Vegetation Type	Dry-Fresh Sugar Maple Deciduous Forest Type
Vegetation Type Code	FOD5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	801

Notes		Location	
		Latitude:45.853408959211606,Longitude:-80.57318410925154,Altitude:174.8063968680799,Speed:0.0,Accuracy:10.0,Provider:gps,Time:06/05/2015 12:01:56 EDT	
Dead			

Species	Tally	ID
Populus tremuloides	2.00	1449
Acer saccharum	1.00	1452

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		717
Location	Latitude:45.853388320370435,Longitude:-80.57321183099972,Altitude:171.55773161631078,Speed:0.0,Accuracy:25.0,Provider:gps,Time:06/05/2015 11:56:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	SiS
Horizon 2	50.00		SL
Horizon 3	90.00		LS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	LS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M34	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	936

Feature ID	ELC-N-M34(45)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 10:25:03 AM	Precipitation	0		
End Date	6/4/2015 11:08:01 AM	Cloud Cover	0.00		

Polygon Description 936

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 933

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Larix laricina, Picea mariana
Sub Canopy	5 >0.5-1m	2 10 - 25%	Nemopanthus mucronatum, Osmunda regalis
Shrub			
Groundcover	7 <0.2m	4 > 60%	Carex oligosperma >Carex aquatilis>Menyanthes trifoliata. Sphagnum 100 percent
Floating & Submerged		0 None	

Stand Composition 933

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		933
Community Age	Mature	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack treed fen type	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 804

Notes

Location



Dead 1.00

Species	Tally	ID
Picea mariana	1.00	1455

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		720
Location	Latitude:45.868263,Longitude:-80.676813,Altitude:185.1,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:06/04/2015 11:00:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Fibric organic
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	Very poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M34	Field Crew	KAMSTRA, PRASAD	939

Feature ID	ELC-N-M34(290)	Congruent Features	M34(291)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	6/4/2015 11:17:22 AM	Precipitation	0		
End Date	6/4/2015 11:34:24 AM	Cloud Cover	0.00		

Polygon Description 939

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 936

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis
Groundcover	6 >0.2-0.5m	2 10 - 25%	Deschampsia flexuosa -Vaccinium angustifolium >Aralia hispida
Floating & Submerged			

Stand Composition 936

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 936

Community Age	
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 807

Notes

Location

Latitude:45.867973,Longitude:-80.677851,Altitude:192.5,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/04/2015 11:32:03 EDT



Dead

Species	Tally	ID
Pinus banksiana	1.00	1458

Tree Tally 810

Notes

Location

Latitude:45.864621,Longitude:-80.673713,Altitude:190.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/04/2015 12:57:33 EDT



Dead

Species	Tally	ID
Pinus banksiana	2.00	1461

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M34	Field Crew	KAMSTRA, PRASAD	942

Feature ID	ELC-N-M34(91)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 12:02:26 PM	Precipitation	0		
End Date	6/4/2015 12:27:13 PM	Cloud Cover	35.00		

Polygon Description 942

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 939

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana >>Larix laricina
Sub Canopy	2 >6-25m	2 10 - 25%	
Shrub	4 >1-2m	4 > 60%	Nemopanthus mucronatum - Gaylussacia baccata
Groundcover	7 <0.2m	3 25 - 60%	Maianthemum trifoliata -Vaccinium angustifolium
Floating & Submerged			

Stand Composition 939

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 939

Community Age	Old Growth
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Mountain Holly shrub Fen Type
Vegetation Type Code	FES1-6
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 813

Notes

Dead

Location

Latitude:45.86455,Longitude:-80.674263,Altitude:190.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/04/2015 12:16:12 EDT



Species	Tally	ID
Picea mariana	7.00	1464
Pinus banksiana	1.00	1467
Larix laricina	1.00	1470

Soil Description

Pit ID 1 723

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.86455,Longitude:-80.674257,Altitude:190.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/04/2015 12:17:39 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	55.00	0.00	Fibric organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Very poor
Effective Texture	Organic

Pit ID	2	726

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Location	Latitude:45.864544,Longitude:-80.674225,Altitude:190.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/04/2015 12:24:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Fibric
Horizon 2	65.00		Humid
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Very poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M34	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	945

Feature ID	ELC-N-M34(337)	Congruent Features	M34(125), M(336)		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	2		
Start Date	6/4/2015 1:19:11 PM	Precipitation	0		
End Date	6/4/2015 1:43:22 PM	Cloud Cover	0.00		

Polygon Description 945

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Deciduous
Community	Swamp

Stand Species 942

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Alnus incana >Ilex verticillata
Sub Canopy			
Shrub	5 >0.5-1m	3 25 - 60%	Myrica gale
Groundcover	6 >0.2-0.5m	4 > 60%	Carex lacustris>>Calla palustris - Carex spp
Floating & Submerged		0 None	

Stand Composition 942

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		942
Community Age	Young	
Ecosite	Organic Thicket Swamp	
Ecosite Code	SWT3	
Vegetation Type	Alder Organic Thicket Swamp	
Vegetation Type Code	SWT3-1	
Inclusion	Sedge marsh	
Inclusion Code	MA	
Complex		
Complex Code		

Soil Description

Pit ID	1	729

Location	Latitude:45.863818,Longitude:-80.671231,Altitude:182.3,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:06/04/2015 01:32:00 EDT		Notes	Turns into Carex lacustris marsh vdownstream
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Fibric organic
Horizon 2	105.00	1.00	Humid organic
Horizon 3	120.00	0.00	Gray silt
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Organic

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M14	Field Crew	KAMSTRA CONOHAN PANAMICK	948

Feature ID	ELC-S-M14(147)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	0		
Start Date	6/5/2015 9:00:13 AM	Precipitation	1		
End Date	6/5/2015 9:31:14 AM	Cloud Cover	100.00		

Polygon Description 948

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 945

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera -Pinus bank
Sub Canopy			
Shrub	3 >2-6m	3 25 - 60%	Alnus incana > Ilex vedticlata
Groundcover	6 >0.2-0.5m	4 > 60%	Carex lacustris - Chamaedtaphne calyculata
Floating & Submerged		4 > 60%	Sphsgnum

Stand Composition 945

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 945

Community Age	Young
Ecosite	Birch-Poplar Organic Mixed Swamp Ecosite
Ecosite Code	SWM6
Vegetation Type	Birch-Conifer Organic Mixed Swamp Type
Vegetation Type Code	SWM6-1
Inclusion	Sedge marsh
Inclusion Code	MAS
Complex	
Complex Code	

Tree Tally 816

Notes

Dead 1.00

Location

Latitude:45.846334,Longitude:-80.635197,Altitude:196.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/05/2015 09:27:23 EDT



Species	Tally	ID
Betula papyrifera	3.00	1473

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		732
Location	Latitude:45.846344,Longitude:-80.635202,Altitude:197.2,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:06/05/2015 09:19:45 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Fjbric orgsnic
Horizon 2	50.00		Humi c organic
Horizon 3	80.00	70.00	Coarse sand and gravel
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Organic

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M34	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	951

Feature ID	ELC-N-M34(462)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 1:50:15 PM	Precipitation	0		
End Date	6/4/2015 2:30:00 PM	Cloud Cover	30.00		

Polygon Description 951

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Parent Mineral
Topographic Feature	Valley Slope
Plant Form	Coniferous
Community	Forest

Stand Species 948

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus strobus > Picea glauca > Betula papyrifera
Sub Canopy			
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communi
Groundcover	7 <0.2m	3 25 - 60%	Symphyotrichum macrophylla - Maianthemum canadense > Vaccinium angustifolia < Aralia nudicaulis
Floating & Submerged			

Stand Composition 948

	<10	10-24	25-50	>50
Size Class Analysis	O	R	A	N
Standing Snags				
Deadfall / Logs				

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 948

Community Age	
Ecosite	Dry - Fresh Pine Coniferous Forest Ecosite
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 819

Notes	
Dead	2.00

Location

Latitude:45.863847,Longitude:-80.670636,Altitude:181.6,Speed:0.2417889,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:07:40 EDT



Species	Tally	ID
Pinus strobus	10.00	1476
Picea glauca	1.00	1479
Acer rubra	1.00	1482

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		735
Location	Latitude:45.863862,Longitude:-80.670948,Altitude:187.4,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:17:23 EDT	Notes	Soil with many large boulders.
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	12.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Dry organic
Horizon 2	40.00		Loam
Horizon 3			
Horizon 4			

% Surface Stone	25.00
Moisture Regime	3
Drainage	Well to very well
Effective Texture	Loam

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M14	Field Crew	KAMSTRA CONOHAN	954

Feature ID	ELC-S-M14(586)	Congruent Features	M14(587), M14(588), M14(687)		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	0		
Start Date	6/5/2015 9:44:18 AM	Precipitation	1		
End Date	6/5/2015 10:02:51 AM	Cloud Cover	100.00		

Polygon Description 954

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 975

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus Banksiana
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	2 10 - 25%	Vaccinium angustifolia
Floating & Submerged		3 25 - 60%	Cladina sp

Stand Composition 975

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 975

Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 822

Notes

Location

Latitude:45.845996,Longitude:-80.635171,Altitude:204.2,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:06/05/2015 09:48:39 EDT



Dead 1.00

Species	Tally	ID
Pinus banksinia	1.00	1506

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M37	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	957

Feature ID	ELC-N-M37(261)	Congruent Features	M37(267), M37(255)		
Project Number	60341251	Air Temp. (degC)	26.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 3:11:50 PM	Precipitation	0		
End Date	6/4/2015 3:32:09 PM	Cloud Cover	0.00		

Polygon Description 957

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Plankton,Coniferous
Community	Swamp

Stand Species 951

	Height	Cover	Species Dominance
Canopy		3 25 - 60%	Picea mariana
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana
Shrub	4 >1-2m	4 > 60%	Kalmia angustifolia -Gaylussacia baccata >Nemopanthus mucronatum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Vaccinium angustifolia
Floating & Submerged			

Stand Composition 951

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 951

Community Age	Mature
Ecosite	Tamarack-black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 825

Notes

Location

Latitude:45.862877,Longitude:-80.680747,Altitude:185.3,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:06/04/2015 03:25:22 EDT



Dead 2.00

Species	Tally	ID
Picea mariana	10.00	1485
Pinus banksiana	1.00	1488

Tree Tally 828

Notes

Location

Latitude:45.867003,Longitude:-80.685756,Altitude:187.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/04/2015 05:14:40 EDT



Dead

Species	Tally	ID
Picea mariana	11.00	1491

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		738
Location	Latitude:45.862886,Longitude:-80.680743,Altitude:186.1,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/04/2015 03:28:20 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	40.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	62.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	45.00	0.00	Fibric organic
Horizon 2	62.00		Humic organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M37	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	960

Feature ID	ELC-N-M37(270)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	26.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 3:40:41 PM	Precipitation	0		
End Date	6/4/2015 3:40:46 PM	Cloud Cover	0.00		

Polygon Description 960

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 954

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana - Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata >>Rhododendron groenlandica
Groundcover		2 10 - 25%	Thin grass - Maianthemum trifoliata
Floating & Submerged			Sparganium 100 percent

Stand Composition 954

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 954

Community Age	Mature
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 831

Notes

Dead

Location

Latitude:45.863562,Longitude:-80.680929,Altitude:189.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/04/2015 04:03:54 EDT



Species	Tally	ID
Picea mariana	1.00	1494

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		741
Location	Latitude:45.863576,Longitude:-80.680913,Altitude:189.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/04/2015 03:55:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	80.00	0.00	Fibric organic
Horizon 2	120.00	0.00	Humid organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very. Poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M37	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	963

Feature ID	ELC-N-M37(296)	Congruent Features	M37(297), M37(467), M37(292), M37(293), M35(463)		
Project Number	60341251	Air Temp. (degC)	26.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2008 4:17:13 PM	Precipitation	0		
End Date	6/4/2015 4:34:01 PM	Cloud Cover	0.00		

Polygon Description 963

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Coniferous
Community	Barren

Stand Species 957

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy			
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis
Groundcover	6 >0.2-0.5m	1 0% - 10%	Vaccinium angustifolia _Agrostis scabra
Floating & Submerged			

Stand Composition 957

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 957

Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 834

Notes

Dead

Location

Latitude:45.863085,Longitude:-80.681834,Altitude:190.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/04/2015 04:21:39 EDT



Species	Tally	ID
Pinus banksiana	2.00	1497

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M37	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	966

Feature ID	ELC-N-M37(269)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 4:36:04 PM	Precipitation	0		
End Date	6/4/2015 4:49:45 PM	Cloud Cover	0.00		

Polygon Description 966

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 960

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Picea mariana
Sub Canopy			
Shrub	7 <0.2m	2 10 - 25%	Chamaedaphne calyculata >Kalmia polifolia
Groundcover			Thin graminoids unid., Sphagnum 100 percent,Carex utriculata
Floating & Submerged			

Stand Composition 960

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		960
Community Age		
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	744

Location	Latitude:45.863689,Longitude:-80.684246,Altitude:185.9,Speed:0.10288889,Accuracy:2.4,Provider:gps,Time:06/04/2015 04:47:14 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Organic fibric
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M37	Field Crew	JAMES KAMSTRA, AYESHA PRASAD	969

Feature ID	ELC-N-M37(36)	Congruent Features	M37(268)		
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM10	Wind Speed (beaufort)	1		
Start Date	6/4/2015 5:27:16 PM	Precipitation	0		
End Date	6/4/2015 5:42:30 PM	Cloud Cover	100.00		

Polygon Description 969

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Fen

Stand Species 963

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Picea mariana > Larix laricina
Sub Canopy			
Shrub	6 >0.2-0.5m	0 None	
Groundcover	6 >0.2-0.5m	4 > 60%	Carex utriculata >Chamaedaphne calyculata >Kalmia polifolia
Floating & Submerged			Sphagnum 100 percent

Stand Composition 963

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 963

Community Age	
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 837

Notes

Location



Dead

Species	Tally	ID
Picea mariana	1.00	1500

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		747
Location	Latitude:45.867131,Longitude:-80.687133,Altitude:188.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/04/2015 05:38:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	85.00	Fibric organic
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M13	Field Crew	KAMSTRA CONOHAN	972

Feature ID	ELC-S-M13(163)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	0		
Start Date	6/5/2015 10:37:19 AM	Precipitation	1		
End Date	6/5/2015 11:02:24 AM	Cloud Cover	100.00		

Polygon Description 972

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 966

	Height	Cover	Species Dominance
Canopy	7 <0.2m	0 None	
Sub Canopy			
Shrub	3 >2-6m	2 10 - 25%	Alnus incana
Groundcover	5 >0.5-1m	4 > 60%	Carex utriculata>>osmunda regalis
Floating & Submerged		0 None	

Stand Composition 966

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 966

Community Age	Mid-Age
Ecosite	Organic thicket swamp
Ecosite Code	SWT3
Vegetation Type	Alder organic thicket swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 840

Notes

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:

Dead

Species	Tally	ID
Speckled Alder	0.00	1503

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		750
Location	Latitude:45.842926,Longitude:-80.630129,Altitude:194.1,Speed:0.17491111,Accuracy:2.4,Provider:gps,Time:06/05/2015 11:02:27 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Fibric organic
Horizon 2	75.00	0.00	Very fine sandy silt
Horizon 3	95.00	19.00	Medium sand with fine gravel
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	8
Drainage	Very poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M14	Field Crew	KAMSTRA CONOHAN	975

Feature ID	ELC-S-M14(107)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	0		
Start Date	6/5/2015 11:20:19 AM	Precipitation	0		
End Date	6/5/2015 11:41:31 AM	Cloud Cover	100.00		

Polygon Description 975

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid
Community	Marsh

Stand Species 969

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Spirea alba = CHAMAE DAPHNE
Groundcover	6 >0.2-0.5m	4 > 60%	Carex stricta>>carex lacustra
Floating & Submerged		0 None	

Stand Composition 969

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		969
Community Age	Mid-Age	
Ecosite	Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type	Broad-leaved Sedge Mineral Shallow Marsh	
Vegetation Type Code	MAS2-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	753

Location	Latitude:45.843734,Longitude:-80.629842,Altitude:197.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/05/2015 11:39:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	40.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Fibric organic
Horizon 2	50.00	0.00	Medium silty sand
Horizon 3	120.00	0.00	Gray silt
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	Very poor
Effective Texture	Sand

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M14	Field Crew	KAMSTRA CONOHAN	978

Feature ID	ELC-S-M14(43)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	6/5/2015 11:46:33 AM	Precipitation	0		
End Date	6/5/2015 11:55:28 AM	Cloud Cover	100.00		

Polygon Description 978

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Floating-LVD
Community	Pond

Stand Species 972

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover		0 None	Brasenia schreberi
Floating & Submerged		2 10 - 25%	Brasenia schreberi

Stand Composition 972

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	972
Community Age	Mid-Age
Ecosite	Floating-leaved shallow aquatic
Ecosite Code	SAF1
Vegetation Type	Water lily-bullhead lily floating-leaved shallow a
Vegetation Type Code	SAF1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M11	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	981

Feature ID	ELC-S-M11(574)	Congruent Features	M11(510)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0	Rained earlier this night	
Start Date	6/5/2015 8:25:14 AM	Precipitation	0		
End Date	6/5/2015 8:49:22 AM	Cloud Cover	100.00		

Polygon Description 981

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Barren

Stand Species 978

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >>> Pinus strobus
Sub Canopy	4 >1-2m	2 10 - 25%	Pinus banksiana >> acer rubrum > Betula papyifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis >> acer rubrum
Groundcover	6 >0.2-0.5m	4 > 60%	Lichen sp. > vaccinium angustifolium = grass sp. > sedge sp. >maianthemum canadensis > aralia hispida
Floating & Submerged			

Stand Composition 978

	<10	10-24	25-50	>50
Size Class Analysis	A	N	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	978
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Mountain holly organic thicket swamp
Complex Code	SWT3-8

Additional Notes

Congruent feature ELC-S-M11 (510) doesn't have the SWT3-8 inclusion

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M11	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	984

Feature ID	ELC-S-M11(572)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	6/5/2015 9:58:05 AM	Precipitation	0		
End Date	6/5/2015 10:39:40 AM	Cloud Cover	0.00		

Polygon Description 984

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 981

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum > Betula papyifera > Populous tremuloides > Quercus rubra
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > corylus cornuta > Pinus strobus
Shrub	4 >1-2m	4 > 60%	Ilex verticilata> Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Aralia nudicaulis > maianthemum canadense > grass sp. > trientalis borealis > Athyrium filix-femina
Floating & Submerged			

Stand Composition 981

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Ilex verticilata acer rubrum
Species Dominance 10-24	Acer rubrum populous tremuloides
Species Dominance 25-50	Betula papyrifera populous tremuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 981

Community Age	Mid-Age
Ecosite	Maple mineral deciduous swamp
Ecosite Code	SWD3
Vegetation Type	Red Maple Mineral Deciduous Swamp
Vegetation Type Code	SWD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 843

Notes

Dead 1.00

Location

Latitude:45.856856,Longitude:-80.619496,Altitude:200.3,Speed:0.19034444,Accuracy:2.1,Provider:gps,Time:06/05/2015 10:30:15 EDT



Species	Tally	ID
Acer rubrum	10.00	1509
Betula papyifera	7.00	1512
Pinus strobus	2.00	1515

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		756
Location	Latitude:45.856829,Longitude:-80.619519,Altitude:199.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/05/2015 10:17:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	30.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Fibrin organic
Horizon 2	15.00		Loamy very fine and
Horizon 3	30.00		Siltysand loam
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Imperfect
Effective Texture	Silty clay loam

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M10	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	987

Feature ID	ELC-S-M10(671)	Congruent Features	M10(511), M10(512), M10(507), M10(506), M10(570)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	6/5/2015 11:04:58 AM	Precipitation	0		
End Date	6/5/2015 11:13:57 AM	Cloud Cover	100.00		

Polygon Description 987

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 984

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Eriophorum rubrum > Pinus strobus >>Quercus rubra
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis >> Pteridium aquilinum > comptonia peregrina
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen sp.> vaccinium angustifolium > moss sp.> grass sp.
Floating & Submerged			

Stand Composition 984

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Acer rubrum pinus banksiana Quercus rubra
Species Dominance 10-24	Pinus banksiana pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		984
Community Age	Mature	
Ecosite	Acidic treed rock barren	
Ecosite Code	RBT3	
Vegetation Type	Jack Pine Acidic Treed Rock Barren	
Vegetation Type Code	RBT3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

There a lot if red oak throughout all of the congruent rock barren features indicative of a mast producing site; see SWH forms

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M10	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	990

Feature ID	ELC-S-M10(571)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	0		
Start Date	6/5/2015 11:53:37 AM	Precipitation	0		
End Date	6/5/2015 12:40:19 PM	Cloud Cover	100.00		

Polygon Description 990

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Forest

Stand Species 987

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana= Abies balsamea = Acer spicatum = Quercus rubra > Acer rubrum>Betula papyifera > Pinus strobus
Sub Canopy	3 >2-6m	3 25 - 60%	Quercus rubra > Pinus strobus > Acer spicatum
Shrub	4 >1-2m	3 25 - 60%	Quercus rubra > Picea mariana> viburnum cassinoides > Pinus strobus
Groundcover	6 >0.2-0.5m	4 > 60%	Viccinium angustifolium > mainanthemum canadense> cornus canadensis > clintonia borealis
Floating & Submerged			

Stand Composition 987

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Quercus rubra
Species Dominance 10-24	Abies balsamea Quercus rubra pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 987

Community Age	Mature
Ecosite	Dry-Fresh White Pine-Maple-Oak Mixed Forest Ecosit
Ecosite Code	FOM2
Vegetation Type	Dry-Fresh White-Oak Mixed Forest Type
Vegetation Type Code	FOM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 846

Notes

Dead 1.00

Location

Latitude:45.856758,Longitude:-80.612658,Altitude:198.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/05/2015 12:23:53 EDT



Species	Tally	ID
Pinus strobus	4.00	1518
Quercus rubra	3.00	1521
Acer rubrum	3.00	1524
Abies balsamea	1.00	1527

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		759
Location	Latitude:45.856744,Longitude:-80.612678,Altitude:197.6,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/05/2015 12:13:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	me sick organic
Horizon 2	15.00		Humic organic
Horizon 3	40.00	0.00	Clay loam
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Very poor
Effective Texture	Clay loam

Additional Notes

No old ELC code suitable for this polygon. The best appropriate elc code that represents this community is from the new ELC which is Fresh moist balsam fir hardwood mixed forest FOMM10-1

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M10	Field Crew	OLGA HROPACH SARAH RICHER KASEY MCKENZIE	993

Feature ID	ELC-S-M10(195)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	1		
Start Date	6/5/2015 1:03:52 PM	Precipitation	0		
End Date	6/5/2015 1:30:16 PM	Cloud Cover	100.00		

Polygon Description 993

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Forest

Stand Species 990

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum> Quercus rubra> white pine>Betula papyifera> Populous tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Quercus rubra> Acer rubrum> Abies balsamea > Pinus strobus
Shrub			Corylus cornuta > Pteridium aquilinum > Quercus rubra = Pinus strobus > Abies balsamea
Groundcover	6 >0.2-0.5m	4 > 60%	Mainthemum canadense > trientalis borealis > aralia nudicaulis > Quercus rubra> tiara trifoliata
Floating & Submerged			

Stand Composition 990

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus strobus abies balsamea Quercus rubra
Species Dominance 10-24	Acer rubrum pinus strobus
Species Dominance 25-50	Acer rubrum
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 990

Community Age	Mature
Ecosite	Dry-Fresh White Pine-Maple-Oak Mixed Forest Ecosit
Ecosite Code	FOM2
Vegetation Type	Dry-Fresh White Pine-Oak Mixed Forest Type
Vegetation Type Code	FOM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 849

Notes

Dead 2.00

Location

Latitude:45.855847,Longitude:-80.610131,Altitude:196.3,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:06/05/2015 01:21:35 EDT



Species	Tally	ID
Acer rubrum	4.00	1530
Pinus strobus	1.00	1533
Betula papyifera	2.00	1536
Populous tremuloides	2.00	1539

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		762
Location	Latitude:45.855885,Longitude:-80.610083,Altitude:197.0,Speed:0.19548889,Accuracy:2.1,Provider:gps,Time:06/05/2015 01:16:17 EDT	Notes	
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Fibric organic
Horizon 2	15.00		Medium sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately dry
Drainage	Very rapid
Effective Texture	Medium sand

Additional Notes

Fom3-1 is not the best code but closest, there are no hemlock here but there are balsam fir and soils indicating drier conditions

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M6	Field Crew	OLGA HROPACH SARAH RICHER	996

Feature ID	ELC-N-M6(111)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/4/2015 1:45:25 PM	Precipitation	0		
End Date	6/4/2015 2:16:46 PM	Cloud Cover	30.00		

Polygon Description 996

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 993

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina>Picea mariana
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina>Picea mariana
Shrub	5 >0.5-1m	2 10 - 25%	Ledum groenlandicum>Kalmia polifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 993

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina>Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	993

Community Age	Mature
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	852

Notes	Very few small trees	Location	
Dead			

Species	Tally	ID
Very few small trees		1542

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	No pit - organic		765
Location	Latitude:45.873418,Longitude:-80.610888,Altitude:194.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:05:12 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Organic

Additional Notes

Not leatherleaf, but Labrador tea

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M6	Field Crew	OLGA HROPACH SARAH RICHER	999

Feature ID	ELC-N-M6(358b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/4/2015 2:38:35 PM	Precipitation	0		
End Date	6/4/2015 2:53:05 PM	Cloud Cover	50.00		

Polygon Description 999

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 996

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina
Sub Canopy	4 >1-2m	2 10 - 25%	Larix laricina>Ilex mucronata
Shrub	6 >0.2-0.5m	3 25 - 60%	Kalmia angustifolia>Chamaedaphne calyculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp>>Carex utriculata
Floating & Submerged		0 None	

Stand Composition 996

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		996
Community Age	Mature	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack treed fen type	
Vegetation Type Code	FET1-1	
Inclusion	Beaked sedge open fen type	
Inclusion Code	FEO1-5	
Complex		
Complex Code		

Soil Description		768
Pit ID	No pit - organic	

Location	Latitude:45.874441,Longitude:-80.612639,Altitude:200.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/04/2015 02:41:29 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Organic

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M6	Field Crew	OLGA HROPACH SARAH RICHER	1002

Feature ID	ELC-N-M6(358)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM19	Wind Speed (beaufort)	1		
Start Date	6/5/2015 12:36:50 PM	Precipitation	0		
End Date	6/5/2015 2:40:55 PM	Cloud Cover	30.00		

Polygon Description 1002

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rolling Upland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 999

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana>Pinus strobus>Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis
Groundcover	7 <0.2m	4 > 60%	Lichen spp=Moss spp>Vaccinium spp
Floating & Submerged		0 None	

Stand Composition 999

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Pinus banksiana>Pinus strobus>Betula papyrifera
Species Dominance 10-24	Pinus banksiana>Pinus strobus>Populus tremuloides
Species Dominance 25-50	Pinus strobus>Populus tremuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		999
Community Age	Mature	
Ecosite	Acidic Treed rock barren ecosite	
Ecosite Code	RBT3	
Vegetation Type	Jack pine acidic treed rock barren type	
Vegetation Type Code	RBT3-2	
Inclusion	Maple mineral mixed swamp ecosite	
Inclusion Code	SWM2	
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M15	Field Crew	KASEY & NATALIYA	1005

Feature ID	ELC-S-M15(688)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/8/2015 9:50:24 AM	Precipitation	0		
End Date	6/8/2015 10:11:56 AM	Cloud Cover	100.00		

Polygon Description 1005

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1005

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban > acerrub
Sub Canopy	3 >2-6m	2 10 - 25%	Pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Junicom > vaccang > compper > prunpum
Groundcover	7 <0.2m	4 > 60%	Lichen > arctuva > grass sp > astemac
Floating & Submerged		0 None	

Stand Composition 1005

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1005

Community Age	Mid-Age
Ecosite	Acidic Treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	855

Notes		Location	Latitude:45.839765,Longitude:-80.63147,Altitude:199.8,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:06/08/2015 10:12:58 EDT
Dead	1.00		



Species	Tally	ID
Na		1545

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M15	Field Crew	KASEY & NATALIYA	1008

Feature ID	ELC-S-M15(406)	Congruent Features	M15(407)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/8/2015 10:32:36 AM	Precipitation	0		
End Date	6/8/2015 10:47:19 AM	Cloud Cover	100.00		

Polygon Description 1008

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 1008

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Larilar > pinuban
Sub Canopy	3 >2-6m	4 > 60%	Larilar > pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Chamcal > ledugro > kalmang > kalmpol
Groundcover	7 <0.2m	4 > 60%	Sphagnum > Carestr > vaccoxy
Floating & Submerged		0 None	

Stand Composition 1008

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larilar > pinuban
Species Dominance 10-24	Larilar > pinuban
Species Dominance 25-50	Pinustr
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1008

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	858

Notes		Location	Latitude:45.839533,Longitude:-80.632385,Altitude:188.5,Speed:0.30866668,Accuracy:1.5,Provider:gps,Time:06/08/2015 10:46:44 EDT
Dead			



Species	Tally	ID
Larilar	2.00	1548
Pinustr	1.00	1551

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		771
Location	Latitude:45.839543,Longitude:-80.632381,Altitude:187.6,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:06/08/2015 10:43:54 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	250.00	Gley	
Slope Percent	12.00	Water Table	
Slope Length (m)	15.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Of
Horizon 2	75.00	0.00	Om
Horizon 3	120.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M19	Field Crew	KASEY & NATALIYA	1011

Feature ID	ELC-S-M19(244)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	5		
Start Date	6/8/2015 11:46:29 AM	Precipitation	0		
End Date	6/8/2015 12:01:21 PM	Cloud Cover	80.00		

Polygon Description 1011

System	Wetland
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD
Community	Marsh

Stand Species 1011

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover	6 >0.2-0.5m	0 None	
Floating & Submerged		4 > 60%	Nuphvar > nuphpum > myriver

Stand Composition 1011

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1011
Community Age	Mid-Age
Ecosite	Floating - leaved shallow aquatic
Ecosite Code	SAF1
Vegetation Type	Water lily-bullhead lily floating-leaved shallow a
Vegetation Type Code	SAF1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M19	Field Crew	KASEY & NATALIYA	1014

Feature ID	ELC-S-M19(451)	Congruent Features	M19(454), M19(453)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/8/2015 12:09:13 PM	Precipitation	0		
End Date	6/8/2015 12:27:35 PM	Cloud Cover	90.00		

Polygon Description 1014

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 1014

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	1 0% - 10%	Pinuban
Shrub	5 >0.5-1m	4 > 60%	Chamcol > kalmpol > vaccang
Groundcover	7 <0.2m	4 > 60%	Sphagnum > miaitri > vaccoxy > calapal
Floating & Submerged		0 None	

Stand Composition 1014

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinuban > larilar
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1014

Community Age	Mid-Age
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf - forb shrub fen
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	861

Notes		Location	
		Latitude:45.835486,Longitude:-80.624304,Altitude:195.3,Speed:0.46814445,Accuracy:1.5,Provider:gps,Time:06/08/2015 12:24:11 EDT	
Dead	1.00		

Species	Tally	ID
Na		1554

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		774
Location	Latitude:45.835474,Longitude:-80.62431,Altitude:199.0,Speed:0.087455556,Accuracy:1.25,Provider:gps,Time:06/08/2015 12:10:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	103.00	Gley	
Slope Percent	6.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	50.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M19	Field Crew	KASEY & NATALIYA	1017

Feature ID	ELC-S-M19(526)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/8/2015 12:44:48 PM	Precipitation	0		
End Date	6/8/2015 1:25:58 PM	Cloud Cover	100.00		

Polygon Description 1017

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Coniferous
Community	Barren

Stand Species 1017

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinuban
Sub Canopy			Pinuban > acerrub
Shrub	6 >0.2-0.5m	3 25 - 60%	Junicom > vaccang > dierlon > climpar
Groundcover	7 <0.2m	4 > 60%	Cladina sp > descflu > maiacan > gaulpro
Floating & Submerged		0 None	

Stand Composition 1017

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1017
Community Age	Mature
Ecosite	Acidic Treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Oak - red maple - pine basic treed rock barren
Complex Code	RBT2-1

Tree Tally	864

Notes		Location	Latitude:45.832169,Longitude:-80.621097,Altitude:188.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/08/2015 01:20:36 EDT
Dead	2.00		



Species	Tally	ID
Pinuban	2.00	1557

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M19	Field Crew	KASEY & NATALIYA	1020

Feature ID	ELC-S-M19(179)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/8/2015 2:07:33 PM	Precipitation	0		
End Date	6/8/2015 2:24:50 PM	Cloud Cover	100.00		

Polygon Description 1020

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Fen

Stand Species 1020

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		3 25 - 60%	Spiralb > chamcal > nemomac
Groundcover	7 <0.2m	4 > 60%	Carex sp > scircyp > calacan > rubupub
Floating & Submerged		0 None	

Stand Composition 1020

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	A	O	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1020

Community Age	Mid-Age
Ecosite	Mineral thicket swamp
Ecosite Code	SWT2
Vegetation Type	Meadowsweet mineral thicket swamp
Vegetation Type Code	SWT2-6
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	867

Notes		Location	
		Latitude:45.830289,Longitude:-80.622994,Altitude:191.5,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:22:58 EDT	
Dead	3.00		

Species	Tally	ID
Na		1560

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		777
Location	Latitude:45.83028,Longitude:-80.622944,Altitude:189.1,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:14:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	81.00	Gley	
Slope Percent	11.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Of
Horizon 2	20.00	0.00	LfS
Horizon 3	60.00		SifS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	3
Effective Texture	SifS

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m32	Field Crew	JASON NORONHA. JAMES. KAMSTRA	1023

Feature ID	Elc-s-m32(111)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/8/2015 10:02:49 AM	Precipitation	0		
End Date	6/8/2015 10:20:42 AM	Cloud Cover	95.00		

Polygon Description 1023

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid,Forb
Community	Bog

Stand Species 1023

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	0 None	Chamaedaphne calyculata > kalmia angustifolia>Larix lariciana
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp= carix spp=Eriophorum vaginatum
Floating & Submerged		0 None	

Stand Composition 1023

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1023

Community Age	Mid-Age
Ecosite	Graminoid Open Bog Ecosite
Ecosite Code	BOO1
Vegetation Type	Cotton grass open bog
Vegetation Type Code	BOO1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	870

Notes		Location	
		Latitude:45.834088,Longitude:-80.65738,Altitude:192.3,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/08/2015 10:12:09 EDT	
Dead			

Species	Tally	ID
Na		1563

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		780
Location	Latitude:45.834089,Longitude:-80.657377,Altitude:192.5,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:06/08/2015 10:12:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	110.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Of
Horizon 2	110.00		fS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m32	Field Crew	JASON NORONHA. JAMES KAMSTRA	1026

Feature ID	Elc-s-m32(517)	Congruent Features	M32(35), M32(609), M32(704), M32(518)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 10:39:04 AM	Precipitation	0		
End Date	6/8/2015 10:47:15 AM	Cloud Cover	95.00		

Polygon Description 1026

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 1026

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >>Pinus strobus
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis >Vaccinium angustifolium >pinus banksiana
Groundcover	5 >0.5-1m	3 25 - 60%	CLADONIA SPP>Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1026

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1026

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	873

Notes		Location	
		Latitude:45.833951,Longitude:-80.655876,Altitude:193.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/08/2015 10:46:15 EDT	
Dead	1.00		

Species	Tally	ID
Pinus banksiana	1.00	1566
Pinus strobus	1.00	1569

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m32	Field Crew	JASON NORONHA. JAMES KAMSTRA	1029

Feature ID	Elc-s-m32(196)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/8/2015 10:59:11 AM	Precipitation	0		
End Date	6/8/2015 11:36:34 AM	Cloud Cover	90.00		

Polygon Description 1029

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1029

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus >Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubrum Betula papyrifera >pinus strobus
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum >Corylus cornuta
Groundcover	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum>Cornus canadensis>Maianthemum canadense =Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1029

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	R	O	N	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Betula papyrifera >Acer rubrum
Species Dominance 25-50	Pinus strobus >Betula papyrifera >Acer rubrum
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1029

Community Age	Mid-Age
Ecosite	Dry-fresh white birch-poplar-conifer mixed forest
Ecosite Code	FOM5
Vegetation Type	Dry-fresh white birch mixed forest
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	876

Notes		Location	
		Latitude:45.832519,Longitude:-80.655267,Altitude:193.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:14:47 EDT	
Dead			

Species	Tally	ID
Betula papyrifera	1.00	1572
Pinus strobus	4.00	1575

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		783
Location	Latitude:45.83252,Longitude:-80.655251,Altitude:193.3,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/08/2015 11:19:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	50.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	3.00	Water Table	55.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	mS
Horizon 2	0.00		
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	4
Effective Texture	mS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m32	Field Crew	JASON NORONHA. JAMES KAMSTRA	1032

Feature ID	Elc-s-m32(518a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 11:57:01 AM	Precipitation	0		
End Date	6/8/2015 12:10:26 PM	Cloud Cover	100.00		

Polygon Description 1032

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Bog

Stand Species 1032

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus
Sub Canopy	2 >6-25m	2 10 - 25%	Picea mariana <Larix laricina >Pinus banksiana
Shrub	4 >1-2m	3 25 - 60%	Larix laricina >Chamaedaphne calyculata >Picea mariana
Groundcover	5 >0.5-1m	3 25 - 60%	SPHAGUM spp>Vacccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1032

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Pinus banksiana >Larix laricina
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1032

Community Age	Mid-Age
Ecosite	Coniferous Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	879

Notes		Location	Latitude:45.831036,Longitude:-80.653335,Altitude:198.0,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:06/08/2015 12:05:56 EDT
Dead			



Species	Tally	ID
Pinus strobus	1.00	1578
Larix laricina	1.00	1581

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		786
Location	Latitude:45.831029,Longitude:-80.653327,Altitude:197.6,Speed:0.07202222,Accuracy:1.5,Provider:gps,Time:06/08/2015 12:09:13 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	0.00	Of
Horizon 2	70.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	9
Effective Texture	Oh

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m35	Field Crew	JASON NORONHA. JAMES KAMSTRA	1035

Feature ID	Elc-s-m35(710)	Congruent Features	M35(616), M35(486), M35(614), M35(440), M35(439)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 12:58:35 PM	Precipitation	0		
End Date	6/8/2015 1:06:40 PM	Cloud Cover	100.00		

Polygon Description 1035

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Coniferous
Community	Barren

Stand Species 1035

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana>pinus strobus >Populus grandidentata
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus
Shrub	5 >0.5-1m	4 > 60%	Juniperus communis >
Groundcover	5 >0.5-1m	2 10 - 25%	Vaccinium angustifolium =cladonia spp>Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1035

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus strobus
Species Dominance 10-24	Pinus banksiana >Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1035

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	882

Notes		Location	
		Latitude:45.82807,Longitude:-80.658113,Altitude:198.7,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:06/08/2015 01:06:54 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	1.00	1584

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m35	Field Crew	JASON NORONHA. JAMES KAMSTRA	1038

Feature ID	ELC-S-M35(613)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 1:23:32 PM	Precipitation	0		
End Date	6/8/2015 1:52:06 PM	Cloud Cover	100.00		

Polygon Description 1038

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Woodland

Stand Species 1038

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Betula papyrifera >Populus tremuloides
Sub Canopy	2 >6-25m	2 10 - 25%	Betula papyrifera >Picea glauca
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta >cornus rugosa
Groundcover	5 >0.5-1m	3 25 - 60%	Aralia nudicaulis >PTERIDIUM Aquilinum >Rubus ideaus
Floating & Submerged		0 None	

Stand Composition 1038

	<10	10-24	25-50	>50
Size Class Analysis	N	O	O	N
Standing Snags	N	N	R	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	Picea glauca
Species Dominance 25-50	Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1038

Community Age	Mid-Age
Ecosite	Bedrock cultural woodland
Ecosite Code	CUW2
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	885

Notes		Location	
		Latitude:45.82756,Longitude:-80.659958,Altitude:188.6,Speed:0.087455556,Accuracy:1.5,Provider:gps,Time:06/08/2015 01:46:55 EDT	
Dead			

Species	Tally	ID
Betula papyrifera	2.00	1587
Populus tremuloides	1.00	1590

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		789
Location	Latitude:45.827557,Longitude:-80.659958,Altitude:189.3,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/08/2015 01:48:03 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	4.00	cS
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	0
Effective Texture	cS

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m35	Field Crew	JASON NORONHA. JAMES KAMSTRA	1041

Feature ID	Elc-s-m35(37)	Congruent Features	M35(44)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 1:56:52 PM	Precipitation	0		
End Date	6/8/2015 2:06:19 PM	Cloud Cover	90.00		

Polygon Description 1041

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid,Bryophyte
Community	Marsh

Stand Species 1041

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover	4 >1-2m	4 > 60%	Typha lactiflora >carix spp
Floating & Submerged		0 None	

Stand Composition 1041

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	R	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1041
Community Age	Mid-Age	
Ecosite	Graminoid Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type		
Vegetation Type Code	MAS2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	792

Location	Latitude:45.827442,Longitude:-80.660176,Altitude:186.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:02:14 EDT		Notes	
			Depth to: (cm)	
Slope Position	6 Level		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	
Slope Length (m)	10.00		Carbonates	
			Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Of
Horizon 2	15.00	0.00	Cl
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	8
Effective Texture	Cl

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M35	Field Crew	JASON NORONHA. JAMES KAMATRA	1044

Feature ID	ELC-S-M35(486a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	2		
Start Date	6/8/2015 3:09:03 PM	Precipitation	0		
End Date	6/8/2015 3:22:34 PM	Cloud Cover	100.00		

Polygon Description 1044

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Forest

Stand Species 1044

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides>Picea glauca
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus strobus >pinus resinosa
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta >Populus tremuloides >
Groundcover	5 >0.5-1m	4 > 60%	Aralia nudicaulis >aster macrophyllus>Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1044

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Populus tremuloides
Species Dominance 10-24	Pinus strobus >Populus tremuloides
Species Dominance 25-50	Populus t >pinus resinosa
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1044
Community Age	Mid-Age	
Ecosite	Dry-fresh white birch-poplar -conifer mixed forest	
Ecosite Code	FOM5	
Vegetation Type	Dry-fresh poplar mixed forest	
Vegetation Type Code	FOM5-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 888

Notes

Dead 1.00

Location

Latitude:45.828528,Longitude:-80.666626,Altitude:182.2,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/08/2015 03:16:39 EDT



Species	Tally	ID
Populus tremuloides	7.00	1593
Pinus resinosa	2.00	1596

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		795
Location	Latitude:45.828529,Longitude:-80.666619,Altitude:182.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/08/2015 03:17:50 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	0
Effective Texture	Of

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-m35	Field Crew	JASON NORONHA. JAMES KAMSTRA	1047

Feature ID	Elc-s-m35(7)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM14	Wind Speed (beaufort)	1		
Start Date	6/8/2015 3:35:20 PM	Precipitation	0		
End Date	6/8/2015 3:50:19 PM	Cloud Cover	100.00		

Polygon Description 1047

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Tableland
Plant Form	Graminoid
Community	Swamp

Stand Species 1047

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Ilex verticillata > Alnus incana
Groundcover	5 >0.5-1m	3 25 - 60%	Carix spp>Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 1047

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N		N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1047
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	798

Location	Latitude:45.82966,Longitude:-80.665395,Altitude:182.1,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/08/2015 03:47:43 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	45.00		Si
Horizon 3	100.00	5.00	SiCl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	SiCl

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M17	Field Crew	ADAM, JULIE	1068

Feature ID	ELC-N-M17(119)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/8/2015 9:28:29 AM	Precipitation	0		
End Date	6/8/2015 10:14:42 AM	Cloud Cover	100.00		

Polygon Description 1068

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Graminoid,Bryophyte,Deciduous,Coniferous
Community	Marsh

Stand Species 1068

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Pinus banksiana
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex sp.
Floating & Submerged		0 None	

Stand Composition 1068

	<10	10-24	25-50	>50
Size Class Analysis	R	A	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification

1068

Community Age	Young
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite
Ecosite Code	SWT2
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID: 1

816

Location	Latitude:45.881211,Longitude:-80.642911,Altitude:193.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/08/2015 09:32:36 EDT	Notes	Aspect 120Could not get soil out past 40 cm (too thin to remain in auger); depth to bedrock unknown
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	25.00		Om
Horizon 3	40.00	10.00	LmS
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	0
Drainage	2
Effective Texture	LmS

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M17	Field Crew	ADAM, JULIE	1071

Feature ID	ELC-N-M17(387)	Congruent Features	M17(441), M17(435)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/8/2015 11:56:56 AM	Precipitation	0		
End Date	6/8/2015 12:13:21 PM	Cloud Cover	100.00		

Polygon Description 1071

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1071

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina = Stereocaulon tomentosum > deschampsia ceptocita = mosses
Floating & Submerged		0 None	

Stand Composition 1071

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1071

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	Dry - fresh white birch deciduous forest
Inclusion Code	FOD3-2
Complex	Black spruce treed bog
Complex Code	BOT1-1

Tree Tally	900

Notes		Location	Latitude:45.877793,Longitude:-80.642191,Altitude:194.5,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:06/08/2015 12:08:02 EDT
Dead	1.00		



Species	Tally	ID
Pinus banksiana	1.00	1617

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M17	Field Crew	ADAM, JULIE	1074

Feature ID	ELC-N-M17(433)	Congruent Features	M17(434)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/8/2015 11:06:05 AM	Precipitation	0		
End Date	6/8/2015 11:34:29 AM	Cloud Cover	80.00		

Polygon Description 1074

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1074

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana > Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > Picea mariana
Shrub	5 >0.5-1m	4 > 60%	Carex utriculata=Leduc groelandium= Nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1074

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1074
Community Age	Mid-Age	
Ecosite	Tamarack - black spruce organic coniferous swamp	
Ecosite Code	SWC4	
Vegetation Type	Tamarack - black spruce organic coniferous swamp	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 903

Notes		Location	
		Latitude:45.876105,Longitude:-80.641428,Altitude:191.8,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/08/2015 11:28:18 EDT	
Dead	1.00		

Species	Tally	ID
Picea mariana	1.00	1620
Larix laricina	1.00	1623

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		819
Location	Latitude:45.876112,Longitude:-80.641449,Altitude:188.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/08/2015 11:12:54 EDT	Notes	Aspect 130Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	100.00	0.00	Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Organic

Additional Notes

Community has sphagnum and grassy hummocks



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	N-M17	Field Crew	ADAM, JULIE	1077

Feature ID	ELC-N-M17(98)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/8/2015 12:34:23 PM	Precipitation	0		
End Date	6/8/2015 1:20:35 PM	Cloud Cover	95.00		

Polygon Description 1077

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Deciduous,Coniferous
Community	Fen

Stand Species 1077

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy	5 >0.5-1m	1 0% - 10%	Picea mariana
Shrub	5 >0.5-1m	4 > 60%	Carex lacustris = Chamaedaphne calyculata > Carex utriculata
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp. > Menyanthes trifolata > Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 1077

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1077
Community Age	Mid-Age	
Ecosite	Shrub fen	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf - Forb Shrub Fen	
Vegetation Type Code	FES1-4	
Inclusion	Black spruce organic coniferous swamp	
Inclusion Code	SWC4-3	
Complex		
Complex Code		

Soil Description		822
Pit ID	1	

Location	Latitude:45.880362,Longitude:-80.644459,Altitude:193.1,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/08/2015 12:58:50 EDT	Notes	Aspect 240Did not hit bedrock	
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	100.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Om
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	7
Effective Texture	Organic

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Small RBT patch



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M5	Field Crew	ADAM, JULIE	1080

Feature ID	ELC-S-M5(157)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/8/2015 3:53:15 PM	Precipitation	0		
End Date	6/8/2015 4:40:09 PM	Cloud Cover	90.00		

Polygon Description 1080

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1080

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea > Populus tremuloides = Acer saccharum
Sub Canopy	3 >2-6m	2 10 - 25%	Acer saccharum
Shrub	4 >1-2m	3 25 - 60%	Aralia nudicaulis > Acer saccharum
Groundcover	6 >0.2-0.5m	3 25 - 60%	Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1080

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	N	R	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea > Populus tremuloides
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 1080

Community Age	Mid-Age
Ecosite	Fresh-Moist Poplar-White Birch Mixed Forest Ecosit
Ecosite Code	FOM8
Vegetation Type	Fresh-Moist Poplar Mixed Forest Type
Vegetation Type Code	FOM8-1
Inclusion	Maple organic mixed swamp ecosite
Inclusion Code	SWM5
Complex	
Complex Code	

Tree Tally 906

Notes

Location

Latitude:45.848025,Longitude:-80.581089,Altitude:195.0,Speed:0.025722222,Accuracy:2.7,Provider:gps,Time:06/08/2015 04:25:50 EDT



Dead 1.00

Species	Tally	ID
Populus tremuloides	3.00	1626
Acer rubrum	3.00	1629
Abies balsamea	2.00	1632

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		825
Location	Latitude:45.848053,Longitude:-80.580945,Altitude:185.9,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:06/08/2015 03:56:00 EDT	Notes	Aspect 110
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	35.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	6.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	vfS
Horizon 2	20.00		LvfS
Horizon 3	50.00	0.00	L
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	5
Effective Texture	L

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M22	Field Crew	AYESHA ROB CORY	1113

Feature ID	ELC-S-M22(404)	Congruent Features	M22(405)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/8/2015 11:28:00 AM	Precipitation	0		
End Date	6/8/2015 12:04:15 PM	Cloud Cover	0.00		

Polygon Description 1113

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1113

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus Banksiana >> Quercus Rubra
Sub Canopy	4 >1-2m	1 0% - 10%	Acer rubrum
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus Communis
Groundcover	7 <0.2m	2 10 - 25%	Vaccinium Angustifolium >> Deschampsia Flexuosa
Floating & Submerged			

Stand Composition 1113

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Pinus Banksiana
Species Dominance 10-24	Quercus rubra
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1113
Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	BOS2-1, RBT2-1
Inclusion Code	BOS2-1 , RBT2-1
Complex	Jack Pine Treed Rock Barren
Complex Code	RBT3-2

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M22	Field Crew	AYESHA ROB CORY	1116

Feature ID	ELC-S-M22(25)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	6/8/2015 12:09:52 PM	Precipitation	0		
End Date	6/8/2015 1:31:08 PM	Cloud Cover	100.00		

Polygon Description 1116

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Forest

Stand Species 1116

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer Rubrum>>Populus grandidentata>Quercus rubra>Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Populus Grandidentata > Pinus strobus = Quercus rubra
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum >>Quercus Rubra>Lonicera canadensis = Amelanchier Arborea
Groundcover	6 >0.2-0.5m	3 25 - 60%	Aster Macrophyllus> Maianthemum Canadense > Aralia nudicaulis>Pteridium aquilinum=Gaultheria procumbens
Floating & Submerged			

Stand Composition 1116

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	O	O	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer Rubrum
Species Dominance 10-24	Acer Rubrum
Species Dominance 25-50	Populus Grandidentata
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1116

Community Age	
Ecosite	Dry-Fresh Oak-Maple-Hickory Deciduous Forest Ecosi
Ecosite Code	FOD2
Vegetation Type	Dry-Fresh Oak-Red Maple Forest
Vegetation Type Code	FOD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	933

Notes		Location	Latitude:45.824892,Longitude:-80.612106,Altitude:205.0,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/08/2015 01:01:41 EDT
Dead			



Species	Tally	ID
Acer Rubrum	10.00	1716
Populus Grandidentata	3.00	1719

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		855
Location	Latitude:45.824865,Longitude:-80.612054,Altitude:203.3,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/08/2015 01:19:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	7.00	0.00	Fibric organic
Horizon 2	13.00	14.00	Sand with root fibers
Horizon 3	120.00	25.00	Coarse sand
Horizon 4		0.00	

% Surface Stone	7.00
Moisture Regime	4
Drainage	Well
Effective Texture	Sand

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M22	Field Crew	ROB AYESHA CORY	1119

Feature ID	ELC-S-M22(177)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0		
Start Date	6/8/2015 1:48:45 PM	Precipitation	0		
End Date	6/8/2015 2:19:01 PM	Cloud Cover	100.00		

Polygon Description 1119

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 1119

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Larix Laricina > Picea Mariana>>pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > Picea mariana
Shrub			Chamaedaphne calyculata > Kalmia angustifolia > Nemopanthus mucronatus > Ledum Greonlandicum
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp > Maianthemum trifoliata
Floating & Submerged		0 None	

Stand Composition 1119

	<10	10-24	25-50	>50
Size Class Analysis	R	A	O	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix Laricina
Species Dominance 25-50	Larix Laricina
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1119
Community Age	Mid-Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco	
Ecosite Code	SWC4	
Vegetation Type	Tamarak-Black Spruse Organic Coniferous Swamp Type	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		936
Notes		Location
		Latitude:45.824131,Longitude:-80.61432,Altitude:205.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:14:28 EDT
Dead		



Species	Tally	ID
Pinus Strobus	1.00	1722
Larix laricina	4.00	1725

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		858
Location	Latitude:45.824125,Longitude:-80.614318,Altitude:205.3,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:17:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	95.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Fibric
Horizon 2	95.00	0.00	Humic
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Gooey (chocolate pudding like)

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M22	Field Crew	AYESHA ROB CORY	1122

Feature ID	ELC-S-M22(336)	Congruent Features	M22(695)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/8/2015 2:29:27 PM	Precipitation	0		
End Date	6/8/2015 3:00:49 PM	Cloud Cover	100.00		

Polygon Description 1122

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Forest

Stand Species 1122

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer Rubrum > Populus Grandidentata > Betula Papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Acer Rubrum > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Acer Rubrum>Corylus cornuta
Groundcover	6 >0.2-0.5m	3 25 - 60%	Pteridium aquilinum > Aster Macrophyllus=Maianthemum Canadense >Aralia nudicaulis
Floating & Submerged			

Stand Composition 1122

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	R	O	O	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Acer Rubrum
Species Dominance 10-24	ACER rubrum
Species Dominance 25-50	Acer Rubrum
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1122
Community Age	Mid-Age	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type		
Vegetation Type Code	FOD5-2?.?	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		939
Notes		Location
		Latitude:45.824971,Longitude:-80.616055,Altitude:205.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:55:21 EDT
Dead	3.00	



Species	Tally	ID
Acer rubrum	4.00	1728
Populus grandidentata	4.00	1731

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		861
Location	Latitude:45.824965,Longitude:-80.616052,Altitude:205.6,Speed:0.14404444,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:55:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	14.00	Fibric
Horizon 2	120.00	25.00	Coarse sand
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	4
Drainage	Very good
Effective Texture	Coarse

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M22	Field Crew	AYESHA ROB TOM	1125

Feature ID	ELC-S-M22(178)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/8/2015 3:10:28 PM	Precipitation	0		
End Date	6/8/2015 3:10:31 PM	Cloud Cover	100.00		

Polygon Description 1125

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 1125

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Fraxinus Nigra >> Acer rubrum > Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Fraxinus Nigra >> Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Fraxinus Nigra>>Corylus cornuta
Groundcover	5 >0.5-1m	3 25 - 60%	Carex sp
Floating & Submerged			

Stand Composition 1125

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	A	O	R
Deadfall / Logs	O	O	O	N

Species Dominance <10	Fraxinus Nigra
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	Fraxinus Nigra
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1125

Community Age	
Ecosite	Ash Organic Deciduous Swamp Ecosite
Ecosite Code	SWD5
Vegetation Type	Black ash organic Deciduous Swamp
Vegetation Type Code	SWD5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	942

Notes		Location	Latitude:45.825281,Longitude:-80.616983,Altitude:200.3,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/08/2015 03:22:43 EDT
Dead			



Species	Tally	ID
Fraxinus Nigra	6.00	1734
Acer Rubrum	5.00	1737
Populus tremuloides	2.00	1740

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		864
Location	Latitude:45.825278,Longitude:-80.616951,Altitude:198.9,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/08/2015 03:26:11 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	10.00	Fibric
Horizon 2	60.00	25.00	Coarse sand
Horizon 3	120.00	10.00	Loamy sand
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	9
Drainage	Poor
Effective Texture	Grainy, with mainly coarse sand and fine gravel;

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M30	Field Crew	TOM SHORNEY, DAN MCPARLAND	1182

Feature ID	ELC-S-M30(689)	Congruent Features	M30(220), M30(289), M30(702), M30(766), M30(771)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/8/2015 10:42:49 AM	Precipitation	0		
End Date	6/8/2015 11:13:02 AM	Cloud Cover	100.00		

Polygon Description 1182

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1182

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis> vaccinium angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Cladina rangiferina > polytrichum juniperinum > maianthemum canadensis
Floating & Submerged			

Stand Composition 1182

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1179
Community Age	Mature	
Ecosite	Acidic treed rock barren ecosite	
Ecosite Code	RBT3	
Vegetation Type	Jack pine acidic treed rock barren type	
Vegetation Type Code	RBT3-2	
Inclusion		
Inclusion Code		
Complex	Shrub bog ecosite	
Complex Code	BOS1	

Tree Tally		972
Notes		
Dead	0.00	

Location

Latitude:45.839812,Longitude:-80.648129,Altitude:194.2,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:03:50 EDT



Species	Tally	ID
Pinus banksiana	1.00	1800

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		903
Location	Latitude:45.839821,Longitude:-80.648082,Altitude:195.8,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:06/08/2015 11:09:16 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Bedrock
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M30	Field Crew	TOM SHORNEY, DAN MCPARLAND	1185

Feature ID	ELC-S-M30(434)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/8/2015 11:21:37 AM	Precipitation	0		
End Date	6/10/2015 9:41:00 PM	Cloud Cover	80.00		

Polygon Description 1185

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Floating-LVD,Graminoid,Forb
Community	Fen

Stand Species 1185

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	3 >2-6m	1 0% - 10%	Alnus incana>
Groundcover	5 >0.5-1m	4 > 60%	Carex lacustrina >> potentilla palustris
Floating & Submerged		2 10 - 25%	Nuphar variegatum= nymphaea odorata

Stand Composition 1185

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1182
Community Age	Mid-Age	
Ecosite	Mineral Shallow Marsh Ecosite	
Ecosite Code	MAS2	
Vegetation Type	Broad-leaved Sedge Mineral Shallow Marsh	
Vegetation Type Code	MAS2-4	
Inclusion	Birch - conifer mineral mixed swamp type	
Inclusion Code	SWM3-1	
Complex		
Complex Code		

Tree Tally		975
Notes		Location
		Latitude:45.839568,Longitude:-80.64843,Altitude:189.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/08/2015 12:21:41 EDT
Dead		



Species	Tally	ID
Na	0.00	1803

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		906
Location	Latitude:45.839608,Longitude:-80.648468,Altitude:190.5,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:06/08/2015 12:17:58 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	3.00	0.00	Organic humic
Horizon 2	100.00	0.00	Sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Sand

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M31	Field Crew	TOM SHORNEY, DAN	1188

Feature ID	ELC-S-M31(514)	Congruent Features	M31(516)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/8/2015 1:41:38 PM	Precipitation	0		
End Date	6/8/2015 1:59:26 PM	Cloud Cover	100.00		

Polygon Description 1188

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Deciduous,Coniferous
Community	Barren

Stand Species 1188

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana>> pinus strobus
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana>> Betula papyifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniper communis>> vaccinium angustifolia
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina
Floating & Submerged			

Stand Composition 1188

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1185
Community Age	Mature	
Ecosite	Acidic treed rock barren ecosite	
Ecosite Code	RBT3	
Vegetation Type	Jack pine acidic treed rock barren type	
Vegetation Type Code	RBT3-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	978

Notes		Location	
		Latitude:45.836869,Longitude:-80.652646,Altitude:194.0,Speed:0.07716667,Accuracy:1.75,Provider:gps,Time:06/08/2015 01:58:59 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	3.00	1806

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		909
Location	Latitude:45.836868,Longitude:-80.652648,Altitude:194.2,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/08/2015 01:55:48 EDT	Notes	Rock barren
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Na
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M31	Field Crew	TOM SHORNEY, DAN	1191

Feature ID	ELC-S-M31(345)	Congruent Features	M31(431)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/8/2015 2:25:57 PM	Precipitation	0		
End Date	6/8/2015 2:50:53 PM	Cloud Cover	100.00		

Polygon Description 1191

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1191

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > larix laricina
Sub Canopy	3 >2-6m	3 25 - 60%	Picea mariana > larix laricina > pinus strobus
Shrub	4 >1-2m	4 > 60%	Gaylussacia baccata> ledum groenlandicum > kalmia angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum moss> three leaved solomonseal seal>> lady's slipper
Floating & Submerged			

Stand Composition 1191

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Picea marina > larix laricina> pinus strobus
Species Dominance 10-24	Picea mariana > larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1188

Community Age	Mature
Ecosite	Tamarack - black spruce organic coniferous swamp r
Ecosite Code	SWC4
Vegetation Type	Black spruce organic coniferous swamp type
Vegetation Type Code	SWC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	981

Notes		Location	Latitude:45.835983,Longitude:-80.653602,Altitude:189.3,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:06/08/2015 02:49:52 EDT
Dead			



Species	Tally	ID
Larix laricina	1.00	1809
Picea mariana	2.00	1812

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		912
Location	Latitude:45.835992,Longitude:-80.653563,Altitude:189.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:06/08/2015 02:28:01 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	45.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	55.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Organic fibric
Horizon 2	55.00		Organic humic
Horizon 3			
Horizon 4			

% Surface Stone	1.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic humic

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M31	Field Crew	TOM SHORNEY, DAN	1194

Feature ID	ELC-S-M31(346)	Congruent Features	M31(347), M31(703), M31(432)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/8/2015 3:26:42 PM	Precipitation	0		
End Date	6/8/2015 3:46:46 PM	Cloud Cover	100.00		

Polygon Description 1194

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Deciduous,Coniferous,Mixed
Community	Swamp

Stand Species 1194

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus strobus > Betula papyifera > Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > Acer rubrum
Shrub	4 >1-2m	4 > 60%	Mountain holly> viburnum cassinoides > gaylussacia baccata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum moss > maianthemum canadensis > cornus canadensis
Floating & Submerged			

Stand Composition 1194

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus strobus > Acer rubrum
Species Dominance 10-24	Pinus strobus > Betula papyrifera > populus trem
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1191

Community Age	Mature
Ecosite	Birch - poplar mineral mixed swamp ecosite
Ecosite Code	SWM3
Vegetation Type	Birch - conifer mineral mixed swamp type
Vegetation Type Code	SWM3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	984

Notes		Location	Latitude:45.83517,Longitude:-80.654479,Altitude:149.2,Speed:0.3241,Accuracy:6.0,Provider:gps,Time:06/08/2015 03:45:37 EDT
Dead			



Species	Tally	ID
Betula papyrifera	3.00	1815
Populous tremuloides	2.00	1818
Pinus strobus	2.00	1821

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		915
Location	Latitude:45.835195,Longitude:-80.654347,Altitude:177.1,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/08/2015 03:36:15 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	35.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Organic fibric
Horizon 2	80.00		Sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Fresh
Drainage	Well
Effective Texture	Fine sand

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M18	Field Crew	OLGA & CASEY	1275

Feature ID	ELC-S-M18(528)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	6/8/2015 10:25:14 AM	Precipitation	0		
End Date	6/8/2015 11:45:35 AM	Cloud Cover	100.00		

Polygon Description 1275

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1275

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Kalmia angustifolia = bracken fern> Viburnum cassinoides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Vaccinium angustifolium > Cornus canadensis
Floating & Submerged		4 > 60%	

Stand Composition 1275

	<10	10-24	25-50	>50
Size Class Analysis	R	A	R	N
Standing Snags	R	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1275
Community Age	Mid-Age	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M18	Field Crew	OLGA & CASEY	1278

Feature ID	ELC-S-M18(180)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	2		
Start Date	6/8/2015 11:22:36 AM	Precipitation	0		
End Date	6/8/2015 11:43:46 AM	Cloud Cover	90.00		

Polygon Description 1278

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb
Community	Barren

Stand Species 1278

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	3 25 - 60%	Bracken fern
Groundcover	7 <0.2m	4 > 60%	Vaccinium angustifolium > Gaultheria procumbens > Maianthemum canadense > Comptonia peregrina
Floating & Submerged		0 None	

Stand Composition 1278

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1278
Community Age	Young	
Ecosite	Open sand barren	
Ecosite Code	SBO1	
Vegetation Type	Dry bracken fern open forb sand barren	
Vegetation Type Code	SBO1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	981

Location	Latitude:45.828907,Longitude:-80.634381,Altitude:190.6,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:06/08/2015 11:37:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	83.00	Of
Horizon 2	5.00	5.00	Medium sand with organic bits
Horizon 3			
Horizon 4		0.00	

% Surface Stone	2.00
Moisture Regime	0
Drainage	Rapid
Effective Texture	Ms

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

Tree tally not completed because no tress present



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M18	Field Crew	OLGA & CASEY	1281

Feature ID	ELC-S-M18(528a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/8/2015 11:57:21 AM	Precipitation	0		
End Date	6/8/2015 12:16:50 PM	Cloud Cover	100.00		

Polygon Description 1281

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 1281

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Chamaedaphne calyculata
Groundcover		4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1281

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	R	N		
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1281
Community Age	Mature	
Ecosite	Coniferous Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen Type	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		984
Pit ID	1	

Location	Latitude:45.828968,Longitude:-80.635505,Altitude:191.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/08/2015 12:08:59 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles	0.00	
Slope Aspect (deg)	0.00	Gley	0.00	
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	0.00	Carbonates	0.00	
		Bedrock	0.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Of

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

No trees of proper size class for tally.



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M18	Field Crew	OLGA & CASEY	1284

Feature ID	ELC-S-M18(528b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/8/2015 12:38:37 PM	Precipitation	0		
End Date	6/8/2015 1:38:30 PM	Cloud Cover	100.00		

Polygon Description 1284

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1284

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Betula papyrifera > Populus tremuloides > Picea mariana > Acer rubrum
Sub Canopy	2 >6-25m	3 25 - 60%	Fraxinus Nigra > Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Ilex sp. > Corylus cornuta > Viburnum cassinoides
Groundcover	6 >0.2-0.5m		Carex sp. > Rubus pubescens > Maianthemum canadense > Trientalis borealis > Athyrium filix-femina
Floating & Submerged		0 None	

Stand Composition 1284

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	Populus trembuloides
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification 1284

Community Age	Mid-Age
Ecosite	Mineral deciduous swamp
Ecosite Code	SWD4
Vegetation Type	White birch- poplar mineral deciduous swamp
Vegetation Type Code	SWD4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1053

Notes

Location

Latitude:45.828401,Longitude:-80.638079,Altitude:186.3,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:06/08/2015 01:33:36 EDT



Dead 1.00

Species	Tally	ID
Betula papyrifera	2.00	1950
Populus tremuloides	3.00	1953
Fraxinus nigra	1.00	1956
Picea mariana	1.00	1959

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Soil Description

Pit ID	1		987
Location	Latitude:45.828407,Longitude:-80.638083,Altitude:187.1,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:06/08/2015 01:19:07 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	45.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	15.00	0.00	LfS
Horizon 3	20.00		VcS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Very rapid
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M18	Field Crew	OLGA & CASEY	1287

Feature ID	ELC-S-M18(528c)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/8/2015 1:47:44 PM	Precipitation	0		
End Date	6/8/2015 2:10:06 PM	Cloud Cover	100.00		

Polygon Description 1287

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Forest

Stand Species 1287

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Abies balsamea
Sub Canopy	2 >6-25m	3 25 - 60%	Abies balsamea
Shrub	6 >0.2-0.5m	2 10 - 25%	Petrium aquilinum
Groundcover	7 <0.2m	2 10 - 25%	Cornus canadensis
Floating & Submerged		0 None	

Stand Composition 1287

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea
Species Dominance 25-50	Picea mariana
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification		1287
Community Age	Mature	
Ecosite	Coniferous forest	
Ecosite Code	FOC	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		
Pit ID	1	990

Location	Latitude:45.828714,Longitude:-80.637796,Altitude:180.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/08/2015 01:58:10 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	11.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	25.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Fibric organic
Horizon 2	5.00		mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Moderately well
Effective Texture	mS

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Additional Notes

FOC3 is the Closest ELC code available. Balsam fir dominated forest. No presence of hemlock.



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M17	Field Crew	OLGA & CASEY	1290

Feature ID	ELC-S-M17(593)	Congruent Features	M17(691), M17(692),M19(693)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/8/2015 3:11:20 PM	Precipitation	0		
End Date	6/8/2015 4:51:29 PM	Cloud Cover	100.00		

Polygon Description 1290

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1290

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus
Shrub	6 >0.2-0.5m	3 25 - 60%	Vaccinium myrtilloides > Juniperus communis > Comptonia peregrina = Pteridium aquilinum
Groundcover	7 <0.2m	3 25 - 60%	Lichen sp. > Vaccinium angustifolium >Trientalis borealis> Maianthemum canadense = grass sp.
Floating & Submerged		0 None	

Stand Composition 1290

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Stand Classification	1290
Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Blueberry Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-1
Inclusion	
Inclusion Code	
Complex	Leatherleaf-forb shrub fen
Complex Code	FES1-4

Additional Notes



Execution Time 9/15/2015 3:09:07 PM

Filter Start Date 6/1/2015

Filter End Date 6/8/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1050

Feature ID	ELC-S-M7(337)	Congruent Features	M7(338)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/9/2015 9:46:10 AM	Precipitation	0		
End Date	6/9/2015 10:17:35 AM	Cloud Cover	10.00		

Polygon Description 1050

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Swamp

Stand Species 1050

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acerrub > betupap > fraxnig
Sub Canopy	2 >6-25m	3 25 - 60%	Acerrub > fraxnig > betupap
Shrub	4 >1-2m	3 25 - 60%	Corycor > nemomac > viburlen
Groundcover	7 <0.2m	4 > 60%	Maiacan > corncan > calmcan
Floating & Submerged		0 None	

Stand Composition 1050

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	R	R	R	N
Deadfall / Logs	A	A	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1050
Community Age	Mature	
Ecosite	Maple mineral deciduous swamp	
Ecosite Code	SWD3	
Vegetation Type	Red maple mineral deciduous swamp	
Vegetation Type Code	SWD3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		891
Notes		Location
		Latitude:45.84589,Longitude:-80.600909,Altitude:196.8,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:06/09/2015 09:58:03 EDT
Dead	2.00	



Species	Tally	ID
Acerrub	6.00	1599
Betupap	2.00	1602

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		801
Location	Latitude:45.845886,Longitude:-80.600932,Altitude:205.2,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/09/2015 10:11:59 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Oh
Horizon 2	30.00		fS
Horizon 3	120.00	0.00	LfS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1053

Feature ID	ELC-S-M7(161)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/9/2015 10:26:01 AM	Precipitation	0		
End Date	6/9/2015 10:54:10 AM	Cloud Cover	15.00		

Polygon Description 1053

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Mixed
Community	Forest

Stand Species 1053

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acerrub >> betupap > pinustr
Sub Canopy	2 >6-25m	4 > 60%	Acerrub >> betupap > pinustr
Shrub	4 >1-2m	4 > 60%	Pteraqu >> corycor > vibulen
Groundcover	7 <0.2m	4 > 60%	Maiacan > astemac > lycoden > triebor
Floating & Submerged		0 None	

Stand Composition 1053

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	O	R
Deadfall / Logs	R	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1053

Community Age	Mature
Ecosite	Dry - fresh upland deciduous forest
Ecosite Code	FOD4
Vegetation Type	Dry - fresh red maple deciduous forest
Vegetation Type Code	FODM4-7
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	894

Notes		Location	
		Latitude:45.845269,Longitude:-80.600931,Altitude:205.8,Speed:0.16976666,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:38:13 EDT	
Dead	4.00		

Species	Tally	ID
Acerrub	5.00	1605
Betupap	3.00	1608

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		804
Location	Latitude:45.845248,Longitude:-80.601013,Altitude:204.9,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:28:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	90.00	Gley	
Slope Percent	9.00	Water Table	52.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	7.00	0.00	Oh
Horizon 2	42.00	5.00	fSL
Horizon 3	120.00		mS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	3
Effective Texture	fSL

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1056

Feature ID	ELC-S-M7(29)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/9/2015 11:30:10 AM	Precipitation	0		
End Date	6/9/2015 11:48:20 AM	Cloud Cover	10.00		

Polygon Description 1056

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Barren

Stand Species 1056

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Vaccang > junicom > dierlon
Groundcover	7 <0.2m	4 > 60%	Cladina sp > descfle > Dantcom > astemac
Floating & Submerged		0 None	

Stand Composition 1056

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1056
Community Age	Mid-Age	
Ecosite	Acidic shrub rock barren	
Ecosite Code	RBS3	
Vegetation Type	Blueberry acidic shrub rock barren	
Vegetation Type Code	RBS3-1	
Inclusion		
Inclusion Code		
Complex	Dry - fresh upland deciduous forest	
Complex Code	FODM4	

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1059

Feature ID	ELC-S-M7(340)	Congruent Features	M7(339)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/9/2015 12:23:48 PM	Precipitation	0		
End Date	6/9/2015 12:43:02 PM	Cloud Cover	10.00		

Polygon Description 1059

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 1059

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	2 10 - 25%	Ulnuinc > spiralb > spirang
Groundcover	6 >0.2-0.5m	4 > 60%	Carestr > careaqu > potepol
Floating & Submerged		0 None	

Stand Composition 1059

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1059
Community Age		
Ecosite	Organic shallow marsh	
Ecosite Code	MAS3	
Vegetation Type	Narrow - leaved sedge organic shallow marsh	
Vegetation Type Code	MAS3-3	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		807
Pit ID	1	

Location	Latitude:45.845632,Longitude:-80.60568,Altitude:191.4,Speed:0.13375555,Accuracy:1.8,Provider:gps,Time:06/09/2015 12:25:01 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	233.00	Gley	70.00	
Slope Percent	13.00	Water Table		
Slope Length (m)	10.00	Carbonates		
		Bedrock		

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	30.00	0.00	Of
Horizon 2	75.00		Oh
Horizon 3	120.00		C
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1062

Feature ID	ELC-S-M7(162)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/9/2015 12:51:54 PM	Precipitation	0		
End Date	6/9/2015 1:08:47 PM	Cloud Cover	20.00		

Polygon Description 1062

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1062

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Ulnuinc > spiralb
Groundcover	6 >0.2-0.5m	4 > 60%	Carelac > calmcan > sphagnum
Floating & Submerged		0 None	

Stand Composition 1062

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1062
Community Age	Mid-Age	
Ecosite	Alder Mineral Deciduous Thicket Swamp Ecosite	
Ecosite Code	SWT2	
Vegetation Type	Speckled Alder Mineral Deciduous Thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	810

Location	Latitude:45.845059,Longitude:-80.604762,Altitude:189.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/09/2015 12:53:07 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	232.00	Gley	
Slope Percent	4.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2	30.00		LvfS
Horizon 3	120.00		VfSC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	7
Effective Texture	vfSC

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M7	Field Crew	KASEY & NATALIYA	1065

Feature ID	ELC-S-M7(550)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/9/2015 2:16:31 PM	Precipitation	0		
End Date	6/9/2015 2:44:02 PM	Cloud Cover	20.00		

Polygon Description 1065

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Bryophyte,Mixed
Community	Forest

Stand Species 1065

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Pinustr > balsabi > acerrub
Sub Canopy	2 >6-25m	4 > 60%	Balsabi > pinustr > acerrub
Shrub	4 >1-2m	3 25 - 60%	Vaccmyr > vaccang > pteraqu > vibulen
Groundcover	7 <0.2m	4 > 60%	Maiacan > gaulpro > corncan
Floating & Submerged		0 None	

Stand Composition 1065

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	A	A	R	R

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1065

Community Age	Mature
Ecosite	Dry - fresh pine coniferous forest
Ecosite Code	FOC1
Vegetation Type	Dry - fresh white pine - red pine coniferous fores
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	897

Notes		Location	Latitude:45.847985,Longitude:-80.599917,Altitude:200.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/09/2015 02:28:16 EDT
Dead	2.00		



Species	Tally	ID
Pinustr	6.00	1611
Acerrub	3.00	1614

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		813
Location	Latitude:45.847934,Longitude:-80.599964,Altitude:198.9,Speed:0.2520778,Accuracy:3.3,Provider:gps,Time:06/09/2015 02:18:48 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	4.00	Water Table	
Slope Length (m)	15.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Om
Horizon 2	40.00	1.00	LfS
Horizon 3	0.00		
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	2
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M5	Field Crew	ADAM, JASON	1083

Feature ID	ELC-S-M5(14)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	0		
Start Date	6/9/2015 8:12:25 AM	Precipitation	0		
End Date	6/9/2015 8:44:21 AM	Cloud Cover	40.00		

Polygon Description 1083

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous,Coniferous
Community	Forest

Stand Species 1083

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea > Picea glauca
Sub Canopy	3 >2-6m	2 10 - 25%	Abies balsamea
Shrub	5 >0.5-1m	1 0% - 10%	Pteridium aquilinum = Abies balsamea
Groundcover	7 <0.2m	3 25 - 60%	Cornus canadensis = Maianthemum canadense > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1083

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	R	N	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea > Picea glauca
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1083

Community Age	Mid-Age
Ecosite	Fresh - Moist White Cedar Coniferous Forest
Ecosite Code	FOC4
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	909

Notes		Location	
		Latitude:45.84709,Longitude:-80.584401,Altitude:200.5,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:06/09/2015 08:32:28 EDT	
Dead			

Species	Tally	ID
Pinus strobus	2.00	1635
Abies balsamea	7.00	1638
Picea glauca	1.00	1641
Betula papyrifera	1.00	1644

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		828
Location	Latitude:45.847116,Longitude:-80.584373,Altitude:200.6,Speed:0.11317778,Accuracy:2.7,Provider:gps,Time:06/09/2015 08:27:38 EDT	Notes	Aspect 90Did not hit bedrock
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	25.00
Slope Aspect (deg)	89.00	Gley	
Slope Percent	7.00	Water Table	40.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	SiS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	SiS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M5	Field Crew	ADAM, JASON	1086

Feature ID	ELC-S-M5(158)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/9/2015 9:06:13 AM	Precipitation	0		
End Date	6/9/2015 9:31:22 AM	Cloud Cover	10.00		

Polygon Description 1086

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Swamp

Stand Species 1086

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Alnus incana
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp. > Carex sp. > Potentilla palustris = Calla palustris
Floating & Submerged		0 None	

Stand Composition 1086

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1086
Community Age	Mid-Age
Ecosite	Organic thicket swamp
Ecosite Code	SWT3
Vegetation Type	Alder organic thicket swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 912

Notes

Location

Latitude:45.846496,Longitude:-80.586375,Altitude:202.3,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/09/2015 09:29:31 EDT



Dead

Species	Tally	ID
Larix laricina	1.00	1647

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		831
Location	Latitude:45.846444,Longitude:-80.5864,Altitude:200.9,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/09/2015 09:18:53 EDT	Notes	Aspect 120Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	120.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M6	Field Crew	ADAM, JASON	1089

Feature ID	ELC-S-M6(457)	Congruent Features	M6(765),M6(551)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/9/2015 9:55:26 AM	Precipitation	0		
End Date	6/9/2015 10:33:18 AM	Cloud Cover	10.00		

Polygon Description 1089

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1089

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea
Sub Canopy	3 >2-6m	1 0% - 10%	Abies balsamea > Acer rubrum
Shrub	4 >1-2m	1 0% - 10%	Corylus cornuta > Abies balsamea
Groundcover	7 <0.2m	2 10 - 25%	Cornus canadensis > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1089

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea > Acer rubrum
Species Dominance 25-50	Pinus strobus = Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1089

Community Age	Mature
Ecosite	Dry-Fresh Upland Deciduous Forest
Ecosite Code	FOD4
Vegetation Type	Fresh-moist white cedar-balsam fir coniferous fore
Vegetation Type Code	FOC4-3
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	915

Notes		Location	
		Latitude:45.845655,Longitude:-80.590127,Altitude:202.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/09/2015 10:20:50 EDT	
Dead	1.00		

Species	Tally	ID
Abies balsamea	13.00	1650
Acer rubrum	7.00	1653
Betula alleghensis	1.00	1656
Pinus strobus	2.00	1659
Betula papyrifera	2.00	1662

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		834
Location	Latitude:45.845629,Longitude:-80.590062,Altitude:203.3,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:06/09/2015 10:10:18 EDT	Notes	Aspect 20Did not hit bedrock
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	25.00
Slope Aspect (deg)	22.00	Gley	
Slope Percent	4.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	SL
Horizon 2		0.00	
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	4
Drainage	4
Effective Texture	SL

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M6	Field Crew	ADAM, JASON	1092

Feature ID	ELC-S-M6(764)	Congruent Features	M6(159)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/9/2015 10:43:23 AM	Precipitation	0		
End Date	6/9/2015 11:02:06 AM	Cloud Cover	50.00		

Polygon Description 1092

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 1092

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Alnus incana
Sub Canopy	4 >1-2m	2 10 - 25%	Alnus incana
Shrub	5 >0.5-1m	1 0% - 10%	Alnus incana
Groundcover	7 <0.2m	2 10 - 25%	Onoclea sensibilis = Clintonia borealis = Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1092

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1092
Community Age	Mid-Age	
Ecosite	Mineral Thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	837

Location	Latitude:45.844879,Longitude:-80.590708,Altitude:209.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:56:12 EDT	Notes	Aspect 300Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	25.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	20.00	5.00	mS
Horizon 3	100.00		SifS
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	SifS

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M6	Field Crew	ADAM, JASON	1095

Feature ID	ELC-S-M6(160)	Congruent Features	M6(456)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/9/2015 11:56:49 AM	Precipitation	0		
End Date	6/9/2015 12:38:21 PM	Cloud Cover	20.00		

Polygon Description 1095

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1095

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum = Abies balsamea
Sub Canopy	3 >2-6m	1 0% - 10%	Acer rubrum > Abies balsamea
Shrub	5 >0.5-1m	2 10 - 25%	Corylus cornuta > Acer rubrum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1095

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abies balsamea > Acer rubrum
Species Dominance 10-24	Acer rubrum > Abies balsamea
Species Dominance 25-50	Acer rubrum = Abies balsamea = Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1095
Community Age	Mid-Age	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type	Dry-fresh white birch mixed forest	
Vegetation Type Code	FOM5-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 918

Notes		Location	
		Latitude:45.847123,Longitude:-80.59202,Altitude:203.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/09/2015 12:15:48 EDT	
Dead			

Species	Tally	ID
Betula papyrifera	2.00	1665
Thuja occidentalis	1.00	1668
Pinus strobus	2.00	1671
Abies balsamea	2.00	1674
Populus tremuloides	1.00	1677
Acer rubrum	5.00	1680
Betula alleghensis	1.00	1683

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		840
Location	Latitude:45.847094,Longitude:-80.592023,Altitude:203.7,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:06/09/2015 12:23:21 EDT	Notes	Aspect 40Did not hit bedrock
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	30.00
Slope Aspect (deg)	42.00	Gley	
Slope Percent	3.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	fS
Horizon 2	120.00		SifS
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	SifS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M8	Field Crew	KASEY & NATALIYA	1098

Feature ID	ELC-S-M8(554)	Congruent Features	M8(40)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/10/2015 10:50:26 AM	Precipitation	0		
End Date	6/10/2015 11:21:48 AM	Cloud Cover	50.00		

Polygon Description 1098

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1098

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acerrub > popugra > poputre > betupap
Sub Canopy	2 >6-25m	4 > 60%	Acerrub > popugra > poputre > betupap
Shrub	5 >0.5-1m	4 > 60%	Vibulen > Pteraqu > corycor > vaccang
Groundcover	7 <0.2m	4 > 60%	Maiacan > corncan > triebor > copttri
Floating & Submerged		0 None	

Stand Composition 1098

	<10	10-24	25-50	>50
Size Class Analysis	A	A	A	R
Standing Snags	O	O	R	N
Deadfall / Logs	A	A	R	R

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1098
Community Age	Mature	
Ecosite	Dry - fresh upland deciduous forest	
Ecosite Code	FOD4	
Vegetation Type	Dry - fresh red maple upland deciduous forest	
Vegetation Type Code	FODM4-7	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		921
Notes		
Location	Latitude:45.847476,Longitude:-80.610279,Altitude:185.8,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:06/10/2015 11:13:08 EDT	
Dead	2.00	



Species	Tally	ID
Acerrub	6.00	1686
Poputre	4.00	1689
Betupap	2.00	1692

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		843
Location	Latitude:45.847488,Longitude:-80.610297,Altitude:171.8,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/10/2015 11:04:11 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	60.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	50.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Om
Horizon 2	120.00	31.00	mS
Horizon 3	0.00		
Horizon 4			

% Surface Stone	31.00
Moisture Regime	3
Drainage	1
Effective Texture	mS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M8	Field Crew	KASEY & NATALIYA	1101

Feature ID	ELC-S-M8(555)	Congruent Features	M8(556)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/10/2015 11:39:34 AM	Precipitation	0		
End Date	6/10/2015 11:57:29 AM	Cloud Cover	100.00		

Polygon Description 1101

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte
Community	Swamp

Stand Species 1101

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	2 >6-25m	3 25 - 60%	Fraxnig > acerrub
Shrub	4 >1-2m	4 > 60%	Ulnuinc > nemomac > acerrub
Groundcover	7 <0.2m	4 > 60%	Onocsen > maiacan > rubupub > Carevag
Floating & Submerged		0 None	

Stand Composition 1101

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	N	N	N	N
Deadfall / Logs	A	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1101

Community Age	Mid-Age
Ecosite	Alder mineral deciduous thicket swamp
Ecosite Code	SWT2
Vegetation Type	Speckled alder mineral deciduous thicket swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	924

Notes		Location	Latitude:45.848448,Longitude:-80.609219,Altitude:186.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:06/10/2015 11:47:43 EDT
Dead			



Species	Tally	ID
Fraxnig	2.00	1695
Acerrub	1.00	1698

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		846
Location	Latitude:45.848402,Longitude:-80.609317,Altitude:182.8,Speed:0.030866666,Accuracy:2.7,Provider:gps,Time:06/10/2015 11:40:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Oh
Horizon 2	65.00	5.00	LmS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	1
Effective Texture	LmS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M8	Field Crew	KASEY & NATALIYA	1104

Feature ID	ELC-S-M8(18)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	3		
Start Date	6/10/2015 12:21:29 PM	Precipitation	0		
End Date	6/10/2015 12:29:56 PM	Cloud Cover	100.00		

Polygon Description 1104

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Shrub
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte
Community	Barren

Stand Species 1104

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	3 25 - 60%	Vaccang > junicom > dierlon
Groundcover	7 <0.2m	4 > 60%	Cladina sp > descflu > Dantcom > maiacan
Floating & Submerged		0 None	

Stand Composition 1104

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1104
Community Age	Mid-Age	
Ecosite	Acidic Shrub Rock Barren	
Ecosite Code	RBS3	
Vegetation Type	Blueberry Acidic Shrub Rock Barren	
Vegetation Type Code	RBS3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M8	Field Crew	KASEY & NATALIYA	1107

Feature ID	ELC-S-M8(234)	Congruent Features	M8(552), M8(553)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/10/2015 12:43:18 PM	Precipitation	0		
End Date	6/10/2015 1:05:49 PM	Cloud Cover	100.00		

Polygon Description 1107

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Bryophyte,Coniferous
Community	Forest

Stand Species 1107

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Pinustr > abiebal
Sub Canopy	2 >6-25m	4 > 60%	Abiebal > acerrub
Shrub	5 >0.5-1m	3 25 - 60%	Pteraqu > vibulen > acerrub > poputre
Groundcover	7 <0.2m	4 > 60%	Corncan > copttri > climbor > triebor
Floating & Submerged		0 None	

Stand Composition 1107

	<10	10-24	25-50	>50
Size Class Analysis	A	A	A	R
Standing Snags	O	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1107

Community Age	Mature
Ecosite	Dry - fresh pine coniferous forest
Ecosite Code	FOC1
Vegetation Type	Dry - fresh white pine - red pine coniferous fores
Vegetation Type Code	FOC1-2
Inclusion	Black ash - conifer mineral mixed swamp
Inclusion Code	SWMM4-2
Complex	
Complex Code	

Tree Tally	927

Notes		Location	
		Latitude:45.849666,Longitude:-80.605928,Altitude:196.2,Speed:0.2520778,Accuracy:2.4,Provider:gps,Time:06/10/2015 01:00:01 EDT	
Dead	2.00		

Species	Tally	ID
Abiebal	7.00	1701
Acerrub	5.00	1704
Poputre	1.00	1707
Betuali	1.00	1710

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		849
Location	Latitude:45.849692,Longitude:-80.605714,Altitude:187.9,Speed:0.020577777,Accuracy:2.7,Provider:gps,Time:06/10/2015 12:48:38 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	40.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	40.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Om
Horizon 2	90.00		LfS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	1
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M8	Field Crew	KASEY & NATALIYA	1110

Feature ID	ELC-S-M8(342)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/10/2015 1:37:43 PM	Precipitation	0		
End Date	6/10/2015 1:52:14 PM	Cloud Cover	100.00		

Polygon Description 1110

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 1110

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Larilar
Sub Canopy	1 >25m		Larilar > pinustr
Shrub	5 >0.5-1m	3 25 - 60%	Vaccang > kalmpol > vibulen > spirang
Groundcover	7 <0.2m	4 > 60%	Sphagnum > carelac > Carecan > calacan
Floating & Submerged		0 None	

Stand Composition 1110

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1110
Community Age	Mid-Age	
Ecosite	Treed Bog	
Ecosite Code	BOT1	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		930
Notes		Location
		Latitude:45.849301,Longitude:-80.601238,Altitude:198.2,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/10/2015 01:43:34 EDT
Dead	2.00	



Species	Tally	ID
Larilar	2.00	1713

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		852
Location	Latitude:45.849308,Longitude:-80.601244,Altitude:197.6,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:06/10/2015 01:40:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	30.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Of
Horizon 2	15.00		SiS
Horizon 3	120.00		LfS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	2
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M43	Field Crew	AYESHA ROB MATT	1128

Feature ID	ELC-S-M43(465a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3	Its a lovely day	
Start Date	6/9/2015 10:31:01 AM	Precipitation	0		
End Date	6/9/2015 10:48:12 AM	Cloud Cover	25.00		

Polygon Description 1128

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Bog

Stand Species 1128

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	1 0% - 10%	Larix Laricina > Pinus banksiana
Shrub	4 >1-2m	2 10 - 25%	Larix laricina > Alnus incana > chamaedaphne calyculata > acer rubrum > Picea Mariana
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum sp>>Carex lacustris >> Carex sp
Floating & Submerged			

Stand Composition 1128

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1128
Community Age		
Ecosite	Open Bog Ecosite	
Ecosite Code	BOO1	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	867

Location	Latitude:45.816335,Longitude:-80.639133,Altitude:201.6,Speed:0.14404444,Accuracy:1.8,Provider:gps,Time:06/09/2015 10:47:15 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	30.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	30.00	0.00	Fibric organic
Horizon 2	79.00		Humic organic
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M43	Field Crew	AYESHA ROB MATT	1131

Feature ID	ELC-S-M43(182)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/9/2015 11:00:22 AM	Precipitation	0		
End Date	6/9/2015 11:20:25 AM	Cloud Cover	25.00		

Polygon Description 1131

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Bog

Stand Species 1131

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana > Quercus mariana
Shrub	4 >1-2m	4 > 60%	Chamaedaphne calyculata >> Alnus incana > Spiraea alba
Groundcover	5 >0.5-1m		Sphagnum sp>Scirpus cyperinus > Lysimachia thyrsiflora > Potentilla palustris > oxycoccos macrocarpon
Floating & Submerged			

Stand Composition 1131

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1131
Community Age		
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	870

Location	Latitude:45.818514,Longitude:-80.641422,Altitude:193.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:06/09/2015 11:15:43 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	2.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	70.00	Carbonates	
		Bedrock	59.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	35.00	0.00	Fibric
Horizon 2	59.00	0.00	Silty sand
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	7
Drainage	Poor
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M43	Field Crew	AYESHA ROB MATT	1134

Feature ID	ELC-S-M43(323)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	6		
Start Date	6/9/2015 11:51:24 AM	Precipitation	0		
End Date	6/9/2015 12:17:28 PM	Cloud Cover	200.00		

Polygon Description 1134

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Deciduous
Community	Forest

Stand Species 1134

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Betula Papyrifera = Acer rubrum >> Populus tremuloides = Pinus Banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum > Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Acer rubrum > Populus Tremuloides = Betula papyrifera
Groundcover	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum > Aralia nudicaulis > Cornus Canadensis > Gaultheria procumbens
Floating & Submerged			

Stand Composition 1134

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	R	O	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Acer rubrum
Species Dominance 25-50	Acer rubrum>Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1134

Community Age	
Ecosite	Dry-Fresh Poplar-White Birch Deciduous Forest Ecos
Ecosite Code	FOD3
Vegetation Type	Dry-Fresh White Birch Deciduous Forest Type
Vegetation Type Code	FOD3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	945

Notes		Location	
		Latitude:45.818506,Longitude:-80.635338,Altitude:196.4,Speed:0.020577777,Accuracy:1.25,Provider:gps,Time:06/09/2015 12:24:07 EDT	
Dead	1.00		

Species	Tally	ID
Betula papyrifera	4.00	1743
Acer rubrum	2.00	1746

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		873
Location	Latitude:45.818501,Longitude:-80.635346,Altitude:196.2,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/09/2015 12:25:49 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	60.00
Slope Aspect (deg)	0.00	Gley	85.00
Slope Percent	1.00	Water Table	78.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	20.00	Sandy loam
Horizon 2	40.00	25.00	Sandy loam
Horizon 3	55.00	26.00	Sandy loam
Horizon 4	100.00	25.00	Sandy loam

% Surface Stone	27.00
Moisture Regime	3
Drainage	3
Effective Texture	Coarse sandy loam

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M43	Field Crew	AYESHA ROB MATT	1137

Feature ID	ELC-S-M43(34)	Congruent Features	M43(33)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/9/2015 1:06:18 PM	Precipitation	0		
End Date	6/9/2015 1:15:20 PM	Cloud Cover	25.00		

Polygon Description 1137

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 1137

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >> Picea Mariana > Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus Banksiana > Larix Laricina > Picea Mariana
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Gaylussacia baccata >> Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp >>Carex sp>maianthemum trifoliata>Arifolium vaginatum
Floating & Submerged			

Stand Composition 1137

	<10	10-24	25-50	>50
Size Class Analysis	R	R	O	N
Standing Snags	N	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1137
Community Age	Mid-Age	
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco	
Ecosite Code	SWC4	
Vegetation Type	Tamarak-Black Spruse Organic Coniferous Swamp Type	
Vegetation Type Code	SWC4-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally		948
Notes		
Dead		

Location

Latitude:45.814565,Longitude:-80.634461,Altitude:199.5,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/09/2015 01:19:39 EDT



Species	Tally	ID
Pinus banksiana	5.00	1749

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		876
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	50.00	Carbonates	
		Bedrock	115.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Fibric organic
Horizon 2	75.00	0.00	Strong cast organic.?
Horizon 3	115.00	0.00	Silty clay
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	8
Drainage	Poor
Effective Texture	Silty clay

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M43	Field Crew	AYESHA ROB MATT	1140

Feature ID	ELC-S-M43(465)	Congruent Features	M43(466), M43(726), M43(232)		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	1		
Start Date	6/9/2015 1:50:33 PM	Precipitation	0		
End Date	6/9/2015 1:50:36 PM	Cloud Cover	1.00		

Polygon Description 1140

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Forest

Stand Species 1140

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >>Picea Mariana
Sub Canopy	3 >2-6m	2 10 - 25%	Picea banksiana >> Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Juniperus communis >> Pteridium Aquilinum > Gaylussacia baccata > Vaccinium angustifolium
Groundcover	7 <0.2m	1 0% - 10%	Cladina rangiferina > Gaultheria procumbens > Maianthemum canadense
Floating & Submerged			

Stand Composition 1140

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	N
Standing Snags	R	O	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1140
Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	BOO1-1, BOT2-1
Complex	
Complex Code	RBT3-2

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M42	Field Crew	AYESHA ROB MATT	1143

Feature ID	ELC-S-M42(415)	Congruent Features	M42(414)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/9/2015 2:44:17 PM	Precipitation	0		
End Date	6/9/2015 2:44:19 PM	Cloud Cover	100.00		

Polygon Description 1143

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 1143

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina > Pinus banksiana > Picea mariana
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina > pinus banksiana > Picea mariana
Shrub	4 >1-2m	2 10 - 25%	Chamaedaphne calyculata > Kalmia Angustifolia > larix laricina = Ledum groenlandicum
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp>>Maianthemum trifoliata > carex spp
Floating & Submerged			

Stand Composition 1143

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1143
Community Age		
Ecosite	shrub Bog Ecosite	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub Bog Type	
Vegetation Type Code	BOS1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	879

Location	Latitude:45.812789,Longitude:-80.641727,Altitude:196.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/09/2015 02:48:35 EDT		Notes	
			Depth to: (cm)	
Slope Position	5 Depression		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	65.00		Carbonates	
			Bedrock	85.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	40.00	0.00	Fibric organic
Horizon 2	85.00	0.00	Humic Organic
Horizon 3		0.00	
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	8
Drainage	1
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M42	Field Crew	AYESHA ROB MATT	1146

Feature ID	ELC-S-M42(725)	Congruent Features	M42(246)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/9/2015 2:58:45 PM	Precipitation	0		
End Date	6/9/2015 2:58:47 PM	Cloud Cover	0.00		

Polygon Description 1146

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1146

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana
Shrub	4 >1-2m	1 0% - 10%	Juniperus communis >> Gaylussacia baccata > Alnus incana = Vaccinium angustifolium
Groundcover		1 0% - 10%	Cladina rangiferina > Deschampsia Flexuosa
Floating & Submerged		0 None	

Stand Composition 1146

	<10	10-24	25-50	>50
Size Class Analysis	R	O	O	N
Standing Snags	R	O	R	N
Deadfall / Logs	R	O	R	

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1146
Community Age	Mid-Age
Ecosite	
Ecosite Code	
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	RBT3-2

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M42	Field Crew	AYESHA ROB MATT	1149

Feature ID	ELC-S-M42(9)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	6/9/2015 3:46:56 PM	Precipitation	0		
End Date	6/9/2015 3:46:59 PM	Cloud Cover	100.00		

Polygon Description 1149

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Mixed
Community	Forest

Stand Species 1149

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera > Acer rubrum > Picea glauca = Tsuga canadensis
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Picea glauca > Populus tremuloides
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta > Acer rubrum > Viburnum cassinoides = Lonicera canadensis
Groundcover	7 <0.2m	3 25 - 60%	Aralia nudicaulis > Trientalis borealis > Aster macrophyllus > Cornus canadensis
Floating & Submerged			

Stand Composition 1149

	<10	10-24	25-50	>50
Size Class Analysis	R	A	A	R
Standing Snags	N	O	O	N
Deadfall / Logs	A	O	O	R

Species Dominance <10	
Species Dominance 10-24	Acer rubrum
Species Dominance 25-50	Betula papyrifera
Species Dominance >50	Populus tremuloides

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1149

Community Age	
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh White Birch Mixed Forest Type
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	951

Notes

Dead 0.00

Location

Latitude:45.811464,Longitude:-80.643256,Altitude:197.7,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:06/09/2015 03:38:38 EDT



Species	Tally	ID
Betula papyrifera	4.00	1752
Acer rubrum	2.00	1755
Populus grandidentata	1.00	1758
Picea?	1.00	1761

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		882
Location	Latitude:45.811457,Longitude:-80.64325,Altitude:196.8,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:06/09/2015 03:42:55 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	90.00
Slope Aspect (deg)	0.00	Gley	90.00
Slope Percent	0.00	Water Table	50.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	Fibric
Horizon 2	60.00	0.00	Coarse Sand
Horizon 3	90.00	0.00	Silty clay
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	3
Drainage	Well
Effective Texture	Coarse sand

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M37	Field Crew	AYESHA ROB MATT	1152

Feature ID	ELC-S-M37(533)	Congruent Features	M37(715), M37(716), M37(535), M37(733), M37(277)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	5		
Start Date	6/10/2015 10:58:46 AM	Precipitation	1		
End Date	6/10/2015 10:58:48 AM	Cloud Cover	100.00		

Polygon Description 1152

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1152

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >>Picea Mariana
Sub Canopy	3 >2-6m	1 0% - 10%	
Shrub	4 >1-2m	2 10 - 25%	Juniperus communis >> picea mariana > Vaccinium angustifolium > Gaylussacia baccata
Groundcover	7 <0.2m	3 25 - 60%	Cladina rangiferina >>Deschampsia flexuosa > Maianthemum canadense > Aralia hispida
Floating & Submerged		0 None	

Stand Composition 1152

	<10	10-24	25-50	>50
Size Class Analysis	R	R	R	N
Standing Snags	N	R	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1152
Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	BOT2-1

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M38	Field Crew	MATT AYESHA ROB	1155

Feature ID	ELC-S-M38(104)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/10/2015 12:09:45 PM	Precipitation	1		
End Date	6/10/2015 12:10:14 PM	Cloud Cover	100.00		

Polygon Description 1155

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Mixed
Community	Forest

Stand Species 1155

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Betula papyrifera > Picea Mariana = Populus Grandidentata
Sub Canopy	3 >2-6m	2 10 - 25%	Picea Mariana > Pinus banksiana > Larix laricina > Pinus Strobus
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus Communis > Vaccinium Angustifolium > Acer rubrum
Groundcover	6 >0.2-0.5m	3 25 - 60%	Pteridium Aquilinum >> Gaultheria procumbens > Aralia nudicaulis > Maianthemum Canadense
Floating & Submerged			

Stand Composition 1155

	<10	10-24	25-50	>50
Size Class Analysis	N	A	A	R
Standing Snags	N	R	N	N
Deadfall / Logs	R	O	O	R

Species Dominance <10	
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	Populus Grandidentata

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1155

Community Age	Mid-Age
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh White Birch Mixed Forest
Vegetation Type Code	FOM5-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 954

Notes

Dead

Location

Latitude:45.822562,Longitude:-80.668946,Altitude:184.4,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/10/2015 12:34:23 EDT



Species	Tally	ID
Pinus banksiana	2.00	1764
Picea Mariana	1.00	1767
Pinus Resinosa	1.00	1770

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		885
Location	Latitude:45.822556,Longitude:-80.668948,Altitude:185.0,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/10/2015 12:42:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	15.00
Slope Aspect (deg)	0.00	Gley	30.00
Slope Percent	0.00	Water Table	70.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	9.00	0.00	Fibric organic
Horizon 2	13.00	0.00	Sandy loam
Horizon 3	47.00	16.00	Sandy loam
Horizon 4	120.00	15.00	Sand

% Surface Stone	10.00
Moisture Regime	Fresh
Drainage	Well
Effective Texture	Coarse sand

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M38	Field Crew	AYESHA ROB MATT	1158

Feature ID	ELC-S-M38(150)	Congruent Features	M38(190)		
Project Number	60341251	Air Temp. (degC)	100.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	6	Tornado ..jk	
Start Date	6/10/2015 1:17:57 PM	Precipitation	3		
End Date	6/10/2015 1:17:59 PM	Cloud Cover	100.00		

Polygon Description 1158

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 1158

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Fraxinus nigra >> Acer rubrum
Sub Canopy	3 >2-6m	4 > 60%	Fraxinus nigra >> Betula Papyrifera > Picea mariana
Shrub	3 >2-6m	4 > 60%	Alnus incana >> Fraxinus nigra > Acer rubrum > Gaylussacia baccata
Groundcover	6 >0.2-0.5m	3 25 - 60%	Rubus idaeus > Carex intumescens
Floating & Submerged			

Stand Composition 1158

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	R	O	N
Deadfall / Logs	A	O	O	N

Species Dominance <10	Fraxinus Nigra
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1158

Community Age	
Ecosite	Ash Mineral Deciduous Swamp Ecosite
Ecosite Code	SWD2
Vegetation Type	Black Ash mineral Deciduous Swamp
Vegetation Type Code	SWD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	957

Notes		Location	Latitude:45.821741,Longitude:-80.674915,Altitude:195.1,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/10/2015 01:35:56 EDT
Dead	0.00		



Species	Tally	ID
Acer rubrum	2.00	1773
Fraxinus Nigra	9.00	1776
Picea mariana	2.00	1779

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		888
Location	Latitude:45.821723,Longitude:-80.674929,Altitude:193.1,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/10/2015 01:44:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	16.00	10.00	Organic fibric
Horizon 2	40.00	34.00	Sand
Horizon 3	60.00	30.00	Loamy sand
Horizon 4	120.00	15.00	Silty sand

% Surface Stone	0.00
Moisture Regime	8
Drainage	6
Effective Texture	Coarse sand

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M38	Field Crew	AYESHA ROB MATT	1161

Feature ID	ELC-S-M38(153)	Congruent Features	M38(153),M38(279),M38(627),M38(536),M38(534),M38(537)		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	6	Ughhh	
Start Date	6/10/2015 2:00:48 PM	Precipitation	0		
End Date	6/10/2015 2:00:51 PM	Cloud Cover	600.00		

Polygon Description 1161

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1161

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >> Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	4 >1-2m	2 10 - 25%	Juniperus communis >> Vaccinium angustifolium > Acer rubrum
Groundcover	7 <0.2m	2 10 - 25%	Cladina rangiferina >> Maianthemum Canadense > Carex sp
Floating & Submerged			

Stand Composition 1161

	<10	10-24	25-50	>50
Size Class Analysis	N	R	R	N
Standing Snags	N	R	R	N
Deadfall / Logs	R	R	O	N

Species Dominance <10	
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1161
Community Age	
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M12	Field Crew	KRISTAN WASHBURN	1164

Feature ID	ELC-N-M12(494)	Congruent Features	M12(497)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 11:31:30 AM	Precipitation	0		
End Date	6/10/2015 12:13:43 PM	Cloud Cover	70.00		

Polygon Description 1164

System	Terrestrial
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 1164

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Abies balsamea > fraxinus nigra
Sub Canopy	5 >0.5-1m	1 0% - 10%	Abies balsamea >Fraxinus nigra
Shrub	5 >0.5-1m	2 10 - 25%	Spiraea alba> Spiraea tomentosa > Acer spicatum
Groundcover	5 >0.5-1m	4 > 60%	Solidago canadensis > Carex spp.
Floating & Submerged		1 0% - 10%	Polygonum hydropiper

Stand Composition 1164

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Abies balsamea> Fraxinus nigra
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1164
Community Age	Young	
Ecosite	Forb mineral meadow marsh	
Ecosite Code	MAM2	
Vegetation Type	Mixed forb mineral meadow marsh	
Vegetation Type Code	MAM2-10	
Inclusion	Open aquatic	
Inclusion Code	OAO	
Complex		
Complex Code		

Soil Description

Pit ID	1	891

Location	Latitude:45.868588,Longitude:-80.618168,Altitude:177.4,Speed:0.12861112,Accuracy:1.8,Provider:gps,Time:06/10/2015 11:53:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	35.00
Slope Aspect (deg)	100.00	Gley	35.00
Slope Percent	2.00	Water Table	75.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	H
Horizon 2	48.00		SiCL
Horizon 3	70.00		mS
Horizon 4	120.00		SivfS

% Surface Stone	7.00
Moisture Regime	6
Drainage	6
Effective Texture	SiCL

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M12	Field Crew	KRISHNA WASHBURN AND JAMES KAMSTRA	1167

Feature ID	ELC-N-M12(493)	Congruent Features	M12(63)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 12:34:37 PM	Precipitation	0		
End Date	6/10/2015 12:57:41 PM	Cloud Cover	100.00		

Polygon Description 1167

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous
Community	Swamp

Stand Species 1167

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Fraxinus nigra >> Picea mariana> Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Acer spicatum
Shrub	4 >1-2m	3 25 - 60%	Acer spicatum > Corylus cornuta
Groundcover	5 >0.5-1m	4 > 60%	Aralia nudicaulis > Dryopteris carthusiana >Rubus pubescens
Floating & Submerged		0 None	

Stand Composition 1167

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Fraxinus nigra> Betula papyrifera
Species Dominance 10-24	Fraxinus nigra >> Betula papyrifera > Picea marian
Species Dominance 25-50	Fraxinus nigra> Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1167

Community Age	
Ecosite	Ash mineral deciduous swamp
Ecosite Code	SWD2
Vegetation Type	Black Ash Mineral Deciduous Swamp Ecosite
Vegetation Type Code	SWD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	960

Notes		Location	Latitude:45.868398,Longitude:-80.619486,Altitude:176.8,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/10/2015 12:57:16 EDT
Dead			



Species	Tally	ID
Fraxinus nigra	3.00	1782
Picea mariana	1.00	1785

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		894
Location	Latitude:45.868384,Longitude:-80.619458,Altitude:165.9,Speed:0.15433334,Accuracy:1.8,Provider:gps,Time:06/10/2015 12:47:01 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	30.00
Slope Aspect (deg)	100.00	Gley	20.00
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	25.00		fS
Horizon 3	70.00		SiC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	SiC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M12	Field Crew	KRISTAN WASHBURN ANS JAMES KAMSTRA	1170

Feature ID	ELC-N-M12(496)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 1:14:15 PM	Precipitation	0		
End Date	6/10/2015 1:35:17 PM	Cloud Cover	75.00		

Polygon Description 1170

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous
Community	Forest

Stand Species 1170

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Populus tremuloides > Acer rubrum> Fraxinus Nigra> Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides > Acer rubrum
Shrub	3 >2-6m	3 25 - 60%	Acer spicatum> Corylus cornuta
Groundcover	6 >0.2-0.5m	3 25 - 60%	Dryopteris carthusiana > Maianthemum canadense > aster macrophyllum
Floating & Submerged		0 None	

Stand Composition 1170

	<10	10-24	25-50	>50
Size Class Analysis	O	O	O	N
Standing Snags	O	O	O	N
Deadfall / Logs	O	A	O	N

Species Dominance <10	Populus tremuloides > Acer rubrum > Picea mariana
Species Dominance 10-24	Populus tremuloides > Acer rubrum> Picea mariana
Species Dominance 25-50	Populus tremulous> Picea mariana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1245

Community Age	
Ecosite	Fresh-moist popkar-white birch mixed forest
Ecosite Code	FOM8
Vegetation Type	Fresh-moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1032

Notes		Location	
		Latitude:45.868728,Longitude:-80.621256,Altitude:169.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/10/2015 01:27:48 EDT	
Dead	1.00		

Species	Tally	ID
Picea mariana	2.00	1905
Populus tremuloides	1.00	1908
Acer rubrum	1.00	1911

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		960
Location	Latitude:45.868734,Longitude:-80.621269,Altitude:168.7,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/10/2015 01:29:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	43.00
Slope Aspect (deg)	100.00	Gley	45.00
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	13.00	0.00	H
Horizon 2	47.00		SimS
Horizon 3	120.00		SANDY CLAY Loam
Horizon 4			

% Surface Stone	8.00
Moisture Regime	5
Drainage	7
Effective Texture	SiCL

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M23	Field Crew	ADAM, JASON	1173

Feature ID	ELC-S-M23(173)	Congruent Features	M23(208)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/10/2015 11:32:42 AM	Precipitation	0		
End Date	6/10/2015 11:44:37 AM	Cloud Cover	95.00		

Polygon Description 1173

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1173

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Alnus incana > Chamaedaphne calyculata
Groundcover	5 >0.5-1m	4 > 60%	Carex sp. > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1173

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1176

Community Age	Mid-Age
Ecosite	Alder organic deciduous thicket swamp
Ecosite Code	SWT3
Vegetation Type	Speckled alder organic deciduous thicket swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	969

Notes		Location	
		Latitude:45.82916,Longitude:-80.605101,Altitude:191.1,Speed:0.041155554,Accuracy:1.25,Provider:gps,Time:06/10/2015 11:43:13 EDT	
Dead			

Species	Tally	ID
Larix laricina	1.00	1797

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		897
Location	Latitude:45.829163,Longitude:-80.605097,Altitude:190.7,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/10/2015 11:40:54 EDT	Notes	Aspect 160
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Additional Notes

Bog



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M23	Field Crew	ADAM, JASON	1176

Feature ID	ELC-S-M23(173A)	Congruent Features	M23(401), M23(24), M23(402)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/10/2015 11:59:35 AM	Precipitation	0		
End Date	6/10/2015 12:17:11 PM	Cloud Cover	100.00		

Polygon Description 1176

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1176

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum > Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum > Quercus rubra > Pinus strobus
Shrub	5 >0.5-1m	4 > 60%	Corylus cornuta > Acer rubrum
Groundcover		3 25 - 60%	Pteridium aquilinum > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1176

	<10	10-24	25-50	>50
Size Class Analysis	O	O	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Acer rubrum
Species Dominance 25-50	Betula papyrifera > Acer rubrum
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1170

Community Age	Mid-Age
Ecosite	Dry-Fresh Upland Deciduous Forest
Ecosite Code	FOD4
Vegetation Type	Dry-fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	963

Notes		Location	
		Latitude:45.828201,Longitude:-80.605661,Altitude:196.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:06/10/2015 12:16:11 EDT	
Dead			

Species	Tally	ID
Acer rubrum	6.00	1788
Betula papyrifera	1.00	1791

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		900
Location	Latitude:45.828191,Longitude:-80.605665,Altitude:196.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/10/2015 12:13:02 EDT	Notes	Aspect 50
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	50.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	10.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	mfS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	2
Effective Texture	mfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M23	Field Crew	ADAM, JASON	1179

Feature ID	ELC-S-M23(175)	Congruent Features	M23(176), M23(403)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/10/2015 12:22:11 PM	Precipitation	0		
End Date	6/10/2015 12:32:35 PM	Cloud Cover	100.00		

Polygon Description 1179

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1179

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana = Pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Acer rubrum
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina > Vaccinium angustifolium > Danthonia spicata
Floating & Submerged		0 None	

Stand Composition 1179

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1173
Community Age	Mature
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	966

Notes		Location	Latitude:45.827674,Longitude:-80.60589,Altitude:197.7,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:06/10/2015 12:29:45 EDT
Dead	3.00		



Species	Tally	ID
None in		1794

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M25	Field Crew	TOM SHORNEY , DAN MCPARLAND	1197

Feature ID	ELC-S-M25(424)	Congruent Features	M25(172), M25(699)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	2		
Start Date	6/9/2015 10:47:25 AM	Precipitation	0		
End Date	6/9/2015 11:06:44 AM	Cloud Cover	30.00		

Polygon Description 1197

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1197

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana > Betula papyrifera
Shrub	5 >0.5-1m	4 > 60%	Juniperus communis = vaccinium angustifolium
Groundcover	6 >0.2-0.5m	4 > 60%	Cladina rangiferina > polytrichum juniperinum
Floating & Submerged			

Stand Composition 1197

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	R	O	R	N

Species Dominance <10	Pinus banksiana > Betula papyrifera
Species Dominance 10-24	Pinus banksiana > acer rubrum
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1194

Community Age	Mature
Ecosite	Acidic treed rock barren ecosite
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren type
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	987

Notes		Location	
		Latitude:45.834679,Longitude:-80.61171,Altitude:201.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/09/2015 11:05:51 EDT	
Dead	1.00		

Species	Tally	ID
Pinus banksiana	2.00	1824

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		918
Location	Latitude:45.834679,Longitude:-80.611709,Altitude:201.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/09/2015 11:03:15 EDT	Notes	Rock barren communiry
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	98.00	Bedrock
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M25	Field Crew	TOM SHORNEY , DAN MCPARLAND	1200

Feature ID	ELC-S-M25(204)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/9/2015 12:12:23 PM	Precipitation	0		
End Date	6/9/2015 12:31:25 PM	Cloud Cover	15.00		

Polygon Description 1200

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1200

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubra= Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubra = fraxinus nigra > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Alnus incana >> vaccinium angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Cornus canadensis = trientalis borealis > mainthemum canadensis
Floating & Submerged			

Stand Composition 1200

	<10	10-24	25-50	>50
Size Class Analysis	A	A	A	R
Standing Snags	O	O	O	R
Deadfall / Logs	R	R	R	N

Species Dominance <10	Fraxinus nigra = Betula papyrifera > acer rub
Species Dominance 10-24	Acer rubra > Betula papyrifera
Species Dominance 25-50	Acer rubra = Betula papyrifera
Species Dominance >50	Betula papyifera

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1197
Community Age	Mature	
Ecosite	Maple mineral deciduous swamp ecosite	
Ecosite Code	SWD3	
Vegetation Type	Red Maple Mineral deciduous swamp type	
Vegetation Type Code	SWD3-1	
Inclusion	Alder mineral thicket swamp type	
Inclusion Code	SWT2-1	
Complex		
Complex Code		

Tree Tally 990

Notes

Dead

Location

Latitude:45.837148,Longitude:-80.612492,Altitude:193.0,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/09/2015 12:24:14 EDT



Species	Tally	ID
Betula papyrifera	4.00	1827
Acer rubra	6.00	1830

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		921
Location	Latitude:45.836855,Longitude:-80.61193,Altitude:194.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/09/2015 11:38:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	25.00
Slope Aspect (deg)	0.00	Gley	60.00
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	Organic humic
Horizon 2	25.00	60.00	Sandy clay
Horizon 3	55.00	65.00	Siltysand
Horizon 4	85.00	20.00	Sand

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Sand

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M25	Field Crew	TOM SHORNEY , DAN MCPARLAND	1203

Feature ID	ELC-S-M25(452)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/9/2015 1:19:57 PM	Precipitation	0		
End Date	6/10/2015 10:00:17 PM	Cloud Cover	65.00		

Polygon Description 1203

System	Aquatic
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Submerged,Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 1203

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina
Shrub	5 >0.5-1m	1 0% - 10%	Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex lasiocarpa > Carex lacustris
Floating & Submerged		1 0% - 10%	Ultricularia intermedia

Stand Composition 1203

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina > Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1200

Community Age	Mature
Ecosite	Graminoid Open Fen Ecosite
Ecosite Code	FEO1
Vegetation Type	Slender sedge open Fen type
Vegetation Type Code	FEO1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	993

Notes		Location	Latitude:45.837078,Longitude:-80.614168,Altitude:194.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/09/2015 01:54:17 EDT
Dead			



Species	Tally	ID
Na	0.00	1833

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		924
Location	Latitude:45.837068,Longitude:-80.614213,Altitude:193.6,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:06/09/2015 01:22:06 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	1.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	80.00	0.00	Organic humic
Horizon 2	90.00	15.00	Sand
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Poor
Effective Texture	Sand

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M26	Field Crew	TOM SHORNEY, DAN MCPARLAND	1206

Feature ID	ELC-S-M26(500)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/9/2015 2:15:44 PM	Precipitation	0		
End Date	6/9/2015 3:20:27 PM	Cloud Cover	35.00		

Polygon Description 1206

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1206

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > > pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > acer rubrum
Shrub	5 >0.5-1m	4 > 60%	Juniperus communis > vaccinium angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Cladina rangiferina > Pteridium aquilinum
Floating & Submerged			

Stand Composition 1206

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubra > pinus banksiana
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1203

Community Age	
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Willow mineral thicket swamp type
Complex Code	SWT2-2

Tree Tally 996

Notes		Location	Latitude:45.841459,Longitude:-80.611981,Altitude:208.0,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:06/09/2015 03:14:19 EDT
Dead	1.00		



Species	Tally	ID
Pinus banksiana	1.00	1836

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		927
Location	Latitude:45.841457,Longitude:-80.611974,Altitude:208.8,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/09/2015 03:17:39 EDT	Notes	Rock barren community
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	100.00	Bedrock
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M26	Field Crew	TOM SHORNEY, DANMCPARLAND	1209

Feature ID	ELC-S-M26(250)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/9/2015 3:42:42 PM	Precipitation	0		
End Date	6/9/2015 4:06:20 PM	Cloud Cover	5.00		

Polygon Description 1209

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1209

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Populous tremuloides >> pinus strobus
Sub Canopy	2 >6-25m	4 > 60%	Acer rubra > Betula papyrifera > populus tremuloides
Shrub	4 >1-2m	3 25 - 60%	Alnus incana > acer rubra
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum moss> cornus canadensis > starflower
Floating & Submerged			

Stand Composition 1209

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	R
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubra > Betula papyrifera
Species Dominance 10-24	Acer rubra > populus tremuloides = Betula pap
Species Dominance 25-50	Populous tremuloides > pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1206

Community Age	Mid-Age
Ecosite	Maple mineral deciduous swamp ecosite
Ecosite Code	SWD3
Vegetation Type	Red Maple Mineral deciduous swamp type
Vegetation Type Code	SWD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	999

Notes		Location	Latitude:45.842318,Longitude:-80.609509,Altitude:206.8,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:06/09/2015 03:56:09 EDT
Dead	2.00		



Species	Tally	ID
Betula papyrifera	1.00	1839
Pinus banksiana	1.00	1842
Acer rubra	1.00	1845
Populous tremuloides	2.00	1848

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		930
Location	Latitude:45.842283,Longitude:-80.609511,Altitude:207.6,Speed:0.11832222,Accuracy:2.4,Provider:gps,Time:06/09/2015 03:44:43 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	30.00
Slope Aspect (deg)	0.00	Gley	30.00
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Organic humic
Horizon 2	30.00	10.00	Fine sand
Horizon 3	60.00		Silty loam
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Fresh to moist
Drainage	Imperfect
Effective Texture	Silty loam

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M30	Field Crew	TOM SHORNEY, DAN MCPARLAND	1212

Feature ID	ELC-S-M30(767)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	3		
Start Date	6/10/2015 12:43:09 PM	Precipitation	1		
End Date	6/10/2015 12:55:07 PM	Cloud Cover	100.00		

Polygon Description 1212

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1212

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Shrub	5 >0.5-1m	3 25 - 60%	Chamaedaphne calyculata > Kalmia angustifolia = kalmia polifolia
Groundcover	5 >0.5-1m	4 > 60%	Carex lasiocarpa = sphagnum spp
Floating & Submerged			

Stand Composition 1212

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina > pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1209

Community Age	
Ecosite	Deciduous shrub Fen Ecosite
Ecosite Code	FES1
Vegetation Type	Leatherleaf Forb shrub Fen Type
Vegetation Type Code	FES1-4
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1002

Notes		Location	Latitude:45.838091,Longitude:-80.644358,Altitude:190.8,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/10/2015 12:53:23 EDT
Dead			

Species	Tally	ID
Na	0.00	1851

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		933
Location	Latitude:45.838091,Longitude:-80.644358,Altitude:190.8,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/10/2015 12:53:48 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	1.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Organic fibric
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M30	Field Crew	TOM SHORNEY , DAN MCPARLAND	1215

Feature ID	ELC-S-M30(768)	Congruent Features	M30(769)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	4		
Start Date	6/10/2015 1:36:29 PM	Precipitation	0		
End Date	6/10/2015 1:44:26 PM	Cloud Cover	100.00		

Polygon Description 1215

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1215

	Height	Cover	Species Dominance
Canopy			
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina = Pinus banksiana = picea mariana
Shrub	4 >1-2m	4 > 60%	Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex lasiocarpa = Carex lacustrina > sphagnum spp
Floating & Submerged			

Stand Composition 1215

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina = Pinus banksiana = picea ma
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1212

Community Age	Mid-Age
Ecosite	Alder Organic deciduous Thicket Swamp Ecosite
Ecosite Code	SWT3
Vegetation Type	Speckled Alder Organic Deciduous Thicket Swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1005

Notes		Location	Latitude:45.837888,Longitude:-80.642065,Altitude:190.8,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/10/2015 01:43:06 EDT
Dead			

Species	Tally	ID
Na	0.00	1854

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		936
Location	Latitude:45.837888,Longitude:-80.642067,Altitude:190.8,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/10/2015 01:43:32 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Organic fibric
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately wet
Drainage	Very poor
Effective Texture	Organic fibric

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M21	Field Crew	KASEY & NATALIYA	1218

Feature ID	ELC-S-M21(694)	Congruent Features	M21(529), M21(209)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	6/11/2015 10:20:20 AM	Precipitation	0		
End Date	6/11/2015 10:45:05 AM	Cloud Cover	20.00		

Polygon Description 1218

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1218

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	5 >0.5-1m	4 > 60%	Vaccang > vaccmry > Junicom > kalmpol
Groundcover	7 <0.2m	4 > 60%	Cladina sp > descflu > Dantcom > maiacan
Floating & Submerged		0 None	

Stand Composition 1218

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	A	A	R	N
Deadfall / Logs	A	A	R	N

Species Dominance <10	Pinuban
Species Dominance 10-24	Pinuban
Species Dominance 25-50	Pinuban
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1215
Community Age	Mid-Age
Ecosite	Acidic Treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Tamarack - Leatherleaf treed kettle bog
Complex Code	BOT2-1

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M21	Field Crew	KASEY & NATALIYA	1221

Feature ID	ELC-S-M21(335)	Congruent Features	M21(333), M21(334), M21(252)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	6/11/2015 11:02:49 AM	Precipitation	0		
End Date	6/11/2015 11:22:07 AM	Cloud Cover	0.00		

Polygon Description 1221

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1221

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acerrub > betupap > poputre
Sub Canopy	2 >6-25m	4 > 60%	Acerrub > betupap > poputre
Shrub	4 >1-2m	4 > 60%	Corycor > pteraqu > vibulen
Groundcover	7 <0.2m	4 > 60%	Maiacan > astemac > aralnud > gaulpro
Floating & Submerged		0 None	

Stand Composition 1221

	<10	10-24	25-50	>50
Size Class Analysis	O	A	A	R
Standing Snags	O	O	O	R
Deadfall / Logs	A	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1218
Community Age	Mature	
Ecosite	Dry - fresh upland deciduous forest	
Ecosite Code	FODM4	
Vegetation Type	Dry - fresh red maple deciduous forest	
Vegetation Type Code	FODM4-7	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1008

Notes

Location

Latitude:45.826356,Longitude:-80.619244,Altitude:192.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/11/2015 11:17:19 EDT



Dead 3.00

Species	Tally	ID
Betupap	10.00	1857
Acerrub	2.00	1860

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		939
Location	Latitude:45.826373,Longitude:-80.619223,Altitude:192.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:06/11/2015 11:09:31 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	20.00	Carbonates	
		Bedrock	50.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	Om
Horizon 2	50.00	0.00	mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	mS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M12	Field Crew	TOM SHORNEY, DAN MCPARLAND	1224

Feature ID	ELC-S-M12(578)	Congruent Features	M12(520), M13(684)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	2		
Start Date	6/11/2015 9:13:44 AM	Precipitation	0		
End Date	6/11/2015 9:34:34 AM	Cloud Cover	5.00		

Polygon Description 1224

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Deciduous,Coniferous
Community	Barren

Stand Species 1224

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > acer rubra > populus tremuloides
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana >acer rubra
Shrub	5 >0.5-1m	4 > 60%	Juniperus communis >> vaccinium angustifolia
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina > grass sp. > maianthemum canadensis
Floating & Submerged			

Stand Composition 1224

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	A	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus banksiana > acer rubra > Betula papyr
Species Dominance 10-24	Pinus banksiana > acer rubra > Betula papyri
Species Dominance 25-50	Pinus banksiana > > pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1221

Community Age	Mature
Ecosite	Acidic treed rock barren ecosite
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren type
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1011

Notes		Location	
		Latitude:45.846879,Longitude:-80.627009,Altitude:199.8,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:06/11/2015 09:33:38 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	1.00	1863
Acer rubra	1.00	1866
Populous tremuloides	1.00	1869

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		942
Location	Latitude:45.846872,Longitude:-80.627024,Altitude:199.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/11/2015 09:30:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Bedrock
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	100.00
Moisture Regime	Dry
Drainage	Very rapid
Effective Texture	Bedrock

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M12	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1227

Feature ID	ELC-N-M12(495)	Congruent Features	M12(491), M12(430)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 1:58:52 PM	Precipitation	1		
End Date	6/10/2015 2:06:38 PM	Cloud Cover	100.00		

Polygon Description 1227

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1227

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana> Acer rubrum> Betula papyrifera
Sub Canopy	3 >2-6m	1 0% - 10%	Punus banksiana > Pinus strobus> Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Vaccinium angustifolium> Vaccinium myrtilloides > Juniperus communis >
Groundcover	7 <0.2m	3 25 - 60%	Cladina spp. > Polytrichum spp. > DESCHAMPSIA FLEXUOSA
Floating & Submerged		0 None	

Stand Composition 1227

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Punus banksiana > Acer rubrum > Betula papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1248

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Blueberry Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1035

Notes

Dead

Location

Latitude:45.86856,Longitude:-80.62231,Altitude:187.2,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:06/10/2015 02:08:11 EDT



Species	Tally	ID
Pinus banksiana	2.00	1914

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M24	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1230

Feature ID	ELC-N-M24(482)	Congruent Features	M24(484), M24(486), M24(485), M24(481), M24(449), M24 (440)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 3:16:01 PM	Precipitation	1		
End Date	6/10/2015 3:23:45 PM	Cloud Cover	100.00		

Polygon Description 1230

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1230

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana> Picea glauxca> Pinus strobus
Sub Canopy	4 >1-2m	2 10 - 25%	Pinus banksiana > pinus strobus
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis> Vaccinium angustifolia > Vaccinium myrtilloides
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp. > polytrichum spp.
Floating & Submerged		0 None	

Stand Composition 1230

	<10	10-24	25-50	>50
Size Class Analysis	O	R	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus banksiana > pinus strobus> picea glauca
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1224
Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1014
Notes	
Location	Latitude:45.862556,Longitude:-80.63976,Altitude:182.5,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:06/10/2015 03:25:36 EDT
Dead	1.00



Species	Tally	ID
Pinus banksiana	1.00	1872

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M24	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1233

Feature ID	ELC-N-M(483)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/10/2015 3:35:13 PM	Precipitation	0		
End Date	6/10/2015 3:48:42 PM	Cloud Cover	100.00		

Polygon Description 1233

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Bryophyte
Community	Marsh

Stand Species 1233

	Height	Cover	Species Dominance
Canopy	7 <0.2m	0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	1 0% - 10%	Alnus incana > Chaemadaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Carex spp> Sphagnum spp
Floating & Submerged		0 None	

Stand Composition 1233

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1227
Community Age		
Ecosite	Graminoid Organic shallow marsh	
Ecosite Code	MAS3	
Vegetation Type	Broad leaved sedge organic shallow marsh	
Vegetation Type Code	MAS3-4	
Inclusion	Open fen	
Inclusion Code	FEO	
Complex		
Complex Code		

Soil Description

Pit ID	1	945

Location	Latitude:45.862871,Longitude:-80.639294,Altitude:181.8,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/10/2015 03:49:50 EDT		Notes	
			Depth to: (cm)	
Slope Position	6 Level		Mottles	
Slope Aspect (deg)	59.00		Gley	100.00
Slope Percent	0.00		Water Table	10.00
Slope Length (m)	10.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Of
Horizon 2	120.00		VfS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M46	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1236

Feature ID	ELC-S-M46(428)	Congruent Features	M46(429)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 1:17:20 PM	Precipitation	0		
End Date	6/11/2015 2:30:43 PM	Cloud Cover	30.00		

Polygon Description 1236

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1236

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina > betula papyrifera> Pinus strobus
Sub Canopy	4 >1-2m	2 10 - 25%	Larix laricina > betula papyrifera> Acer rubrum
Shrub	3 >2-6m	4 > 60%	Nemopanthus mucronatus > Alnus incana > Viburnum cassinoides
Groundcover	5 >0.5-1m		Sphagnumspp. > Cornuscanadensis >trientalis borealis
Floating & Submerged		0 None	

Stand Composition 1236

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Larix laricina > betula papyrifera > Acer rubrum
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1230

Community Age	Mid-Age
Ecosite	White Pine-Hemlock Mineral Coniferous Swamp Ecosit
Ecosite Code	SWC2
Vegetation Type	White Pine Mineral Coniferous Swamp Type
Vegetation Type Code	SWC2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1017

Notes

Dead

Location

Latitude:45.826684,Longitude:-80.681797,Altitude:179.6,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:06/11/2015 01:27:28 EDT



Species	Tally	ID
Larix laricina	1.00	1875

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		948
Location	Latitude:45.82669,Longitude:-80.681804,Altitude:180.6,Speed:0.10288889,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:30:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	59.00	Gley	45.00
Slope Percent	51.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	Of
Horizon 2	45.00	53.00	SicS
Horizon 3	90.00	26.00	SimS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	7
Effective Texture	SimS

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M46	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1239

Feature ID	ELC-S-M46(491)	Congruent Features	M46(273), M46(269),M46(633), M46(631), M46(632), M46 (490), M46(636), M46(494)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 1:49:45 PM	Precipitation	0		
End Date	6/11/2015 1:56:14 PM	Cloud Cover	75.00		

Polygon Description 1239

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1239

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana> Betula papyrifera > Picea glauca
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana > Betula papyrifera> Acer rubrum
Shrub	5 >0.5-1m	3 25 - 60%	Vaccinium angustifolium >Juniperus communis
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cladina spp. > Polytrichum spp.
Floating & Submerged		0 None	

Stand Composition 1239

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinusbanksiana > Beryl papyrifera
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1233

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Blueberry Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1020

Notes		Location	Latitude:45.826383,Longitude:-80.680857,Altitude:176.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/11/2015 01:59:01 EDT
Dead			



Species	Tally	ID
Pinus banksiana	3.00	1878

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M46	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1242

Feature ID	ELC-S-M46(5)	Congruent Features	M46(6), M46(12)		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 2:09:01 PM	Precipitation	0		
End Date	6/11/2015 2:26:36 PM	Cloud Cover	30.00		

Polygon Description 1242

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Fen

Stand Species 1242

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina > pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Larix laricina > picea mariana
Shrub	4 >1-2m	2 10 - 25%	Kalmia angustifolia > Chamaedaphne calyculata > Nemopanthus mucronatum
Groundcover	5 >0.5-1m	3 25 - 60%	Sphagnum spp. > Woodwordia virginica> Maianthemum trifolia
Floating & Submerged		0 None	

Stand Composition 1242

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina > pinus banksiana
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1236

Community Age	
Ecosite	Coniferous treed fen
Ecosite Code	FET1
Vegetation Type	Tamarak treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1023

Notes

Dead

Location

Latitude:45.825885,Longitude:-80.678916,Altitude:178.2,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/11/2015 02:18:54 EDT



Species	Tally	ID
Larix laricina	1.00	1881

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		951
Location	Latitude:45.825878,Longitude:-80.678925,Altitude:177.9,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:06/11/2015 02:19:38 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	59.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	100.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M46	Field Crew	KRISTAN WASHBURN AND JAMESKAMSTRA	1245

Feature ID	ELC-S-M46(273)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 2:43:31 PM	Precipitation	0		
End Date	6/11/2015 2:57:52 PM	Cloud Cover	10.00		

Polygon Description 1245

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Swamp

Stand Species 1245

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Larix laricina > Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > LARIX LARICINA > PRICE MARIANA
Shrub	4 >1-2m	3 25 - 60%	Kalmia angustifolia > Nemopanthus mucronatus > Vaccinium myrtilloides
Groundcover	4 >1-2m	4 > 60%	Sphagnum spp. > Maianthemum trifolia
Floating & Submerged		0 None	

Stand Composition 1245

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Larix laricina
Species Dominance 10-24	Pinus banskaiana > Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1239
Community Age	Mid-Age
Ecosite	Tamarack-Black Spruce Organic Coniferous Swamp Eco
Ecosite Code	SWC4
Vegetation Type	Tamarack Black Spruce Organic Coniferous Swamp Typ
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1026

Notes

Location

Latitude:45.826341,Longitude:-80.679064,Altitude:181.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/11/2015 02:54:45 EDT



Dead

Species	Tally	ID
Larix laricina	1.00	1884
Pinus banksiana	5.00	1887
Betula papyrifera	1.00	1890

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		954
Location	Latitude:45.82634,Longitude:-80.679065,Altitude:181.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/11/2015 02:53:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	25.00	Gley	0.00
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	50.00	25.00	Of
Horizon 2	60.00	25.00	Oh
Horizon 3			
Horizon 4			

% Surface Stone	29.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes

Dominant jack pine but that wasnt an option

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M46	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1248

Feature ID	ELC-S-M46(11)	Congruent Features	M46(138)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/11/2015 3:39:34 PM	Precipitation	0		
End Date	6/11/2015 4:01:40 PM	Cloud Cover	100.00		

Polygon Description 1248

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 1248

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acer RUBRUM> POPULUS TREMULOIDES > PICEA GLuaca
Sub Canopy	2 >6-25m	4 > 60%	Acer rubrum > Picea glauca> pinus strobus
Shrub	3 >2-6m	4 > 60%	Corylus cornuta> vibernum cassinoides > Vaccinium angustifolia
Groundcover	5 >0.5-1m	3 25 - 60%	Cornus canadensis> Maianthemum canadense > Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1248

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	R
Standing Snags	O	O	O	N
Deadfall / Logs	O	O	O	N

Species Dominance <10	Acer rubrum > populus tremuloides> pinus strobus
Species Dominance 10-24	Acer rubrum > Populus tremuloides> pinus strobus
Species Dominance 25-50	Acer rubrum> Populus tremuloides > pinus strobus
Species Dominance >50	Acer rubrum

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1242

Community Age	Mature
Ecosite	Dry-Fresh White Birch-Poplar-Conifer Mixed Forest
Ecosite Code	FOM5
Vegetation Type	Dry-Fresh Poplar Mixed Forest Type
Vegetation Type Code	FOM5-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1029

Notes

Dead 1.00

Location

Latitude:45.825346,Longitude:-80.688035,Altitude:171.3,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:06/11/2015 03:53:53 EDT



Species	Tally	ID
Acer rubrum	3.00	1893
Pinus strobus	1.00	1896
Picea glauca	1.00	1899
Populus tremuloides	3.00	1902

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		957
Location	Latitude:45.825392,Longitude:-80.688003,Altitude:173.1,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/11/2015 03:59:23 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	1.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	10.00	H
Horizon 2	20.00		SimS
Horizon 3			
Horizon 4			

% Surface Stone	81.00
Moisture Regime	0
Drainage	3
Effective Texture	SimS

Additional Notes

Dominant Acer rubrum/pine ... no ecosite or veg type fits

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M42	Field Crew	KASEY & NATALIYA	1251

Feature ID	ELC-S-M42(416)	Congruent Features	M42(418)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	6/12/2015 9:48:57 AM	Precipitation	2		
End Date	6/12/2015 10:11:12 AM	Cloud Cover	100.00		

Polygon Description 1251

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1251

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acerrub >> populbal > poputre
Sub Canopy	2 >6-25m	4 > 60%	Acerrub >> popubal > poputre
Shrub	5 >0.5-1m	4 > 60%	Acerrub > spiralb > pteraqu > vaccang
Groundcover	7 <0.2m	4 > 60%	Maiacan > corncan > triebor > aralnud
Floating & Submerged		0 None	

Stand Composition 1251

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	R
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1251

Community Age	Young
Ecosite	Dry-Fresh Upland Deciduous Forest
Ecosite Code	FOD4
Vegetation Type	Dry - fresh red maple deciduous forest
Vegetation Type Code	FODM4-7
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1038

Notes

Dead

Location

Latitude:45.814592,Longitude:-80.646532,Altitude:184.9,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/12/2015 10:07:34 EDT



Species	Tally	ID
Popubal	4.00	1917
Picegla	1.00	1920
Acerrub	2.00	1923

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		963
Location	Latitude:45.814568,Longitude:-80.646757,Altitude:179.6,Speed:0.025722222,Accuracy:2.7,Provider:gps,Time:06/12/2015 09:49:43 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	161.00	Gley	
Slope Percent	6.00	Water Table	
Slope Length (m)	15.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Oh
Horizon 2	40.00		cS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	cS

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M41	Field Crew	KASEY & NATALIYA	1254

Feature ID	ELC-S-M41(724)	Congruent Features	M42(417)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	6/12/2015 10:19:15 AM	Precipitation	1		
End Date	6/12/2015 10:41:08 AM	Cloud Cover	100.00		

Polygon Description 1254

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1254

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Acerrub > querrub > poputre
Sub Canopy	2 >6-25m	4 > 60%	Acerrub > querrub > poputre
Shrub	5 >0.5-1m	4 > 60%	Pteraqu > acerrub > corycor > vaccang
Groundcover	7 <0.2m	4 > 60%	Maiacan > corncan > triebor > gaulpro
Floating & Submerged		0 None	

Stand Composition 1254

	<10	10-24	25-50	>50
Size Class Analysis	O	R	R	N
Standing Snags	R	R	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1254
Community Age	Mid-Age	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type	Dry - fresh red maple deciduous forest	
Vegetation Type Code	FODM4-7	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1041

Notes		Location	
		Latitude:45.815584,Longitude:-80.647019,Altitude:0.0,Speed:0.0,Accuracy:100.0,Provider:gps,Time:06/12/2015 10:30:00 EDT	
Dead	1.00		

Species	Tally	ID
Querrub	8.00	1926
Poputre	2.00	1929
Acerrub	1.00	1932

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		966
Location	Latitude:45.81558,Longitude:-80.647014,Altitude:185.0,Speed:0.030866666,Accuracy:2.0,Provider:gps,Time:06/12/2015 10:20:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	345.00	Gley	
Slope Percent	4.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Om
Horizon 2	20.00	0.00	SL
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	SL

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M41	Field Crew	KASEY & NATALIYA	1257

Feature ID	ELC-S-M41(463)	Congruent Features	M41(722), M41(723)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	6/12/2015 11:05:47 AM	Precipitation	1		
End Date	6/12/2015 11:14:49 AM	Cloud Cover	100.00		

Polygon Description 1257

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1257

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	5 >0.5-1m	3 25 - 60%	VAccang > Junicom > dierlon
Groundcover	7 <0.2m	4 > 60%	Cladina sp > Dantcom > descflu > maiacan
Floating & Submerged			

Stand Composition 1257

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	A	A	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1257
Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M41	Field Crew	KASEY & NATALIYA	1260

Feature ID	ELC-S-M41(411)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	0		
Start Date	6/12/2015 11:33:07 AM	Precipitation	1		
End Date	6/12/2015 11:45:54 AM	Cloud Cover	100.00		

Polygon Description 1260

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Swamp

Stand Species 1260

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Ulnuinc > spiralb > spirtom
Groundcover	7 <0.2m	4 > 60%	Carelac > carestr > onocsen
Floating & Submerged		0 None	

Stand Composition 1260

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1260
Community Age	Mid-Age	
Ecosite	Alder mineral deciduous thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Speckled alder mineral deciduous thicket swam	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	969

Location	Latitude:45.821854,Longitude:-80.648678,Altitude:180.4,Speed:0.08231111,Accuracy:1.75,Provider:gps,Time:06/12/2015 11:32:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	71.00	Gley	
Slope Percent	6.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	120.00	10.00	cS
Horizon 3			
Horizon 4			

% Surface Stone	10.00
Moisture Regime	6
Drainage	2
Effective Texture	cS

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M47	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1263

Feature ID	ELC-S-M47(58)	Congruent Features	M47(640)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/12/2015 9:01:30 AM	Precipitation	2		
End Date	6/12/2015 9:18:55 AM	Cloud Cover	100.00		

Polygon Description 1263

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte
Community	Swamp

Stand Species 1263

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Picea mariana > Larix laricina
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > Larix laricina> pinus strobus
Shrub	3 >2-6m	4 > 60%	Alnus incana> Nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp. > Maianthemum trifolia> Woodwardia virginica
Floating & Submerged		0 None	

Stand Composition 1263

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	Picea mariana > Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1263

Community Age	Mid-Age
Ecosite	Tamarack-black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamara-black spruce organic coniferous forest
Vegetation Type Code	SWC4-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1044

Notes

Dead

Location

Latitude:45.825662,Longitude:-80.689606,Altitude:182.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/12/2015 09:12:06 EDT



Species	Tally	ID
Picea mariana	1.00	1935
Larix laricina	1.00	1938

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		972
Location	Latitude:45.825676,Longitude:-80.689684,Altitude:183.9,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:06/12/2015 09:15:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	165.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	45.00	100.00	Of
Horizon 2	65.00		Om
Horizon 3	120.00		SimS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M47	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1266

Feature ID	ELC-S-M47(642)	Congruent Features	M47(259B), M47(643)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	2		
Start Date	6/12/2015 9:40:09 AM	Precipitation	2		
End Date	6/12/2015 10:20:12 AM	Cloud Cover	100.00		

Polygon Description 1266

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous,Mixed
Community	Forest

Stand Species 1266

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinus strobus > Pinus banksiana > Acer rubrum > populus tremuloides
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus strobus> Acer rubrum > Populus tremuloides
Shrub	3 >2-6m	2 10 - 25%	Vaccinium myrtilloides > Vaccinium angustifolium> Juniperus communis
Groundcover	6 >0.2-0.5m	3 25 - 60%	Sphagnum spp. > CLAdina SPP. > MAIANTHEMUM CANADENSE> Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1266

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus strobus > Acer rubrum > Populus tremuloides
Species Dominance 10-24	PINUS STROBUS > ACE. RUBRUM> PINUS BANKSIANA
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1266

Community Age	
Ecosite	Dry-Fresh Pine Coniferous Forest Ecosite
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1047

Notes		Location	Latitude:45.825428,Longitude:-80.695516,Altitude:181.5,Speed:0.21092223,Accuracy:2.7,Provider:gps,Time:06/12/2015 09:52:21 EDT
Dead	1.00		



Species	Tally	ID
Pinus strobus	7.00	1941
Acer rubrum	2.00	1944

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		975
Location	Latitude:45.82542,Longitude:-80.695522,Altitude:180.6,Speed:0.19548889,Accuracy:2.7,Provider:gps,Time:06/12/2015 09:58:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	1 Crest	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	25.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	O
Horizon 2	20.00		SL
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	Dry/very rapid
Effective Texture	SL

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M47	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1269

Feature ID	ELC-S-M47(259)	Congruent Features	M47(56), M57(638), M57(727)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	1		
Start Date	6/12/2015 10:09:01 AM	Precipitation	2		
End Date	6/12/2015 10:15:23 AM	Cloud Cover	100.00		

Polygon Description 1269

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1269

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana >Pinus strobus > Acer rubrum
Sub Canopy		2 10 - 25%	Pinus banksiana > pinus strobus
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis > Vaccinium angustifolia > Vaccinium myrtilloides
Groundcover	7 <0.2m	4 > 60%	Cladina spp. > polytrichum spp.
Floating & Submerged		0 None	

Stand Composition 1269

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > pinus strobus
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1269

Community Age	Mid-Age
Ecosite	Acidic Open Rock Barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic Open Rock Barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1050

Notes

Dead

Location

Latitude:45.826432,Longitude:-80.696117,Altitude:203.1,Speed:0.33953333,Accuracy:3.6,Provider:gps,Time:06/12/2015 10:18:02 EDT



Species	Tally	ID
Pinus banksiana	1.00	1947

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M47	Field Crew	KRISTAN WASHBURN AND JAMES KAMSTRA	1272

Feature ID	ELC-S-M47(442)	Congruent Features	M47(441)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM16	Wind Speed (beaufort)	1		
Start Date	6/12/2015 10:23:29 AM	Precipitation	2		
End Date	6/12/2015 10:42:05 AM	Cloud Cover	100.00		

Polygon Description 1272

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte
Community	Fen

Stand Species 1272

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata > Nemopanthus mucronatus
Groundcover			Sphagnum sp> Carex magilantica> Calla palustris
Floating & Submerged		0 None	

Stand Composition 1272

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	O		N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1272
Community Age		
Ecosite	Deciduous shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-forb shrub fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		978
Pit ID	2	

Location	Latitude:45.827197,Longitude:-80.697535,Altitude:188.8,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/12/2015 10:45:18 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	9.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1293

Feature ID	ELC-S-M9(777)	Congruent Features	M9(786), M9(554)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/15/2015 9:02:34 AM	Precipitation	1		
End Date	6/15/2015 9:40:59 AM	Cloud Cover	100.00		

Polygon Description 1293

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Forest

Stand Species 1293

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum > Populus tremuloides > Fraxinus nigra
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Fraxinus nigra > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta > Nemopanthus mucronatus > Pteridium aquilinum > Fraxinus nigra
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Cornus canadensis > Trientalis borealis >
Floating & Submerged		0 None	

Stand Composition 1293

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum > Fraxinus nigra
Species Dominance 10-24	Acer rubrum > Populus tremuloides
Species Dominance 25-50	Acer rubrum> populus tremuloides > Betula papyrife
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1293
Community Age	Mid-Age	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type	Dry-fresh red maple deciduous forest	
Vegetation Type Code	FODM4-7	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1056

Notes		Location	
		Latitude:45.847878,Longitude:-80.616933,Altitude:191.5,Speed:0.0926,Accuracy:2.25,Provider:gps,Time:06/15/2015 09:35:38 EDT	
Dead			

Species	Tally	ID
Acer rubrum	9.00	1962
Populus tremuloides	2.00	1965
Abies balsamea	1.00	1968

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		993
Location	Latitude:45.847924,Longitude:-80.617207,Altitude:180.8,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/15/2015 09:03:59 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	0.00
Slope Aspect (deg)	20.00	Gley	0.00
Slope Percent	2.00	Water Table	70.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00	0.00	LfS
Horizon 3	30.00		Fs
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	2
Effective Texture	Fs

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1296

Feature ID	ELC-S-M9(780)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/15/2015 9:52:39 AM	Precipitation	1		
End Date	6/15/2015 10:23:44 AM	Cloud Cover	100.00		

Polygon Description 1296

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Swamp

Stand Species 1296

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Larix laricina > Acer rubrum >Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina > Acer rubrum
Shrub	5 >0.5-1m	2 10 - 25%	Alnus incana > Nemopanthus mucronatus > Osmunda regalis
Groundcover	6 >0.2-0.5m	2 10 - 25%	Vaccinium angustifolium > Rubus pubescens > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1296

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina > Alnus incana
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	Larix laricina
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1296
Community Age	Mid-Age
Ecosite	Maple Mineral Mixed Swamp Ecosite
Ecosite Code	SWM2
Vegetation Type	Red Maple-Conifer Mineral Mixed Swamp Type
Vegetation Type Code	SWM2-1
Inclusion	
Inclusion Code	
Complex	Mineral shallow marsh
Complex Code	MAS2-4

Tree Tally 1059

Notes

Dead

Location

Latitude:45.847566,Longitude:-80.615682,Altitude:197.2,Speed:0.0926,Accuracy:1.75,Provider:gps,Time:06/15/2015 10:09:47 EDT



Species	Tally	ID
Larix laricina	7.00	1971

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

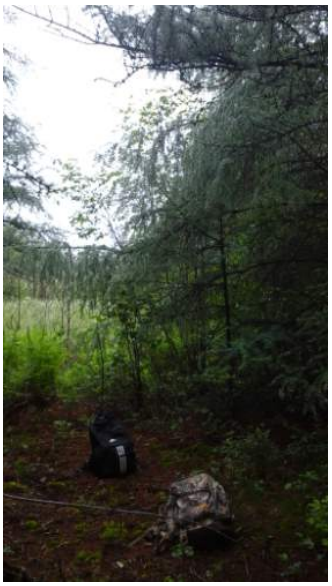
Soil Description

Pit ID	1		996
Location	Latitude:45.847639,Longitude:-80.615681,Altitude:194.9,Speed:0.07202222,Accuracy:1.5,Provider:gps,Time:06/15/2015 09:54:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	20.00
Slope Aspect (deg)	12.00	Gley	
Slope Percent	2.00	Water Table	60.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	12.00		Ls
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	Ls

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1299

Feature ID	ELC-S-M9(781)	Congruent Features	M9(782), M9(784), M9(558), M9(567), M9(560), M9(565), M9(562), M9(353)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/15/2015 10:33:39 AM	Precipitation	0		
End Date	6/15/2015 10:46:50 AM	Cloud Cover	100.00		

Polygon Description 1299

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1299

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > pinus strobus
Shrub	5 >0.5-1m	3 25 - 60%	Vacinnium angustifolium > Juniperus communis > Diervilla Lonicera
Groundcover	6 >0.2-0.5m	3 25 - 60%	Lichen sp. >Deschampsia flexuosa > aster macrohyllus
Floating & Submerged		0 None	

Stand Composition 1299

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana > Pinus strobus
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1299

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBS3
Vegetation Type	Blueberry Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-1
Inclusion	
Inclusion Code	
Complex	Dry-fresh white pine-hardwood mixed forest
Complex Code	FOMM2-3

Tree Tally	1062

Notes		Location	Latitude:45.846932,Longitude:-80.614522,Altitude:195.2,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/15/2015 10:45:14 EDT
Dead			



Species	Tally	ID
Pinus banksiana	2.00	1974

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1302

Feature ID	ELC-S-M9(773)	Congruent Features	M9(569)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/15/2015 10:53:30 AM	Precipitation	0		
End Date	6/15/2015 11:21:59 AM	Cloud Cover	100.00		

Polygon Description 1302

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1302

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus = Picea mariana > Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum = Betula papyrifera > Picea mariana > Pinus resinosa
Shrub	5 >0.5-1m	2 10 - 25%	Corylus cornuta > Viburnum lentago > Amilancher laevis > Vaccinium angustifolium
Groundcover	7 <0.2m	2 10 - 25%	Cornus canadensis > Gaultheria procumbens > Coptis trifolia > Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1302

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Picea mariana
Species Dominance 10-24	Acer rubrum > Betula papyrifera > Picea mariana
Species Dominance 25-50	Acer rubrum > Pinus resinosa
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1302

Community Age	Mid-Age
Ecosite	Dry-Fresh Pine Coniferous Forest Ecosite
Ecosite Code	FOC1
Vegetation Type	Dry-Fresh White Pine-Red Pine Coniferous Forest Ty
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1065

Notes		Location	Latitude:45.847233,Longitude:-80.613265,Altitude:198.8,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/15/2015 11:13:25 EDT
Dead			



Species	Tally	ID
Acer rubrum	3.00	1977
Pinus resinosa	3.00	1980
Pinus strobus	1.00	1983
Betula papyrifera	2.00	1986

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		999
Location	Latitude:45.847173,Longitude:-80.613539,Altitude:194.3,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:06/15/2015 10:55:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	35.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	83.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	10.00		mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	mS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1305

Feature ID	ELC-S-M9(785)	Congruent Features	M9(557)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	6/15/2015 11:38:22 AM	Precipitation	0		
End Date	6/15/2015 11:58:49 AM	Cloud Cover	100.00		

Polygon Description 1311

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 1311

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum> Betula papyrifera > Populus tremuloides
Sub Canopy	3 >2-6m	4 > 60%	Acer rubrum > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Alnus incana > Viburnum lentago > Nemopanthus mucronatus > Acer rubrum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Cornus canadensis > Rubus pubescens > Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1311

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Acer rubrum > Betula papyrifera
Species Dominance 25-50	Acer rubrum
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1311

Community Age	Mid-Age
Ecosite	Maple mineral deciduous swamp
Ecosite Code	SWD3
Vegetation Type	Red maple deciduous swamp
Vegetation Type Code	SWD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1068

Notes		Location	
		Latitude:45.847132,Longitude:-80.61223,Altitude:196.4,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:06/15/2015 11:52:44 EDT	
Dead	1.00		

Species	Tally	ID
Acer rubrum	4.00	1989
Populus tremuloides	1.00	1992
Betula papyrifera	1.00	1995

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1008
Location	Latitude:45.847052,Longitude:-80.612302,Altitude:194.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/15/2015 11:38:39 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	10.00		Cs
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	Cs

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	NATALIYA & CASEY	1308

Feature ID	ELC-S-M9(561)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	2		
Start Date	6/15/2015 1:19:15 PM	Precipitation	0		
End Date	6/15/2015 1:39:21 PM	Cloud Cover	100.00		

Polygon Description 1305

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Floating-LVD,Graminoid,Forb,Bryophyte
Community	Bog

Stand Species 1305

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata
Groundcover	7 <0.2m	3 25 - 60%	Carex sp= Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1305

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1305
Community Age	Mid-Age	
Ecosite	Shrub bog	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog	
Vegetation Type Code	BOS1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1002

Location	Latitude:45.843736,Longitude:-80.615956,Altitude:193.7,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:06/15/2015 01:21:43 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	30.00		Om
Horizon 3	35.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M9	Field Crew	CASEY & NATALIYA	1311

Feature ID	ELC-S-M9(563)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	2		
Start Date	6/15/2015 1:51:21 PM	Precipitation	0		
End Date	6/15/2015 2:19:03 PM	Cloud Cover	75.00		

Polygon Description 1308

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Fen

Stand Species 1308

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Carex utriculata > Sarracenia purpurea = Iris versicolor
Floating & Submerged		1 0% - 10%	Utriculata intermedia

Stand Composition 1308

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1308
Community Age	Mid-Age	
Ecosite	Open fen	
Ecosite Code	FEO1	
Vegetation Type	Beaked sedge open fen	
Vegetation Type Code	FEO1-5	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1005
Pit ID	1	

Location	Latitude:45.84286,Longitude:-80.617555,Altitude:200.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/15/2015 02:05:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	50.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Om

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M51	Field Crew	KASEY & JASON	1314

Feature ID	ELC-N-M51(486)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	0		
Start Date	6/15/2015 10:01:21 AM	Precipitation	0		
End Date	6/15/2015 10:28:20 AM	Cloud Cover	100.00		

Polygon Description 1314

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1314

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Junicom > Corycor > rosaaci
Groundcover	7 <0.2m	4 > 60%	Cladina sp > polyjun > vaccang > grass spp
Floating & Submerged		0 None	

Stand Composition 1314

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1314

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1071

Notes		Location	Latitude:45.864117,Longitude:-80.635434,Altitude:201.4,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/15/2015 10:17:56 EDT
Dead	3.00		



Species	Tally	ID
NA		1998

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M40	Field Crew	KASEY & JASON	1317

Feature ID	ELC-S-M40(721)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/15/2015 12:19:32 PM	Precipitation	0		
End Date	6/15/2015 12:47:46 PM	Cloud Cover	90.00		

Polygon Description 1317

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1317

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Junicom > vaccang > Corycor
Groundcover	7 <0.2m	4 > 60%	Cladina sp > moss sp > grass sp > maiacan
Floating & Submerged		0 None	

Stand Composition 1317

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1317

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1074

Notes		Location	Latitude:45.818242,Longitude:-80.656017,Altitude:176.7,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/15/2015 12:48:40 EDT
Dead	1.00		



Species	Tally	ID
Pinuban	2.00	2001

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M40	Field Crew	KASEY & JASON	1320

Feature ID	ELC-S-M40(183)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	6/15/2015 12:50:44 PM	Precipitation	0		
End Date	6/15/2015 1:26:21 PM	Cloud Cover	90.00		

Polygon Description 1320

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1320

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Popugra = poputre > betupap
Sub Canopy	2 >6-25m	4 > 60%	Acerrub
Shrub	5 >0.5-1m	4 > 60%	Pteraqu > Corycor > popugra > acerrub
Groundcover	7 <0.2m	4 > 60%	Astemac > Aralnud > maiacan > rubupub
Floating & Submerged		0 None	

Stand Composition 1320

	<10	10-24	25-50	>50
Size Class Analysis	A	A	A	R
Standing Snags	O	O	R	N
Deadfall / Logs	R	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1320

Community Age	Mature
Ecosite	Dry - fresh poplar white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry - fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1077

Notes		Location	Latitude:45.818062,Longitude:-80.655885,Altitude:180.2,Speed:0.15947777,Accuracy:1.5,Provider:gps,Time:06/15/2015 01:10:49 EDT
Dead	3.00		



Species	Tally	ID
Poputre	3.00	2004
Popugra	2.00	2007
Pinuban	2.00	2010

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1011
Location	Latitude:45.818092,Longitude:-80.655899,Altitude:180.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/15/2015 01:04:04 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	173.00	Gley	
Slope Percent	7.00	Water Table	
Slope Length (m)	15.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00		Of
Horizon 2	40.00	12.00	SifS
Horizon 3		0.00	
Horizon 4			

% Surface Stone	11.00
Moisture Regime	1
Drainage	0
Effective Texture	SifS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M40	Field Crew	KASEY & JASON	1323

Feature ID	ELC-S-M40(354)	Congruent Features	M40(355)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/15/2015 1:39:37 PM	Precipitation	0		
End Date	6/15/2015 1:55:29 PM	Cloud Cover	70.00		

Polygon Description 1323

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Fen

Stand Species 1323

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Carex sp > chamcal
Groundcover	7 <0.2m	4 > 60%	Sphagnum
Floating & Submerged		0 None	

Stand Composition 1323

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1323
Community Age	Mid-Age	
Ecosite	Shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-Forb Shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1014

Location	Latitude:45.818824,Longitude:-80.653274,Altitude:181.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:06/15/2015 01:41:32 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	71.00	Gley	
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00		Peat
Horizon 2			
Horizon 3		0.00	
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Peat

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M40	Field Crew	KASEY & JASON	1326

Feature ID	ELC-S-M40(42)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/15/2015 2:13:17 PM	Precipitation	0		
End Date	6/15/2015 2:35:59 PM	Cloud Cover	50.00		

Polygon Description 1326

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD,Graminoid
Community	Pond

Stand Species 1326

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	3 25 - 60%	Carex sp
Groundcover		0 None	
Floating & Submerged		3 25 - 60%	Brassch = reed? > nympodo

Stand Composition 1326

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1326
Community Age	Mid-Age
Ecosite	Open aquatic
Ecosite Code	OAO
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M17	Field Crew	OLGA & CASEY	1329

Feature ID	ELC-S-M17(236)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	0		
Start Date	6/9/2015 10:12:40 AM	Precipitation	0		
End Date	6/9/2015 10:36:56 AM	Cloud Cover	65.00		

Polygon Description 1329

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 1329

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	2 10 - 25%	Alnus incana > Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Carex sp. > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1329

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1329
Community Age	Young	
Ecosite	Mixed open fen	
Ecosite Code	FEO1	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1017
Pit ID	1	

Location	Latitude:45.829272,Longitude:-80.6323,Altitude:196.3,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/09/2015 10:23:56 EDT	Notes		
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	0.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	0.00	Carbonates		
		Bedrock	50.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Fen dominated by lake bank sedge



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M17	Field Crew	OLGA & CASEY	1332

Feature ID	ELC-S-M17(21)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/9/2015 11:25:46 AM	Precipitation	0		
End Date	6/9/2015 11:49:20 AM	Cloud Cover	30.00		

Polygon Description 1332

System	Wetland
Site	Bedrock
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Fen

Stand Species 1332

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus banksiana >Larix laricina > Pinus strobus > Betula papyrifera
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Kalmia angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1332

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina = Pinus banksiana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1332
Community Age	Young	
Ecosite	Shrub fen	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-forb shrub fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1020

Location	Latitude:45.83032,Longitude:-80.626674,Altitude:194.6,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/09/2015 11:45:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M20	Field Crew	OLGA & CASEY	1335

Feature ID	ELC-S-M20(531)	Congruent Features	M20(525)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/9/2015 12:42:15 PM	Precipitation	0		
End Date	6/9/2015 1:20:32 PM	Cloud Cover	60.00		

Polygon Description 1335

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1335

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Vaccinium angustifolium > Juniperus communis
Groundcover	7 <0.2m	3 25 - 60%	Lichen sp.
Floating & Submerged		0 None	

Stand Composition 1335

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1335
Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2; SWT2-1
Inclusion	Open fen; Alder mineral thicket swamp;
Inclusion Code	FEO1; SWT2-1
Complex	Leatherleaf shrub fen
Complex Code	FES1-4

Additional Notes

Inclusion dominated by lakebank sedge in narrow depression.



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M20	Field Crew	OLGA & CASEY	1338

Feature ID	ELC-S-M20(595)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	6/9/2015 1:36:38 PM	Precipitation	0		
End Date	6/9/2015 2:15:18 PM	Cloud Cover	70.00		

Polygon Description 1338

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 1338

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Betula papyrifera > Fraxinus nigra
Sub Canopy	3 >2-6m	1 0% - 10%	Fraxinus nigra > Betula papyrifera
Shrub	4 >1-2m	4 > 60%	Alnus incana = Ilex sp.
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex sp.
Floating & Submerged		0 None	

Stand Composition 1338

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Alnus incana > Fraxinus nigra
Species Dominance 10-24	Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1338

Community Age	Mid-Age
Ecosite	Mineral Thicket Swamp Ecosite
Ecosite Code	SWT2
Vegetation Type	Alder mineral thicket swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1080

Notes		Location	Latitude:45.826801,Longitude:-80.628728,Altitude:188.0,Speed:0.15947777,Accuracy:1.8,Provider:gps,Time:06/09/2015 02:08:39 EDT
Dead			



Species	Tally	ID
Betula papyrifera	3.00	2013
Fraxinus nigra	2.00	2016

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1023
Location	Latitude:45.826787,Longitude:-80.628716,Altitude:183.5,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:06/09/2015 01:48:38 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	15.00
Slope Aspect (deg)	0.00	Gley	25.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	57.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	15.00		SivfS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Very poor
Effective Texture	SivfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M20	Field Crew	OLGA & CASEY	1341

Feature ID	ELC-S-M20(531a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	6/9/2015 2:18:23 PM	Precipitation	0		
End Date	6/9/2015 2:40:27 PM	Cloud Cover	70.00		

Polygon Description 1341

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Swamp

Stand Species 1341

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Fraxinus nigra > Populus tremuloides > Acer rubrum
Sub Canopy	3 >2-6m	4 > 60%	Fraxinus nigra > Acer rubrum > Picea mariana
Shrub	5 >0.5-1m	3 25 - 60%	Viburnum cassinoides =Acer rubrum > Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex sp. > aster sp. > Acer rubrum
Floating & Submerged		0 None	

Stand Composition 1341

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Fraxinus nigra
Species Dominance 25-50	Fraxinus nigra
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1341
Community Age	Mid-Age	
Ecosite	Ash mineral Deciduous swamp	
Ecosite Code	SWD2	
Vegetation Type	Black ash mineral deciduous swamp	
Vegetation Type Code	SWD2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1026
Pit ID	1	

Location	Latitude:45.826175,Longitude:-80.629266,Altitude:187.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/09/2015 02:32:15 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	20.00
Slope Aspect (deg)	0.00	Gley	40.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	57.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	10.00		SiVfS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Poor
Effective Texture	SiVfS

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M20	Field Crew	OLGA & CASEY	1344

Feature ID	ELC-S-M17(531b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	6/9/2015 3:10:14 PM	Precipitation	0		
End Date	6/9/2015 3:37:03 PM	Cloud Cover	60.00		

Polygon Description 1344

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Coniferous
Community	Bog

Stand Species 1344

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larix laricina > Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina > Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Chamaedaphne calyculata > Larix laricina > Ledum groenlandica
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1344

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Pinus banksiana > Larix laricina
Species Dominance 25-50	Larix laricina
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1344
Community Age	Mid-Age	
Ecosite	Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen Type	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1029

Location	Latitude:45.824011,Longitude:-80.623345,Altitude:196.6,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:06/09/2015 03:34:16 EDT		Notes	
			Depth to: (cm)	
Slope Position	6 Level		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	0.00		Carbonates	
			Bedrock	55.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Poor
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M17	Field Crew	OLGA & CASEY	1347

Feature ID	ELC-S-M17(358)	Congruent Features	M17(359)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	6/9/2015 4:06:01 PM	Precipitation	0		
End Date	6/9/2015 4:26:09 PM	Cloud Cover	50.00		

Polygon Description 1347

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Fen

Stand Species 1347

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Myrica gale >Chamaedaphne calyculata > Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex aquatilis > Carex echinita = Grass sp.
Floating & Submerged		1 0% - 10%	Brasenia schreberi = Nuphar sp.

Stand Composition 1347

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1347
Community Age	Mid-Age	
Ecosite	Open fen	
Ecosite Code	FEO1	
Vegetation Type		
Vegetation Type Code		
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1032
Pit ID	1	

Location	Latitude:45.830303,Longitude:-80.625383,Altitude:195.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/09/2015 04:21:02 EDT		Notes	
			Depth to: (cm)	
Slope Position	6 Level		Mottles	
Slope Aspect (deg)	0.00		Gley	
Slope Percent	0.00		Water Table	0.00
Slope Length (m)	0.00		Carbonates	
			Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Open fen existence FEO1 is the closest available old ELC code to this community but new elc Water Sedge Open Fen (FEOG1-5) is more suitable.



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	OLGA & CASEY	1350

Feature ID	ELC-S-M28(395)	Congruent Features	M28(396)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/10/2015 11:13:22 AM	Precipitation	1		
End Date	6/10/2015 11:56:37 AM	Cloud Cover	100.00		

Polygon Description 1350

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1350

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana >Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus > Acer rubrum
Shrub	6 >0.2-0.5m	3 25 - 60%	Comptonia peregrina = bracken fern > Prunus pumilla
Groundcover	6 >0.2-0.5m	4 > 60%	Lichen sp. >Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1350

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Pinus banksiana > Pinus strobus
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1350
Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Leatherleaf shrub bog
Inclusion Code	BOS1-1
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	OLGA & CASEY	1353

Feature ID	ELC-S-M28(395a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/10/2015 11:58:40 AM	Precipitation	1		
End Date	6/10/2015 12:50:50 PM	Cloud Cover	100.00		

Polygon Description 1353

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1353

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Betula papyrifera = Larix laricina
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Illex mucronatus> Ilex verticillata > Viburnum cassinoides > Pteridium aquilinum > Kalmia angustifolia
Groundcover	6 >0.2-0.5m	4 > 60%	Vaccinium angustifolium > Sphagnum sp. > Cornus canadensis > Gaultheria procumbens > Rubus flagellaris
Floating & Submerged		0 None	

Stand Composition 1353

	<10	10-24	25-50	>50
Size Class Analysis	A	A	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Pinus banksiana > Betula papyrifera >
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1353
Community Age	Mid-Age
Ecosite	Maple mineral swamp
Ecosite Code	SWM2
Vegetation Type	Red maple-conifer mineral mixed swamp
Vegetation Type Code	SWM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1083

Notes	Transition area between rock barren and fen on loamy medium sand soil	Location	
Dead		Latitude:45.840761,Longitude:-80.601304,Altitude:196.5,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/10/2015 12:29:24 EDT	

Species	Tally	ID
Pinus banksiana	3.00	2019
Picea mariana	1.00	2022

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1035
Location	Latitude:45.840771,Longitude:-80.601314,Altitude:191.3,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:06/10/2015 12:18:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	25.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	30.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00		LmS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Imperfect
Effective Texture	LmS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	OLGA & CASEY	1356

Feature ID	ELC-S-M28(202)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/10/2015 1:07:11 PM	Precipitation	0		
End Date	6/10/2015 1:28:46 PM	Cloud Cover	100.00		

Polygon Description 1356

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 1356

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina
Shrub	5 >0.5-1m	4 > 60%	Chamaedaphne calyculata > Ilex mucronatum > Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1356

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1356
Community Age	Mature	
Ecosite	Treed fen	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1038

Location	Latitude:45.839746,Longitude:-80.600712,Altitude:205.2,Speed:0.45785555,Accuracy:1.8,Provider:gps,Time:06/10/2015 01:18:50 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	47.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	43.00	0.00	Fs
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very Poor
Effective Texture	Fs

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	OLGA & CASEY	1359

Feature ID	ELC-S-M28(395b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/10/2015 1:40:27 PM	Precipitation	0		
End Date	6/10/2015 2:13:58 PM	Cloud Cover	100.00		

Polygon Description 1359

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Bog

Stand Species 1359

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	1 0% - 10%	Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex oligosperma
Floating & Submerged		0 None	

Stand Composition 1359

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1359
Community Age	Young	
Ecosite	Open bog	
Ecosite Code	BOO	
Vegetation Type	Few-seeded sedge open bog	
Vegetation Type Code	BOO1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1041

Location	Latitude:45.840609,Longitude:-80.600595,Altitude:202.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/10/2015 01:49:15 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	105.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	30.00		SimS
Horizon 3	70.00		Silty clay loam
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Shirt clay loam

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	OLGA&CASEY	1362

Feature ID	ELC-S-M28(496)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	4		
Start Date	6/10/2015 2:43:18 PM	Precipitation	0		
End Date	6/10/2015 3:18:31 PM	Cloud Cover	100.00		

Polygon Description 1362

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Swamp

Stand Species 1362

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Acer rubrum = Larix laricina > Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum = Larix laricina> Betula papyrifera > Alnus incana
Shrub	5 >0.5-1m	3 25 - 60%	Ilex verticillata > Alnus incana > Viburnum cassinoides
Groundcover	7 <0.2m	3 25 - 60%	Sphagnum > Osmunda regalis > Vaccinium angustifolium > Rubus sp.
Floating & Submerged		0 None	

Stand Composition 1362

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Larix laricina = Acer rubrum
Species Dominance 10-24	Acer rubrum > Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1362

Community Age	Mid-Age
Ecosite	Maple Mineral mixed swamp
Ecosite Code	SWM2
Vegetation Type	Red Maple - Conifer mineral mixed swamp
Vegetation Type Code	SWM2-1
Inclusion	Tamarack-leatherleaf treed kettle bog
Inclusion Code	BOT2
Complex	
Complex Code	

Tree Tally	1086

Notes		Location	
		Latitude:45.839905,Longitude:-80.599463,Altitude:198.1,Speed:0.09774444,Accuracy:3.0,Provider:gps,Time:06/10/2015 03:17:37 EDT	
Dead			

Species	Tally	ID
Larix laricina	4.00	2025

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1044
Location	Latitude:45.840207,Longitude:-80.599034,Altitude:211.9,Speed:0.2778,Accuracy:2.7,Provider:gps,Time:06/10/2015 02:56:38 EDT	Notes	Soils are not indicative of the wet/ moist conditions observd at surface andvthe wetland indicator plants. Soil pit was composed of entirely of medium sand past the organics. Didn't hit bedrock but couldn't go down any further suspect that bedrock was ju
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	10.00	6.00	mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Not indicative by soils but its moist
Drainage	Very rapid
Effective Texture	mS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	JOHANNA PERZ	1365

Feature ID	ELC-S-M28(497)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	6/11/2015 9:30:02 AM	Precipitation	0		
End Date	6/11/2015 11:51:34 AM	Cloud Cover	0.00		

Polygon Description 1365

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Forb,Mixed
Community	Forest

Stand Species 1365

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum> Pinus strobus >> Populus tremuloides > Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Pinus strobus >> Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta > Acer rubrum > Pinus strobus > Viburnum cassinoides >> Alnus incana
Groundcover	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum >> Cornus canadensis = Maianthemum canadense > Kalmia angustifolia
Floating & Submerged		0 None	

Stand Composition 1365

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	N	R	R	N
Deadfall / Logs	N	R	R	N

Species Dominance <10	Acer rubrum > Pinus strobus
Species Dominance 10-24	Acer rubrum > Pinus strobus > Betula papyrifera
Species Dominance 25-50	Pinus strobus > Pinus resinosa > Acer rubrum
Species Dominance >50	Pinus strobus > Pinus resinosa

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1365

Community Age	Mature
Ecosite	Dry-Fresh Upland Deciduous Forest
Ecosite Code	FOD4
Vegetation Type	Dry-fresh white pine-sugar maple mixed forest
Vegetation Type Code	FOM2-2
Inclusion	Red maple-conifer mineral mixed swamp
Inclusion Code	SWM2-1
Complex	
Complex Code	

Tree Tally	1089

Notes		Location	
		Latitude:45.838982,Longitude:-80.59554,Altitude:211.9,Speed:0.07716667,Accuracy:3.3,Provider:gps,Time:06/11/2015 11:52:32 EDT	
Dead	0.00		

Species	Tally	ID
Acer rubrum	3.00	2028
Pinus resinosa	2.00	2031
Pinus strobus	2.00	2034
Betula papyrifera	1.00	2037

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1047
Location	Latitude:45.838872,Longitude:-80.595387,Altitude:0.0,Speed:0.041155554,Accuracy:100.0,Provider:gps,Time:06/11/2015 11:49:20 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	70.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	25.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	3.00	0.00	mS
Horizon 3	30.00	0.00	cS
Horizon 4	60.00	2.00	LfS

% Surface Stone	0.00
Moisture Regime	Very fresh
Drainage	Imperfect
Effective Texture	LfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M28	Field Crew	JOHANNA PERZ, OLGA HROPACH	1368

Feature ID	ELC-S-M28(203)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	6/11/2015 9:53:41 AM	Precipitation	0		
End Date	6/11/2015 10:34:15 AM	Cloud Cover	5.00		

Polygon Description 1368

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb
Community	Thicket

Stand Species 1368

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	3 >2-6m	4 > 60%	Alnus incana > Ilex verticillata > Nemopanthus mucronatus
Groundcover	5 >0.5-1m		Sphagnum sp. > Carex lacustris >> Viburnum cassinoides > Spiraea alba > Rubus pubescens
Floating & Submerged		0 None	

Stand Composition 1368

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Alnus incana > Ilex verticillata
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1368
Community Age	Mid-Age	
Ecosite	Organic thicket swamp	
Ecosite Code	SWT3	
Vegetation Type	Alder organic thicket swamp	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1050

Location	Latitude:45.839046,Longitude:-80.598074,Altitude:201.1,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:06/11/2015 10:15:52 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	40.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	40.00	0.00	fS
Horizon 3	70.00	0.00	SiCL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ, OLGA HROPACH	1371

Feature ID	ELC-S-M27(420)	Congruent Features	M27(167), M27(168)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3	Wispy clouds	
Start Date	6/11/2015 12:41:32 PM	Precipitation	0		
End Date	6/12/2015 2:05:06 PM	Cloud Cover	10.00		

Polygon Description 1371

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Deciduous,Coniferous
Community	Barren

Stand Species 1371

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus > Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Comptonia peregrina > Kalmia angustifolia > Pteridium aquilinum > Pinus banksiana > Acer rubrum
Groundcover	6 >0.2-0.5m	4 > 60%	Vaccinium angustifolium >> Gaultheria procumbens
Floating & Submerged		0 None	

Stand Composition 1371

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus strobus > Acer rubrum > Pinus banksiana
Species Dominance 10-24	Pinus banksiana >> Pinus strobus > Acer rubrum
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1371
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Tamarack treed fen, alder organic thicket swamp
Inclusion Code	FET1-1, SWT3-1
Complex	
Complex Code	

Additional Notes

M27(422) in south west corner of turbine removed, boundary changed



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ, OLGA HROPACH	1374

Feature ID	ELC-S-M27(420a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	2		
Start Date	6/11/2015 1:24:56 PM	Precipitation	0		
End Date	6/11/2015 1:47:18 PM	Cloud Cover	10.00		

Polygon Description 1374

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Coniferous
Community	Marsh

Stand Species 1374

	Height	Cover	Species Dominance
Canopy			
Sub Canopy			
Shrub	4 >1-2m	1 0% - 10%	Larix laricina > Chamaedaphne calyculata
Groundcover	5 >0.5-1m	1 0% - 10%	Sphagnum spp. > Carex lacustris > Carex achinada
Floating & Submerged		0 None	

Stand Composition 1374

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1374
Community Age	Mid-Age	
Ecosite	Mineral shallow marsh	
Ecosite Code	MAS2	
Vegetation Type	Broad-leaved sedge mineral shallow marsh	
Vegetation Type Code	MAS2-4	
Inclusion	Jack pine acidic treed rock barren	
Inclusion Code	RBT3-2	
Complex		
Complex Code		

Soil Description		1053
Pit ID	1	

Location	Latitude:45.835629,Longitude:-80.591294,Altitude:202.7,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/11/2015 01:38:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	1.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	10.00	10.00	mS
Horizon 3	30.00	0.00	SiC
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	SiC

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	OLHA HROPACH, JOHANNA PERZ	1377

Feature ID	ELC-S-M27(423)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/11/2015 2:23:13 PM	Precipitation	0		
End Date	6/11/2015 2:58:44 PM	Cloud Cover	60.00		

Polygon Description 1377

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Forb,Lichen,Mixed
Community	Forest

Stand Species 1377

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera>Acer rubrum>Picea mariana>>Pinus banksiana>Pinus strobus
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum>Betula papyrifera>Pinus strobus
Shrub	4 >1-2m	2 10 - 25%	Pteridium aquilinum >> Viburnum cassinoides > Kalmia angustifolia > Acer rubrum
Groundcover	5 >0.5-1m		Pteridium aquilinum >> Cornus canadensis > Aralia nudicaulis > Mainanthemum candense
Floating & Submerged		0 None	

Stand Composition 1377

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	R	O	R	N

Species Dominance <10	Acer rubrum > Betula papyrifera > Pinus strobus
Species Dominance 10-24	Betula papyrifera > Acer rubrum > Picea mariana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1377

Community Age	Mature
Ecosite	Fresh-moist poplar-white birch mixed forest
Ecosite Code	FOM8
Vegetation Type	Fresh-moist white birch mixed forest
Vegetation Type Code	FOM8-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1092

Notes		Location	
		Latitude:45.83421,Longitude:-80.593399,Altitude:213.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:	
Dead	2.00		

Species	Tally	ID
Pinus strobus	1.00	2040
Pinus banksiana	3.00	2043
Betula papyrifera	4.00	2046
Picea mariana	4.00	2049
Acer rubrum	1.00	2052

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1056
Location	Latitude:45.834185,Longitude:-80.593285,Altitude:207.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/11/2015 02:47:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	50.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	1.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	O
Horizon 2	10.00	10.00	fS
Horizon 3	45.00	10.00	vfS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Moderately moist
Drainage	Imperfect
Effective Texture	vfS

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ, OLGA HROPACH	1380

Feature ID	ELC-S-M27(169)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/11/2015 3:16:52 PM	Precipitation	0		
End Date	6/11/2015 3:42:28 PM	Cloud Cover	75.00		

Polygon Description 1380

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1380

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Acer rubrum
Sub Canopy	3 >2-6m	4 > 60%	Alnus incana
Shrub	3 >2-6m	4 > 60%	Alnus incana
Groundcover	4 >1-2m	3 25 - 60%	Carex lacustris > Onoclea sensibilis
Floating & Submerged		0 None	

Stand Composition 1380

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Acer rubrum
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1380
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1059

Location	Latitude:45.833179,Longitude:-80.595925,Altitude:209.3,Speed:0.15947777,Accuracy:2.1,Provider:gps,Time:06/11/2015 03:29:40 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	25.00
Slope Aspect (deg)	0.00	Gley	50.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	20.00	29.00	L
Horizon 3	40.00	19.00	VcS
Horizon 4	50.00		C

% Surface Stone	0.00
Moisture Regime	Very moist
Drainage	Poor
Effective Texture	C

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ, OLGA HROPACH	1383

Feature ID	ELC-S-M27(170)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	3		
Start Date	6/11/2015 3:56:02 PM	Precipitation	0		
End Date	6/11/2015 4:33:07 PM	Cloud Cover	0.00		

Polygon Description 1383

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1383

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum > Betula papyrifera > Populus tremuloides
Sub Canopy	3 >2-6m	4 > 60%	Acer rubrum > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Pteridium aquilinum > Corylus cornuta >> Acer rubrum > Pinus strobus
Groundcover	6 >0.2-0.5m		Aralia nudicaulis > Gaultheria procumbens = Mainanthemum canadense = Aster macrophyllus
Floating & Submerged		0 None	

Stand Composition 1383

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum > Pinus strobus
Species Dominance 10-24	Acer rubrum > Populus tremuloides>Betula payrifera
Species Dominance 25-50	Populus tremuloides>Acer rubrum
Species Dominance >50	Pinus resinosa=pinus strobus

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1383
Community Age	Mature	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type	Fresh-moist sugar maple-hardwood deciduous forest	
Vegetation Type Code	FOD6-5	
Inclusion	Alder mineral thicket swamp	
Inclusion Code	SWT2-1	
Complex		
Complex Code		

Tree Tally 1095

Notes

Location

Latitude:45.833331,Longitude:-80.5964,Altitude:206.9,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:06/11/2015 04:13:22 EDT



Dead 2.00

Species	Tally	ID
Populus tremuloides	4.00	2055
Acer rubrum	5.00	2058
Pinus resinosa	1.00	2061

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1062
Location	Latitude:45.833288,Longitude:-80.596439,Altitude:208.3,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/11/2015 04:24:13 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	50.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	60.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	120.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1		0.00	
Horizon 2	0.00		Om
Horizon 3	15.00	6.00	LS
Horizon 4	45.00	5.00	SiCL

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Imperfect
Effective Texture	SiCL

Additional Notes

Dominated by red maple not sugar maple; drier conditions



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ OLGQ HROPACH	1386

Feature ID	ELC-S-M27(389)	Congruent Features	M27(390)		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	6/12/2015 9:18:12 AM	Precipitation	2		
End Date	6/12/2015 9:41:50 AM	Cloud Cover	100.00		

Polygon Description 1386

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Forb,Bryophyte,Deciduous,Coniferous
Community	Swamp

Stand Species 1386

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Larix larcinia
Sub Canopy	3 >2-6m	3 25 - 60%	Larix larcinia >> Acer rubrum > Betula papyrifera
Shrub	4 >1-2m	2 10 - 25%	Kalmia angustifolia > Nemopanthus mucronatus > Viburnum cassinoides
Groundcover	5 >0.5-1m		Sphagnum spp. > Chamaedaphne calyculata > Ledum groenlandicum >> Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1386

	<10	10-24	25-50	>50
Size Class Analysis	A	A	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Larix larcinia > Acer rubrum > Betula papyrifera
Species Dominance 10-24	Pinus banksiana > Larix larcinia
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1386

Community Age	Mature
Ecosite	Treed Fen Ecosite
Ecosite Code	FET1
Vegetation Type	Tamarack Treed Fen Type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	Jack pine acidic treed rock barren
Complex Code	RBT3-2

Tree Tally	1098

Notes		Location	
		Latitude:45.83349,Longitude:-80.597455,Altitude:208.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/12/2015 09:28:33 EDT	
Dead	1.00		

Species	Tally	ID
Pinus banksiana	4.00	2064
Larix larcinia	1.00	2067

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1065
Location	Latitude:45.833509,Longitude:-80.597437,Altitude:207.5,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:06/12/2015 09:34:03 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	100.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	Wet
Drainage	Very poor
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	JOHANNA PERZ OLGA HROPACH	1389

Feature ID	ELC-S-M27(697)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	0		
Start Date	6/12/2015 10:01:39 AM	Precipitation	2		
End Date	6/12/2015 10:20:35 AM	Cloud Cover	100.00		

Polygon Description 1389

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous,Mixed
Community	Barren

Stand Species 1389

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Betula papyrifera >Acer rubrum
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus banksiana > Acer rubrum > Betula papyrifera
Shrub	5 >0.5-1m	2 10 - 25%	Pteridium aquilinum > Vaccinum angustofolium > Comptonia peregrina > Acer rubrum
Groundcover	5 >0.5-1m	3 25 - 60%	Cladina spp. > grass spp. > Mainanthemum canadense = Cornus canadensis
Floating & Submerged		0 None	

Stand Composition 1389

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Pinus banksiana > Betula papyrifera > Acer rubrum
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1389
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Dry-fresh sugar maple-white birch-poplar deciduous
Inclusion Code	FOD5-10
Complex	
Complex Code	

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M27	Field Crew	OLGA HROPACH, JOHANNA PERZ	1392

Feature ID	ELC-S-M27(697a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	0		
Start Date	6/12/2015 10:29:08 AM	Precipitation	0		
End Date	6/12/2015 10:51:24 AM	Cloud Cover	100.00		

Polygon Description 1392

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Graminoid,Forb,Deciduous
Community	Forest

Stand Species 1392

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum>Betula papyrifera
Sub Canopy	3 >2-6m	4 > 60%	Acer rubrum>Betula papyrifera
Shrub	5 >0.5-1m		Pteridium aquilinum > Viburnum cassinoides > Acer rubrum
Groundcover	6 >0.2-0.5m		Cornus canadensis > Mainanthemum candense
Floating & Submerged		0 None	

Stand Composition 1392

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Acer rubrum > Betula papyrifera
Species Dominance 25-50	Acer rubrum > Betula papyrifera
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1392
Community Age	Mature	
Ecosite	Dry-Fresh Upland Deciduous Forest	
Ecosite Code	FOD4	
Vegetation Type	Fresh-moist sugar maple-hardwood deciduous forest	
Vegetation Type Code	FOD6-5	
Inclusion	Alder mineral thicket swamp	
Inclusion Code	SWT2-1	
Complex		
Complex Code		

Tree Tally 1101

Notes		Location	
		Latitude:45.832943,Longitude:-80.597402,Altitude:209.6,Speed:0.18005556,Accuracy:1.5,Provider:gps,Time:06/12/2015 10:35:50 EDT	
Dead	1.00		

Species	Tally	ID
Acer rubrum	3.00	2070
Betula papyrifera	3.00	2073

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1068
Location	Latitude:45.832919,Longitude:-80.597455,Altitude:208.3,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/12/2015 10:39:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	40.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	20.00	5.00	LmS
Horizon 3	40.00	0.00	SiCL
Horizon 4		5.00	

% Surface Stone	0.00
Moisture Regime	Moist
Drainage	Imperfect
Effective Texture	SiCL

Additional Notes

Red maple, not sugar maple



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M48	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1395

Feature ID	ELC-S-M48(646)	Congruent Features	M48(645), M48(644), M48(727), M48(479), M48(650)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	0		
Start Date	6/15/2015 9:47:05 AM	Precipitation	0		
End Date	6/15/2015 9:58:59 AM	Cloud Cover	100.00		

Polygon Description 1395

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1395

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Pinus strobus > Acer rubrum
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus > Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	juniperus communis > Vaccinium angustifolium >vaccinium myrtilloides
Groundcover	7 <0.2m	4 > 60%	Cladina spp> polytrichum spp. > Cladonia spp,
Floating & Submerged		0 None	

Stand Composition 1395

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Pinus strobus > Acer rubrum
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1395
Community Age	Mid-Age
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	Black spruce - tamarack organic coniferous swanp
Complex Code	SWC4-1

Tree Tally	1104

Notes		Location	Latitude:45.834813,Longitude:-80.705165,Altitude:183.4,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:06/15/2015 09:58:19 EDT
Dead			



Species	Tally	ID
Pinus banksiana	2.00	2076

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M48	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1398

Feature ID	ELC-S-M48(376)	Congruent Features	M48(378), M48(647)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	0		
Start Date	6/15/2015 10:56:51 AM	Precipitation	0		
End Date	6/15/2015 11:15:39 PM	Cloud Cover	100.00		

Polygon Description 1398

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Forest

Stand Species 1398

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus> Pinus banksiana > Oopukus tremuloides
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus strobus > Pinus banksiana > Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Vaccinium myrtilloides > vaccinium angustifolium > juniperus communis
Groundcover	5 >0.5-1m	4 > 60%	Cladina spp> pteridium aquilinum > mainthenum canadense
Floating & Submerged		0 None	

Stand Composition 1398

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus strobus > Pinus banksiana > Acer rubrum
Species Dominance 10-24	Pinus strobus > Pinus banksiana
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1398

Community Age	
Ecosite	Dry -fresh pine coniferous forest
Ecosite Code	FOC1
Vegetation Type	Dry -Fresh White pine - red pine coniferous forest
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1107

Notes		Location	Latitude:45.831219,Longitude:-80.700737,Altitude:185.8,Speed:0.16462222,Accuracy:2.4,Provider:gps,Time:06/15/2015 11:21:53 EDT
Dead	1.00		



Species	Tally	ID
Pinus strobus	7.00	2079

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1071
Location	Latitude:45.831129,Longitude:-80.700779,Altitude:184.4,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/15/2015 11:08:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	94.00	Gley	
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	35.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	Humic
Horizon 2	35.00	0.00	Silty loam
Horizon 3			
Horizon 4			

% Surface Stone	49.00
Moisture Regime	2
Drainage	9/R
Effective Texture	SiL

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M48	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1401

Feature ID	ELC-S-M48(441)	Congruent Features	M48(10), M48(13)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	2		
Start Date	6/15/2015 12:21:45 PM	Precipitation	0		
End Date	6/15/2015 1:11:25 PM	Cloud Cover	100.00		

Polygon Description 1401

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Fen

Stand Species 1401

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina > Pinus strobus
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calyculata > Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp.> woodwardia virginica > Osmunda regalis
Floating & Submerged		0 None	

Stand Composition 1401

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	O	O	N
Deadfall / Logs	O	O	O	N

Species Dominance <10	Larix laricina > Pinus strobus
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1401
Community Age	Mid-Age	
Ecosite	Shrub Fen Ecosite	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf Shrub Fen Type	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	1110

Notes

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Dead 1.00

Species	Tally	ID
None		2082

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1074
Location	Latitude:45.828254,Longitude:-80.698984,Altitude:184.8,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/15/2015 12:30:44 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

No vegetation classes fit

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M49	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1404

Feature ID	ELC-S-M49(366)	Congruent Features	M49(365),M49(363),M50(652)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	1		
Start Date	6/15/2015 1:38:23 PM	Precipitation	0		
End Date	6/15/2015 1:51:27 PM	Cloud Cover	100.00		

Polygon Description 1404

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1404

	Height	Cover	Species Dominance
Canopy	1 >25m	2 10 - 25%	Pinus strobus >Pinus banksiana > Picea glauca
Sub Canopy	2 >6-25m	2 10 - 25%	Pinus strobus > Pinus banksiana > Picea glauca > Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium > Vaccinium myrtilloides
Groundcover	7 <0.2m	4 > 60%	Cladina spp.> Polytrichum spp > Umbilicaria spp.
Floating & Submerged		0 None	

Stand Composition 1404

	<10	10-24	25-50	>50
Size Class Analysis	O	O	R	N
Standing Snags	O	R	R	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus strobus> Pinus banksiana > Picea glauca
Species Dominance 10-24	Pinus strobus > Pinus banksiana > Picea gla
Species Dominance 25-50	Pinus strobus > Pinus banksiana
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1404

Community Age	
Ecosite	Acidic Shrub Rock Barren
Ecosite Code	RBS3
Vegetation Type	Common Juniper Acidic Shrub Rock Barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	White Pine -Red pine coniferous forest
Complex Code	FOC1-2

Tree Tally 1113

Notes

Dead

Location

Latitude:45.829991,Longitude:-80.706884,Altitude:180.4,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/15/2015 01:48:29 EDT



Species	Tally	ID
Pinus strobus	1.00	2085

Additional Notes

Dominant white pine no vegetation class fits

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M49	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1407

Feature ID	ELC-S-M49(468)	Congruent Features	M49(648)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	0		
Start Date	6/15/2015 2:14:10 PM	Precipitation	0		
End Date	6/15/2015 2:47:53 PM	Cloud Cover	100.00		

Polygon Description 1407

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Forest

Stand Species 1407

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > Picea mariana > Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > Picea mariana > Pinus banksiana > Acer rubrum
Shrub	3 >2-6m	2 10 - 25%	Vaccinium angustifolium > nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp > Mainthenum canadense > Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1407

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	R
Deadfall / Logs	O	O	R	N

Species Dominance <10	Pinus strobus > Picea mariana >Pinus banksia
Species Dominance 10-24	Pinus strobus > Acer rubrum
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1407
Community Age	Mid-Age	
Ecosite	Dry -Fresh Pine Coniferous forest	
Ecosite Code	FOC1	
Vegetation Type	Dry - Fresh White Pine - Red Pine Coniferous fores	
Vegetation Type Code	FOC1-2	
Inclusion	TAMARACK - Black spruce Organic coniferous swamp	
Inclusion Code	SWC4-1	
Complex		
Complex Code		

Tree Tally 1116

Notes		Location	
		Latitude:45.829149,Longitude:-80.707807,Altitude:190.7,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/15/2015 02:34:27 EDT	
Dead	2.00		

Species	Tally	ID
Pinus strobus	4.00	2088
Picea mariana	1.00	2091

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1077
Location	Latitude:45.829364,Longitude:-80.707734,Altitude:187.2,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:06/15/2015 02:27:56 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	7.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	37.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	22.00	0.00	Oh
Horizon 2	37.00	42.00	SimS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	0/R
Effective Texture	SimS

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M50	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1410

Feature ID	ELC-S-M50(470)	Congruent Features	M50(663), M50(47)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	1		
Start Date	6/15/2015 2:54:55 PM	Precipitation	0		
End Date	6/15/2015 3:32:25 PM	Cloud Cover	90.00		

Polygon Description 1410

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 1419

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Picea glauca > Acer rubrum> Picea mariana
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubrum > Picea mariana
Shrub	4 >1-2m	3 25 - 60%	Vaccinium angustifolium > Vaccinium myrtilloides > Viburnum cassinoides
Groundcover	5 >0.5-1m	3 25 - 60%	Dryopteris carthusiana = Pteridium aquilinum > trientalis borealis
Floating & Submerged		0 None	

Stand Composition 1419

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum >Picea mariana > Quercus rubra
Species Dominance 10-24	Picea glauca > Acer rubrum
Species Dominance 25-50	Picea glauca > Acer rubrum
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification 1419

Community Age	
Ecosite	Dry - fresh white pine -maple- oak mixed forest
Ecosite Code	FOM2
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1119

Notes

Location

Latitude:45.826971,Longitude:-80.709343,Altitude:255.4,Speed:0.1389,Accuracy:2.7,Provider:gps,Time:06/15/2015 03:03:27 EDT

Dead

Species	Tally	ID
Picea mariana	1.00	2094
Acer rubrum	1.00	2097
Picea glauca	2.00	2100

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1089
Location	Latitude:45.826789,Longitude:-80.709447,Altitude:0.0,Speed:0.4835778,Accuracy:100.0,Provider:gps,Time:06/15/2015 03:03:16 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	83.00	Gley	
Slope Percent	1.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	30.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	16.00	0.00	Of
Horizon 2	30.00	13.00	SimS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	0/R
Effective Texture	SimS

Additional Notes

This forest was spruce and red maple dominant there is no option for this for either ecosite or vegetation class

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M50	Field Crew	KRISTAN WASHBURN AND AYESHA PRASED	1413

Feature ID	ELC-S-M50(348)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	1		
Start Date	6/15/2015 3:32:29 PM	Precipitation	0		
End Date	6/15/2015 3:43:57 PM	Cloud Cover	100.00		

Polygon Description 1413

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1410

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy			
Shrub	3 >2-6m	3 25 - 60%	Alnus incana
Groundcover	2 >6-25m	3 25 - 60%	CAREX SPP.> Onoclea sensibilis
Floating & Submerged		0 None	

Stand Composition 1410

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1410
Community Age		
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion	Open aquatic	
Inclusion Code	OAO	
Complex		
Complex Code		

Soil Description

Pit ID	2p1	1080

Location	Latitude:45.826689,Longitude:-80.709188,Altitude:199.2,Speed:0.020577777,Accuracy:2.7,Provider:gps,Time:06/15/2015 03:37:57 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	5.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	3.00	0.00	Of
Horizon 2	16.00		SifS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	SifS

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M50	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1416

Feature ID	ELC-S-M50(349)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	0		
Start Date	6/15/2015 3:57:17 PM	Precipitation	0		
End Date	6/15/2015 4:03:36 PM	Cloud Cover	100.00		

Polygon Description 1416

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 1413

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	1 0% - 10%	Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex spp.> sphagnum spp. cunquefoil
Floating & Submerged		0 None	

Stand Composition 1413

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1413
Community Age	Mid-Age	
Ecosite	Organic shallow marsh type	
Ecosite Code	MAS2	
Vegetation Type	Broad-leaved sedge organic shallow marsh	
Vegetation Type Code	MAS3-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1083
Pit ID	1	

Location	Latitude:45.825899,Longitude:-80.708454,Altitude:174.3,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/15/2015 04:00:13 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	67.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	67.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	1.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M50	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1419

Feature ID	ELC-S-M50(48)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM15	Wind Speed (beaufort)	1		
Start Date	6/15/2015 4:10:36 PM	Precipitation	0		
End Date	6/15/2015 4:45:52 PM	Cloud Cover	100.00		

Polygon Description 1419

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1416

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	3 25 - 60%	Nemopanthus mucronatus > alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum spp > Osmunda regalis >Carex spp.
Floating & Submerged		0 None	

Stand Composition 1416

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1416
Community Age		
Ecosite	Organic thicket swamp	
Ecosite Code	SWT3	
Vegetation Type	Mountain holly organic thicket swamp	
Vegetation Type Code	SWT3-8	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description				1086
Pit ID	1			
Location	Latitude:45.825056,Longitude:-80.707633,Altitude:172.2,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/15/2015 04:17:04 EDT	Notes		
		Depth to: (cm)		
Slope Position	6 Level	Mottles		
Slope Aspect (deg)	0.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock	65.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	65.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M52	Field Crew	ADAM, TOM	1473

Feature ID	ELC-N-M52(487)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/15/2015 10:38:25 AM	Precipitation	0		
End Date	6/15/2015 10:55:01 AM	Cloud Cover	100.00		

Polygon Description 1473

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Fen

Stand Species 1473

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata >> Alnus incana
Groundcover	5 >0.5-1m	4 > 60%	Carex utriculata > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1473

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1473
Community Age	Mid-Age	
Ecosite	Deciduous shrub fen	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf-forb shrub fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1128

Location	Latitude:45.865514,Longitude:-80.631522,Altitude:191.1,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:06/15/2015 10:55:13 EDT	Notes	Aspect 200Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2		100.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M52	Field Crew	ADAM, TOM	1476

Feature ID	ELC-N-M52(487a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/15/2015 10:59:44 AM	Precipitation	0		
End Date	6/15/2015 11:16:55 AM	Cloud Cover	100.00		

Polygon Description 1476

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1476

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Alnus incana
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata
Groundcover	5 >0.5-1m	4 > 60%	Carex sp. > Osmonda regalis
Floating & Submerged		0 None	

Stand Composition 1476

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1476
Community Age	Mid-Age	
Ecosite	Alder organic deciduous thicket swamp	
Ecosite Code	SWT3	
Vegetation Type	Speckled alder organic deciduous thicket swamp	
Vegetation Type Code	SWT3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1131

Location	Latitude:45.86585,Longitude:-80.631977,Altitude:191.3,Speed:0.0926,Accuracy:2.0,Provider:gps,Time:06/15/2015 11:15:49 EDT	Notes	Aspect 150
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	115.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	115.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M52	Field Crew	ADAM, TOM	1479

Feature ID	ELC-N-M52(490)	Congruent Features	M52(492), M52(489), M52(491)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/15/2015 11:41:12 AM	Precipitation	0		
End Date	6/15/2015 12:05:47 PM	Cloud Cover	100.00		

Polygon Description 1479

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1479

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Betula papyrifera
Shrub	6 >0.2-0.5m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina = stereocaulon tomentosum > Umbilicaria mammulata > Danthonia spicata
Floating & Submerged		0 None	

Stand Composition 1479

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification	1479

Community Age	Mature
Ecosite	Non-calcareous treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine non-calcareous treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1149

Notes		Location	Latitude:45.865851,Longitude:-80.6305,Altitude:195.1,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:06/15/2015 12:01:53 EDT
Dead			



Species	Tally	ID
Pinus banksiana	2.00	2184

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M52	Field Crew	ADAM, TOM	1482

Feature ID	ELC-N-M52(498)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/15/2015 12:18:02 PM	Precipitation	0		
End Date	6/15/2015 12:36:01 PM	Cloud Cover	100.00		

Polygon Description 1482

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Bog

Stand Species 1482

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp. > Carex utriculata > Vaccinium oxycoccos
Floating & Submerged		0 None	

Stand Composition 1482

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification

1482

Community Age	Mid-Age
Ecosite	Graminoid open bog ecosite
Ecosite Code	BOO1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1134

Location	Latitude:45.866296,Longitude:-80.629541,Altitude:192.5,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:06/15/2015 12:30:56 EDT	Notes	Aspect 160
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	90.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	90.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M52	Field Crew	ADAM, TOM	1485

Feature ID	ELC-N-M52(488)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/15/2015 1:02:29 PM	Precipitation	0		
End Date	6/15/2015 1:17:34 PM	Cloud Cover	100.00		

Polygon Description 1485

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Bog

Stand Species 1485

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Pinus strobus
Sub Canopy	5 >0.5-1m	1 0% - 10%	Acer rubrum > Pinus strobus
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata = Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp. > Maianthemum trifolium
Floating & Submerged		0 None	

Stand Composition 1485

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Pinus strobus = Acer rubrum
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1485
Community Age	Mid-Age	
Ecosite	Deciduous shrub bog	
Ecosite Code	BOS1	
Vegetation Type	Leatherleaf shrub bog	
Vegetation Type Code	BOS1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1137
Pit ID	1	

Location	Latitude:45.866823,Longitude:-80.627537,Altitude:194.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/15/2015 01:17:17 EDT	Notes	Aspect 170	
		Depth to: (cm)		
Slope Position	5 Depression	Mottles		
Slope Aspect (deg)	100.00	Gley		
Slope Percent	0.00	Water Table	0.00	
Slope Length (m)	10.00	Carbonates		
		Bedrock	85.00	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	75.00	0.00	Of
Horizon 2	85.00	100.00	Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	N-M6	Field Crew	ADAM, TOM	1488

Feature ID	ELC-N-M6(111)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/15/2015 3:23:27 PM	Precipitation	0		
End Date	6/15/2015 3:48:31 PM	Cloud Cover	20.00		

Polygon Description 1488

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Bog

Stand Species 1488

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Picea mariana > Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Picea mariana > Larix laricina > Pinus banksiana
Shrub	5 >0.5-1m	3 25 - 60%	Ledum groenlandicum > Chamaedaphne calyculata
Groundcover	5 >0.5-1m	4 > 60%	Carex stricta = sphagnum sphagnum
Floating & Submerged		0 None	

Stand Composition 1488

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Picea mariana > Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Stand Classification		1488
Community Age	Mid-Age	
Ecosite	Coniferous treed bog	
Ecosite Code	BOT1	
Vegetation Type	Black spruce treed bog	
Vegetation Type Code	BOT1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1152

Notes

Location

Latitude:45.873281,Longitude:-80.610744,Altitude:195.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/15/2015 03:45:32 EDT



Dead

Species	Tally	ID
Larix laricina	2.00	2187

Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Soil Description

Pit ID	1		1140
Location	Latitude:45.873281,Longitude:-80.610744,Altitude:195.3,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:06/15/2015 03:45:18 EDT	Notes	Aspect 270Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Additional Notes



Execution Time 9/15/2015 3:32:47 PM

Filter Start Date 6/9/2015

Filter End Date 6/15/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1422

Feature ID	ELC-S-M51(750)	Congruent Features	M51(756), M51(761), M51(736)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	6/16/2015 8:59:36 AM	Precipitation	0		
End Date	6/16/2015 9:31:04 AM	Cloud Cover	10.00		

Polygon Description 1422

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Forest

Stand Species 1422

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Fraxinus nigra > Populus tremuloides > Acer rubrum
Sub Canopy	3 >2-6m	3 25 - 60%	Fraxinus nigra > Populus tremuloides
Shrub	5 >0.5-1m	3 25 - 60%	Corylus cornuta > Fraxinus nigra > Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Tiarella cordifolia > Solidago canadensis > Aster macrohyllus > Carex tenuiflora
Floating & Submerged		0 None	

Stand Composition 1422

	<10	10-24	25-50	>50
Size Class Analysis	O	A	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Fraxinus nigra > Populus tremuloides
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1422

Community Age	Mid-Age
Ecosite	Fresh-moist lowland deciduous forest
Ecosite Code	FOD7
Vegetation Type	Fresh-moist ash lowland deciduous forest
Vegetation Type Code	FOD7-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1122

Notes		Location	Latitude:45.847487,Longitude:-80.573055,Altitude:199.3,Speed:0.08231111,Accuracy:2.4,Provider:gps,Time:06/16/2015 09:26:08 EDT
Dead			



Species	Tally	ID
Fraxinus nigra	5.00	2103
Populus tremuloides	2.00	2106
Abies balsamea	1.00	2109
Betula papyrifera	1.00	2112
Thuja canadensis	1.00	2115

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1092
Location	Latitude:45.84753,Longitude:-80.573088,Altitude:192.8,Speed:0.13375555,Accuracy:2.1,Provider:gps,Time:06/16/2015 09:17:42 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	50.00
Slope Aspect (deg)	1.00	Gley	
Slope Percent	0.00	Water Table	60.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	1.00	Om
Horizon 2	10.00		Sc
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	6
Effective Texture	Sc

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1425

Feature ID	ELC-S-M51(751)	Congruent Features	M51(753), M51(759), M51(760)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	6/16/2015 9:37:40 AM	Precipitation	0		
End Date	6/16/2015 9:58:51 AM	Cloud Cover	10.00		

Polygon Description 1425

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Thicket

Stand Species 1425

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Alnus incana > Sambucus canadensis > Corylus cornuta > Rubus idaeus
Groundcover	6 >0.2-0.5m		Impatiens capensis > Geum aleppicum > Eupatorium maculatum > Agrostis stolonifera
Floating & Submerged		0 None	

Stand Composition 1425

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana > Corylus cornuta
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1425
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1095

Location	Latitude:45.84788,Longitude:-80.572079,Altitude:193.3,Speed:0.09774444,Accuracy:3.0,Provider:gps,Time:06/16/2015 09:40:36 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	25.00
Slope Aspect (deg)	12.00	Gley	
Slope Percent	1.00	Water Table	45.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00		Sc
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	Sc

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1428

Feature ID	ELC-S-M51(752)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 10:16:29 AM	Precipitation	0		
End Date	6/16/2015 10:39:53 AM	Cloud Cover	10.00		

Polygon Description 1428

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid
Community	Marsh

Stand Species 1428

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	4 > 60%	Spiraea alba > Phalaris arundinacea > Calamagrostis canadensis
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex lacustris > Carex spicata
Floating & Submerged		0 None	

Stand Composition 1428

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1428
Community Age	Mid-Age	
Ecosite	Mineral meadow marsh	
Ecosite Code	MAM2	
Vegetation Type	Reed-canary grass mineral meadow marsh	
Vegetation Type Code	MAM2-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1098
Pit ID	1	

Location	Latitude:45.847078,Longitude:-80.571061,Altitude:185.3,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/16/2015 10:18:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	30.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	15.00		ScL
Horizon 3	50.00		Cs
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	6
Effective Texture	ScL

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1431

Feature ID	ELC-S-M51(754)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	6/16/2015 10:48:54 AM	Precipitation	0		
End Date	6/16/2015 10:59:35 AM	Cloud Cover	60.00		

Polygon Description 1431

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Coniferous
Community	Barren

Stand Species 1431

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana =Pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus strobus
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis > Abies balsamea
Groundcover	7 <0.2m		Lichen sp. > Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1431

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Pinus banksiana = Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1431
Community Age	Mid-Age
Ecosite	Acidic shrub rock barren
Ecosite Code	RBS3
Vegetation Type	Common juniper acidic rock barren
Vegetation Type Code	RBS3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1434

Feature ID	ELC-S-M51(755)	Congruent Features	M51(763), M51(762)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 11:06:58 AM	Precipitation	0		
End Date	6/16/2015 11:45:52 AM	Cloud Cover	60.00		

Polygon Description 1434

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Valley Slope
Plant Form	Mixed
Community	Forest

Stand Species 1434

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides > Abies balsamea > Acer rubrum >Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Populus tremuloides > Abies balsamea >Acer rubrum > Betula papyrifera
Shrub	5 >0.5-1m	2 10 - 25%	Viburnum lentago > Acer rubrum > Pteridium aquilinum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Cornus canadensis > Aralia nudicaulis > Trientalis borealis
Floating & Submerged		0 None	

Stand Composition 1434

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Populus tremuloides > Abies balsamea > Acer rubrum
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

ELC - WEC

Stand Classification	1434

Community Age	Mid-Age
Ecosite	Fresh-moist spruce/fir-hardwood mixed forest
Ecosite Code	FOMM10
Vegetation Type	Fresh-moist balsam fir-mixed forest
Vegetation Type Code	FOMM10-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1125

Notes		Location	Latitude:45.84603,Longitude:-80.56933,Altitude:191.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/16/2015 11:44:23 EDT
Dead			



Species	Tally	ID
Populus tremuloides	5.00	2118
Abies balsamea	7.00	2121
Acer rubrum	4.00	2124
Betula papyrifera	2.00	2127

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1101
Location	Latitude:45.845909,Longitude:-80.569641,Altitude:188.9,Speed:0.07716667,Accuracy:3.0,Provider:gps,Time:06/16/2015 11:10:12 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	0.00
Slope Aspect (deg)	14.00	Gley	0.00
Slope Percent	6.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00	14.00	Sl
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	3
Drainage	3
Effective Texture	Sl

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1437

Feature ID	ELC-S-M51(749)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 12:21:04 PM	Precipitation	0		
End Date	6/16/2015 12:31:53 PM	Cloud Cover	75.00		

Polygon Description 1437

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Coniferous
Community	Barren

Stand Species 1437

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Pinus strobus > Abies balsamea
Sub Canopy	3 >2-6m	3 25 - 60%	Abies balsamea > Pinus banksiana = Pinus strobus
Shrub	6 >0.2-0.5m	2 10 - 25%	Abies balsamea > Juniperus communis > Pteridium aquilinum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Lichen sp. > Vaccinium angustifolium
Floating & Submerged		0 None	

Stand Composition 1437

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Pinus banksiana > Pinus strobus > Abies balsamea
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1437

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1128

Notes

Dead

Location

Latitude:45.845213,Longitude:-80.569147,Altitude:198.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:06/16/2015 12:30:09 EDT



Species	Tally	ID
Pinus banksiana	3.00	2130
Pinus strobus	5.00	2133

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	NATALIYA & CASEY	1440

Feature ID	ELC-S-M51(758)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 1:30:14 PM	Precipitation	0		
End Date	6/16/2015 1:55:36 PM	Cloud Cover	75.00		

Polygon Description 1440

System	Wetland
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD
Community	Pond

Stand Species 1440

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover		0 None	
Floating & Submerged		3 25 - 60%	Lemna minor > Polygonum amphibium = Nuphar variegatum

Stand Composition 1440

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1440
Community Age	Mid-Age	
Ecosite	Mixed shallow aquatic ecosite	
Ecosite Code	SAM1	
Vegetation Type	Duckweed mixed shallow aquatic type	
Vegetation Type Code	SAM1-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M3	Field Crew	NATALIYA & CASEY	1443

Feature ID	ELC-S-M3(799)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 2:12:07 PM	Precipitation	0		
End Date	6/16/2015 2:39:35 PM	Cloud Cover	75.00		

Polygon Description 1443

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1443

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Fraxinus nigra > Populus tremuloides = Acer rubrum > Abies balsamea > Betula alleghaniensis
Sub Canopy	3 >2-6m	4 > 60%	Fraxinus nigra > Populus tremuloides = Acer rubrum > Abies balsamea
Shrub	6 >0.2-0.5m	1 0% - 10%	Dryopteris cristata > Corylus cornuta > Acer rubrum > Fraxinus nigra
Groundcover	7 <0.2m	1 0% - 10%	Maianthemum canadensis > Trientalis borealis > Trillium grandiflorum > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1443

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Fraxinus nigra > Abies balsamea = Acer rubrum
Species Dominance 10-24	Fraxinus nigra > Acer rubrum =Populus tremuloides
Species Dominance 25-50	Populus tremuloides > Acer rubrum
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1443

Community Age	Mid-Age
Ecosite	Fresh-moist spruce/fir - hardwood mixed forest
Ecosite Code	FOMM10
Vegetation Type	Fresh-moist balsam fir- hardwood mixed forest
Vegetation Type Code	FOMM10-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1131

Notes

Location

Latitude:45.856458,Longitude:-80.576069,Altitude:191.0,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:06/16/2015 02:30:22 EDT



Dead

Species	Tally	ID
Abies balsamea	7.00	2136
Betula alleghaniensis	2.00	2139
Populus tremuloides	3.00	2142
Acer rubrum	2.00	2145

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1104
Location	Latitude:45.856375,Longitude:-80.576083,Altitude:184.9,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:06/16/2015 02:15:34 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	15.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	7.00		Sandy clay
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	5
Effective Texture	Sandy clay

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M3	Field Crew	NATALIYA & CASEY	1446

Feature ID	ELC-S-M3(798)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/16/2015 2:51:35 PM	Precipitation	0		
End Date	6/16/2015 3:03:52 PM	Cloud Cover	75.00		

Polygon Description 1446

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Thicket

Stand Species 1446

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Alnus incana > Nemopanthus mucronatus > Viburnum lentago
Groundcover		3 25 - 60%	Calamagrostis canadensis > Sphagnum sp. >Calla palustris
Floating & Submerged		0 None	

Stand Composition 1446

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1446

Community Age	Mid-Age
Ecosite	Alder mineral deciduous thicket swamp
Ecosite Code	SWT2
Vegetation Type	Speckled Alder mineral deciduous thicket swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID: 1 (1107)

Location	Latitude:45.857576,Longitude:-80.578742,Altitude:198.6,Speed:0.08231111,Accuracy:2.7,Provider:gps,Time:06/16/2015 02:55:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	7.00	0.00	Om
Horizon 3	50.00		SCl
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	6
Effective Texture	Sandy clay

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1449

Feature ID	ELC-N-M4(504)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 9:11:27 AM	Precipitation	0		
End Date	6/16/2015 9:31:41 AM	Cloud Cover	10.00		

Polygon Description 1449

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte
Community	Stream

Stand Species 1449

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		4 > 60%	
Shrub		0 None	
Groundcover	7 <0.2m	1 0% - 10%	Triadenum fraseri
Floating & Submerged		2 10 - 25%	Utricularia spp.> Potsmogeton spp.

Stand Composition 1449

	<10	10-24	25-50	>50
Size Class Analysis		N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1449

Community Age	Young
Ecosite	Open Aquatic
Ecosite Code	OAO
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1110

Location	Latitude:45.871778,Longitude:-80.585424,Altitude:176.9,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:06/16/2015 09:27:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	54.00	mS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	25.00
Moisture Regime	6
Drainage	7
Effective Texture	mS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1452

Feature ID	ELC-N-M4(499)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 9:40:34 AM	Precipitation	0		
End Date	6/16/2015 9:56:00 AM	Cloud Cover	5.00		

Polygon Description 1452

System	Wetland
Site	Open Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb
Community	Stream

Stand Species 1452

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinus strobus> Betula papyrifera
Sub Canopy	3 >2-6m	3 25 - 60%	Pinus strobus > Picea glauca
Shrub	2 >6-25m	3 25 - 60%	Alnus incana> Prunus pensylvanica> Rubeus alleghensis
Groundcover	5 >0.5-1m	2 10 - 25%	Carex crinita> Eupatorium maculatum
Floating & Submerged		2 10 - 25%	Sparganium fluctuans

Stand Composition 1452

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	O	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Pinus strobus > Betula papyrifera
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1452
Community Age		
Ecosite	Mineral thicket Swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion	Open aquatic	
Inclusion Code	OAO	
Complex		
Complex Code		

Soil Description

Pit ID	1	1113

Location	Latitude:45.871593,Longitude:-80.58547,Altitude:175.1,Speed:0.14404444,Accuracy:2.0,Provider:gps,Time:06/16/2015 09:48:38 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	171.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	70.00	mS
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	25.00
Moisture Regime	6
Drainage	6
Effective Texture	mS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1455

Feature ID	ELC-N-M4(501)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 10:37:37 AM	Precipitation	0		
End Date	6/16/2015 11:27:37 PM	Cloud Cover	5.00		

Polygon Description 1455

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Forest

Stand Species 1455

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Acer saccharum> populus tremuloides> populous grandidenta> Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Betula papyrifera > Quercus rubra> Populus tremuloides
Shrub	3 >2-6m	4 > 60%	Cory lush cornuta> Cornus rugosa> Rubeus idaeus
Groundcover	4 >1-2m	3 25 - 60%	Aster macrophyllus> Aralia nudicaulis> pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1455

	<10	10-24	25-50	>50
Size Class Analysis	A		O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Betula papyrifera > populus tremuloides > populus
Species Dominance 10-24	Acer saccharum > Populus tremuloides > populus
Species Dominance 25-50	Acer saccharum > populus tremuloides > populu
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1455

Community Age	Mature
Ecosite	Dry- fresh sugar maple deciduous forest
Ecosite Code	FOD5
Vegetation Type	Dry- fresh sugar maple- white birch-poplar deciduo
Vegetation Type Code	FOD5-10
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1134

Notes		Location	Latitude:45.871968,Longitude:-80.586611,Altitude:194.5,Speed:0.06173333,Accuracy:2.7,Provider:gps,Time:06/16/2015 11:04:35 EDT
Dead	3.00		



Species	Tally	ID
Populus grandidenta	3.00	2148
Acer saccharum	4.00	2151
Betula papyrifera	4.00	2154

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1116
Location	Latitude:45.871957,Longitude:-80.586577,Altitude:188.3,Speed:0.11317778,Accuracy:2.4,Provider:gps,Time:06/16/2015 10:54:00 EDT	Notes	
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	25.00	0.00	SifS
Horizon 2	120.00		mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	O/R
Effective Texture	mS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1458

Feature ID	ELC-N-M4(502)	Congruent Features	M04(505)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 11:15:23 AM	Precipitation	0		
End Date	6/16/2015 11:44:46 PM	Cloud Cover	5.00		

Polygon Description 1458

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 1458

	Height	Cover	Species Dominance
Canopy	1 >25m	3 25 - 60%	Pinus strobus > Pinus banksiana > Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Quercus rubra> Betula papyrifera > Abies balsamea> Populus grandidenta
Shrub	5 >0.5-1m	3 25 - 60%	Vaccinium angustifolium> Vaccinium myrttiloides> Gaylussacia baccata
Groundcover	5 >0.5-1m	2 10 - 25%	Cladina spp.> polytechnic spp.> mainthemum canadense> bracken fern
Floating & Submerged		0 None	

Stand Composition 1458

	<10	10-24	25-50	>50
Size Class Analysis	O		O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Quercus runra> Acer rubrum
Species Dominance 10-24	Pinus strobus > Pinus banksiana > Betula papyrife
Species Dominance 25-50	Pinus strobus> Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1458
Community Age	Mature
Ecosite	Dry fresh white pine hardwood mixed forest
Ecosite Code	FOM2
Vegetation Type	Dry - fresh white pine oak mixed forest
Vegetation Type Code	FOM2-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1137

Notes		Location	
		Latitude:45.873573,Longitude:-80.586872,Altitude:203.9,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:06/16/2015 11:43:29 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	3.00	2157
Pinus strobus	2.00	2160
Pinus rugosa	1.00	2163
Acer rubrum	1.00	2166

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1119
Location	Latitude:45.873587,Longitude:-80.586861,Altitude:202.2,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:06/16/2015 11:40:03 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	24.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	12.00	0.00	H
Horizon 2	24.00		SifS
Horizon 3			
Horizon 4			

% Surface Stone	51.00
Moisture Regime	1
Drainage	O/R
Effective Texture	SifS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1461

Feature ID	ELC-N-M4(108)	Congruent Features	M04(437)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 12:21:03 PM	Precipitation	0		
End Date	6/16/2015 12:56:34 PM	Cloud Cover	5.00		

Polygon Description 1461

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Mixed
Community	Forest

Stand Species 1461

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana> Thuja occidentalis> Betula papyrifera> Fraxinus nigra
Sub Canopy	2 >6-25m	3 25 - 60%	Acer rubrum> Abies balsamea
Shrub	2 >6-25m	3 25 - 60%	Viburnum cassinoides> Vaccinium angustifolium > Alnus incana> lonicera candensis> Acer spicatum> Nemopanthus mucronatus
Groundcover	4 >1-2m	4 > 60%	Cornus canadensisi> mainthemum canadense > trinetalis borealis> coptis trifolia
Floating & Submerged		0 None	

Stand Composition 1461

	<10	10-24	25-50	>50
Size Class Analysis	A	A		N
Standing Snags	O	O	R	N
Deadfall / Logs	A	O	O	N

Species Dominance <10	Abies balsamea > Acer rubrum
Species Dominance 10-24	Picea mariana > Betula papyrifera > Acer rubrum
Species Dominance 25-50	Picea mariana > Thuja occidentalis
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1461
Community Age	Mature
Ecosite	Coniferous forest
Ecosite Code	FOC
Vegetation Type	
Vegetation Type Code	
Inclusion	Mineral thicket Swamp ecosite
Inclusion Code	SWT2
Complex	
Complex Code	

Tree Tally	1140

Notes		Location	
		Latitude:45.874252,Longitude:-80.590149,Altitude:195.9,Speed:0.1389,Accuracy:2.4,Provider:gps,Time:06/16/2015 12:58:00 EDT	
Dead			

Species	Tally	ID
Picea mariana	5.00	2169
Thuja occidentalis	1.00	2172
Betula papyrife	2.00	2175

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1122
Location	Latitude:45.874262,Longitude:-80.590119,Altitude:182.2,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:06/16/2015 12:41:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	5.00
Slope Aspect (deg)	0.00	Gley	5.00
Slope Percent	0.00	Water Table	53.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	13.00	0.00	Humic
Horizon 2	40.00	0.00	Silty fine sand
Horizon 3	120.00	0.00	Silty very fine sand
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	SivfS

Additional Notes

Spruce dominated coniferous forest. There is no ecosite option for this so left at community.

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M04	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1464

Feature ID	ELC-N-M4(200)	Congruent Features	M04(424), M04(201)		
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 1:10:36 PM	Precipitation	0		
End Date	6/16/2015 1:24:20 PM	Cloud Cover	25.00		

Polygon Description 1464

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1464

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus> Quercus rubra
Sub Canopy	4 >1-2m	2 10 - 25%	Quercus rubra > Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Vaccinium angustifolium > Kalia angustifolia
Groundcover	5 >0.5-1m	3 25 - 60%	Cladina spp > polytechnic dpp.> umbilicaria spp. > pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1464

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Pinus strobus > Quercus rubr
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1464

Community Age	Mature
Ecosite	RBT3
Ecosite Code	ACIDIC TREED ROCK BARREN
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1143

Notes

Dead

Location

Latitude:45.872703,Longitude:-80.592868,Altitude:200.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/16/2015 01:20:13 EDT



Species	Tally	ID
Quercus rubra	1.00	2178

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M05	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1467

Feature ID	ELC-N-M4(507)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	23.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 1:57:39 PM	Precipitation	0		
End Date	6/16/2015 2:24:59 PM	Cloud Cover	40.00		

Polygon Description 1467

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1467

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina> Picea mariana
Sub Canopy	4 >1-2m	2 10 - 25%	Larix laricina
Shrub	5 >0.5-1m	3 25 - 60%	Chamaedaphne calculata> Nemopanthus mucronatus > Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum spp. > mainthemum trifolia > osmunda regalis> Carex spp.
Floating & Submerged		0 None	

Stand Composition 1467

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina > Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1467

Community Age	
Ecosite	Treed fen
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen type
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1146

Notes

Dead

Location

Latitude:45.872777,Longitude:-80.601968,Altitude:197.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/16/2015 02:24:36 EDT



Species	Tally	ID
Larix laricina	1.00	2181

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1125
Location	Latitude:45.872731,Longitude:-80.602018,Altitude:193.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/16/2015 02:11:10 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	6.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Same polygon in map 6 but done in map 5

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M06	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1470

Feature ID	ELC-N-M4(506)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/16/2015 2:29:49 PM	Precipitation	0		
End Date	6/16/2015 2:35:24 PM	Cloud Cover	20.00		

Polygon Description 1470

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1470

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Pinus strobus> Betula papyrifera > Acer rubrum
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis> Vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina spp.> polytechnic spp > Deschampsia flexuousa
Floating & Submerged		0 None	

Stand Composition 1470

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Pinus strobus
Species Dominance 10-24	Pinus banksiana > Pinus strobus
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1470
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Same polygon in map 6 completed in map 5



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M44	Field Crew	ADAM, TOM	1491

Feature ID	ELC-S-M44(462)	Congruent Features	M44(464)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/16/2015 10:31:34 AM	Precipitation	0		
End Date	6/16/2015 10:49:32 AM	Cloud Cover	10.00		

Polygon Description 1491

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1491

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana >> Picea mariana
Shrub	6 >0.2-0.5m	3 25 - 60%	Vaccinium angustifolium
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina > Umbilicaria mammulata > Stereocaulon tomentosum = Danthonia spicata = Polytrichum juniperinum
Floating & Submerged		0 None	

Stand Composition 1491

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana > Picea mariana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1491

Community Age	Mid-Age
Ecosite	Non-calcareous treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine non-calcareous treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	Black spruce - poplar mineral mixed swamp
Inclusion Code	SWCA
Complex	
Complex Code	

Tree Tally 1155

Notes

Dead

Location

Latitude:45.822777,Longitude:-80.637873,Altitude:191.0,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:06/16/2015 10:48:41 EDT



Species	Tally	ID
Pinus banksiana	4.00	2190

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M44	Field Crew	ADAM, TOM	1494

Feature ID	ELC-S-M44(462a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 11:23:59 AM	Precipitation	0		
End Date	6/16/2015 11:42:37 AM	Cloud Cover	50.00		

Polygon Description 1494

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1494

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina = Picea mariana
Sub Canopy	4 >1-2m	2 10 - 25%	Larix laricina > Picea mariana
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calyculata > Kalmia angustifolia
Groundcover	7 <0.2m	4 > 60%	Sphagnum sp. > Carex oligosperma
Floating & Submerged		0 None	

Stand Composition 1494

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina = Picea mariana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1494
Community Age	Mid-Age	
Ecosite	Treed Fen Ecosite	
Ecosite Code	FET1	
Vegetation Type	Tamarack Treed Fen	
Vegetation Type Code	FET1-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally	1158

Notes		Location	
		Latitude:45.82225,Longitude:-80.63808,Altitude:192.4,Speed:0.041155554,Accuracy:1.25,Provider:gps,Time:06/16/2015 11:39:46 EDT	
Dead			

Species	Tally	ID
Larix laricina	1.00	2193

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1143
Location	Latitude:45.82222,Longitude:-80.637975,Altitude:190.7,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:06/16/2015 11:33:59 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	45.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	65.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	55.00	0.00	Of
Horizon 2	65.00		Oh
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M44	Field Crew	ADAM, TOM	1497

Feature ID	ELC-S-M44(321a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 11:57:29 AM	Precipitation	0		
End Date	6/16/2015 12:31:57 PM	Cloud Cover	60.00		

Polygon Description 1497

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Swamp

Stand Species 1497

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Acer rubrum > Picea mariana > Larix laricina
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Alnus incana >> Salix bebbiana > Acer rubrum
Groundcover	6 >0.2-0.5m	4 > 60%	Carex sp. > Sphagnum sp. >> Rubus idaeus
Floating & Submerged		0 None	

Stand Composition 1497

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Acer rubrum > Picea mariana > Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1497

Community Age	Mid-Age
Ecosite	Organic Thicket Swamp
Ecosite Code	SWT3
Vegetation Type	Alder Organic Thicket Swamp
Vegetation Type Code	SWT3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID: 1 (1146)

Location	Latitude:45.820769,Longitude:-80.636382,Altitude:190.6,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:06/16/2015 12:26:59 EDT	Notes	Aspect 335
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	15.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M44	Field Crew	ADAM, TOM	1500

Feature ID	ELC-S-M44(321)	Congruent Features	M44(322)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 12:52:48 PM	Precipitation	0		
End Date	6/16/2015 1:15:17 PM	Cloud Cover	50.00		

Polygon Description 1500

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1500

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus grandidentata > Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum
Shrub	6 >0.2-0.5m	2 10 - 25%	Acer rubrum >> Vaccinium cassinoides
Groundcover	6 >0.2-0.5m	4 > 60%	Pteridium aquilinum > Cornus canadensis > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1500

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum
Species Dominance 10-24	Populus grandidentata = Betula papyrifera
Species Dominance 25-50	Populus grandidentata
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1500

Community Age	Mid-Age
Ecosite	Dry-fresh poplar-white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry-fresh white birch deciduous forest
Vegetation Type Code	FOD3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1161

Notes		Location	
		Latitude:45.82073,Longitude:-80.635887,Altitude:186.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/16/2015 01:02:23 EDT	
Dead	1.00		

Species	Tally	ID
Betula papyrifera	4.00	2196
Populus grandidentata	8.00	2199
Acer rubrum	4.00	2202

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1149
Location	Latitude:45.820732,Longitude:-80.635877,Altitude:187.0,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:06/16/2015 01:00:42 EDT	Notes	Aspect 320Did not hit bedrock at 70
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	70.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	35.00	0.00	vcS
Horizon 3	70.00		SiS
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	1
Drainage	3
Effective Texture	SiS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M45	Field Crew	ADAM, TOM	1503

Feature ID	ELC-S-M45(361)	Congruent Features	M45(360), M45(408), M45(362)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 1:30:16 PM	Precipitation	0		
End Date	6/16/2015 1:42:12 PM	Cloud Cover	40.00		

Polygon Description 1503

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1503

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Pinus banksiana > Betula papyrifera
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis > Vaccinium angustifolium
Groundcover	7 <0.2m	3 25 - 60%	Cladina rangiferina > Umbilicaria mammulata > Polytrichum juniperinum > Danthonia spicata
Floating & Submerged		0 None	

Stand Composition 1503

	<10	10-24	25-50	>50
Size Class Analysis	R	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1503

Community Age	Mid-Age
Ecosite	Acidic open rock barren
Ecosite Code	RBO3
Vegetation Type	Dry Acidic open rock barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1164

Notes

Dead

Location

Latitude:45.82044,Longitude:-80.631526,Altitude:195.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/16/2015 01:40:51 EDT



Species	Tally	ID
Pinus banksiana	1.00	2205

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M45	Field Crew	ADAM, TOM	1506

Feature ID	ELC-S-M45(409)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 1:49:54 PM	Precipitation	0		
End Date	6/16/2015 2:07:56 PM	Cloud Cover	60.00		

Polygon Description 1506

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous,Coniferous
Community	Bog

Stand Species 1506

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina
Shrub	6 >0.2-0.5m	3 25 - 60%	Chamaedaphne calyculata
Groundcover	6 >0.2-0.5m	4 > 60%	Sphagnum sp. > Carex lacustris
Floating & Submerged		0 None	

Stand Composition 1506

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1506

Community Age	Mid-Age
Ecosite	Treed Bog
Ecosite Code	BOT1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1167

Notes		Location	
		Latitude:45.820248,Longitude:-80.631169,Altitude:189.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/16/2015 02:05:14 EDT	
Dead			

Species	Tally	ID
Larix laricina	1.00	2208

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1152
Location	Latitude:45.820253,Longitude:-80.631133,Altitude:190.3,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/16/2015 02:00:27 EDT	Notes	Aspect 210Did not hit bedrock at 85
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	40.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	40.00	45.00	vcS
Horizon 3	85.00		SiL
Horizon 4	0.00		

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	SiL

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M45	Field Crew	ADAM, TOM	1509

Feature ID	ELC-S-M45(181)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	5		
Start Date	6/16/2015 2:25:30 PM	Precipitation	0		
End Date	6/16/2015 2:46:19 PM	Cloud Cover	60.00		

Polygon Description 1509

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Deciduous
Community	Forest

Stand Species 1509

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera > Populus grandidentata > Acer rubrum
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum
Shrub	4 >1-2m	1 0% - 10%	Acer rubrum
Groundcover	5 >0.5-1m	4 > 60%	Pteridium aquilinum > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1509

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Betula papyrifera > Populus grandidentata
Species Dominance 25-50	Populus grandidentata > Betula papyrifera
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1509
Community Age	Mid-Age
Ecosite	Dry-fresh poplar-white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry-fresh white birch deciduous forest
Vegetation Type Code	FOD3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1170

Notes

Location

Latitude:45.819648,Longitude:-80.630242,Altitude:188.3,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/16/2015 02:37:48 EDT



Dead 3.00

Species	Tally	ID
Populus grandidentata	2.00	2211
Betula papyrifera	10.00	2214
Acer rubrum	1.00	2217

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1155
Location	Latitude:45.819651,Longitude:-80.63024,Altitude:188.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/16/2015 02:42:08 EDT	Notes	Aspect 250Did not hit bedrock at 80
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	30.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	45.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	50.00	0.00	SL
Horizon 3	80.00		SiS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	5
Effective Texture	SiS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M45	Field Crew	ADAM, TOM	1512

Feature ID	ELC-S-M45(243)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/16/2015 2:52:51 PM	Precipitation	0		
End Date	6/16/2015 3:06:07 PM	Cloud Cover	60.00		

Polygon Description 1512

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Floating-LVD
Community	Lake

Stand Species 1512

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	1 0% - 10%	Myrica gale
Groundcover	7 <0.2m	1 0% - 10%	Sphagnum sp.
Floating & Submerged		3 25 - 60%	Nuphar variegatum = Nymphaea odorata > Brasenia schreberi

Stand Composition 1512

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	R	O	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1512

Community Age	Mid-Age
Ecosite	Floating-leaved shallow aquatic
Ecosite Code	SAF1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1158

Location	Latitude:45.820036,Longitude:-80.627875,Altitude:179.8,Speed:0.2675111,Accuracy:2.0,Provider:gps,Time:06/16/2015 03:05:28 EDT	Notes	Aspect 120
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	80.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	Of
Horizon 2	80.00	100.00	SiS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	7
Effective Texture	Organic

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M30	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1515

Feature ID	ELC-S-M30(768)	Congruent Features	M30(767), M30(769)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/17/2015 9:44:27 AM	Precipitation	0		
End Date	6/17/2015 10:13:48 AM	Cloud Cover	80.00		

Polygon Description 1515

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Marsh

Stand Species 1515

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	3 >2-6m	2 10 - 25%	Alnus incana > Chamaedaphne calyculata> Gaylussacia baccata
Groundcover		3 25 - 60%	Carex crinita > Sphagnum spp.
Floating & Submerged		0 None	

Stand Composition 1515

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	R	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1515

Community Age	Young
Ecosite	Oorganic Shallow Marsh Ecosite
Ecosite Code	MAS3
Vegetation Type	Broad-leaved Sedge Organic Shallow Marsh
Vegetation Type Code	MAS3-4
Inclusion	Alder Organic Thicket Swamp
Inclusion Code	SWT3-1
Complex	
Complex Code	

Soil Description

Pit ID	1

1161

Location	Latitude:45.838059,Longitude:-80.641421,Altitude:194.5,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/17/2015 10:06:30 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	4.00	0.00	Of
Horizon 2	120.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	9
Effective Texture	Om

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M30	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1518

Feature ID	ELC-S-M30(771)	Congruent Features	M30(766)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/17/2015 10:27:29 AM	Precipitation	0		
End Date	6/17/2015 10:37:38 AM	Cloud Cover	80.00		

Polygon Description 1518

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1518

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Betula papyrifera
Shrub	4 >1-2m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium > Vaccinium myrttiloides
Groundcover	6 >0.2-0.5m	4 > 60%	Cladina spp.> Polytrichum spp.> Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1518

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Betula papyrifera
Species Dominance 10-24	Pinus banksiana > Betula papyrifera
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1518
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1173

Notes		Location	
		Latitude:45.83823,Longitude:-80.640673,Altitude:192.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/17/2015 10:36:45 EDT	
Dead			

Species	Tally	ID
Pinus banksiana	1.00	2220

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M16	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1521

Feature ID	ELC-S-M16(770)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/17/2015 11:02:35 AM	Precipitation	0		
End Date	6/17/2015 11:31:31 AM	Cloud Cover	80.00		

Polygon Description 1521

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Deciduous
Community	Swamp

Stand Species 1521

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	2 >6-25m	3 25 - 60%	Alnus incana > Rubeus alleghensis
Groundcover	5 >0.5-1m	3 25 - 60%	Carex spp.> Phalaris arundinacia
Floating & Submerged		0 None	

Stand Composition 1521

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1521
Community Age		
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicketswamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1164

Location	Latitude:45.837971,Longitude:-80.638508,Altitude:183.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/17/2015 11:09:48 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	45.00
Slope Aspect (deg)	0.00	Gley	40.00
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	3.00	0.00	Of
Horizon 2	50.00		SifS
Horizon 3	120.00		SiCL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	7
Effective Texture	SiCL

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M16	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1524

Feature ID	ELC-S-M16(772)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	3		
Start Date	6/17/2015 11:45:23 AM	Precipitation	0		
End Date	6/17/2015 11:49:46 AM	Cloud Cover	80.00		

Polygon Description 1524

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1524

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Populus grandidenta > Populus tremuloides
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum> Betula papyrifera
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis > Vaccinium angustifolium > Rubeus alleghensis
Groundcover	7 <0.2m	3 25 - 60%	Cladina spp > Polytrichum spp.> Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1524

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana> Populus grandidenta > Populus
Species Dominance 10-24	Pinus banksiana > Populus grandidenta
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1524
Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M39	Field Crew	KASEY & JASON	1527

Feature ID	ELC-S-M39(720)	Congruent Features	M39(247), M39(291), M39(503), M39(502), M39(539), M39 (184)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	6/16/2015 10:58:44 AM	Precipitation	0		
End Date	6/16/2015 11:27:21 AM	Cloud Cover	20.00		

Polygon Description 1527

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1527

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban >> pinustr
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban >> pinustr
Shrub	5 >0.5-1m	4 > 60%	Junicom >> Corycor
Groundcover	7 <0.2m	4 > 60%	Cladina sp >vaccang > maiacan > grass sp
Floating & Submerged		0 None	

Stand Composition 1527

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	A	O	R	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1527
Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M39	Field Crew	KASEY & JASON	1530

Feature ID	ELC-S-M39(317)	Congruent Features	M39(318)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/16/2015 11:45:00 AM	Precipitation	0		
End Date	6/16/2015 12:19:37 PM	Cloud Cover	25.00		

Polygon Description 1530

System	Terrestrial
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Swamp

Stand Species 1530

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Larilar
Sub Canopy	4 >1-2m	3 25 - 60%	Alnuinc > larilar
Shrub	5 >0.5-1m		Carelaq > chamcal > osmureg > alnuinc
Groundcover	7 <0.2m	3 25 - 60%	Sphagnum > maiatri > vaccoxy
Floating & Submerged		0 None	

Stand Composition 1530

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1530

Community Age	Mid-Age
Ecosite	Tamarack - black spruce organic coniferous swamp
Ecosite Code	SWC4
Vegetation Type	Tamarack organic coniferous swamp
Vegetation Type Code	SWC4-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1176

Notes		Location	Latitude:45.817754,Longitude:-80.664926,Altitude:186.3,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/16/2015 12:20:21 EDT
Dead			



Species	Tally	ID
Larilar	2.00	2223

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1167
Location	Latitude:45.817775,Longitude:-80.664849,Altitude:184.2,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:06/16/2015 11:56:45 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	59.00	Gley	
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	40.00	0.00	Oh
Horizon 3	120.00		SifS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	SifS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M39	Field Crew	KASEY & JASON	1533

Feature ID	ELC-S-M39(290)	Congruent Features	M39(8)		
Project Number	60341251	Air Temp. (degC)	22.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/16/2015 12:54:31 PM	Precipitation	0		
End Date	6/16/2015 1:25:34 PM	Cloud Cover	20.00		

Polygon Description 1533

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Coniferous
Community	Forest

Stand Species 1533

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Abiebal
Sub Canopy	2 >6-25m	4 > 60%	Abiebal >> betuall
Shrub	4 >1-2m	4 > 60%	Corycor
Groundcover	7 <0.2m	4 > 60%	Linnbor > Corncan > triebor > maiacan
Floating & Submerged		0 None	

Stand Composition 1533

	<10	10-24	25-50	>50
Size Class Analysis	O	O	A	O
Standing Snags	R	R	O	R
Deadfall / Logs	O	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1533

Community Age	Mature
Ecosite	Dry - fresh pine coniferous forest
Ecosite Code	FOC1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1179

Notes		Location	Latitude:45.818313,Longitude:-80.667252,Altitude:184.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:06/16/2015 01:24:51 EDT
Dead			



Species	Tally	ID
Abiebal	8.00	2226
Betuall	2.00	2229

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1170
Location	Latitude:45.818262,Longitude:-80.667324,Altitude:176.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:06/16/2015 01:15:51 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	40.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	11.00	Om
Horizon 2	40.00	40.00	SimS
Horizon 3			
Horizon 4		0.00	

% Surface Stone	40.00
Moisture Regime	0
Drainage	0
Effective Texture	SimS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M39	Field Crew	KASEY & JASON	1536

Feature ID	ELC-S-M39(185)	Congruent Features	M39(230), M39(231), M39(293)		
Project Number	60341251	Air Temp. (degC)	25.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/16/2015 1:55:51 PM	Precipitation	0		
End Date	6/16/2015 2:34:56 PM	Cloud Cover	25.00		

Polygon Description 1536

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 1536

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	4 > 60%	Corycor > pteraqu > chamcal > thalpub
Groundcover	7 <0.2m	4 > 60%	Grass?
Floating & Submerged		0 None	

Stand Composition 1536

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1536
Community Age	Mid-Age	
Ecosite	Mineral Meadow Marsh	
Ecosite Code	MAM2	
Vegetation Type	Reed Canary Grass Mineral Meadow Marsh	
Vegetation Type Code	MAM2-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1173

Location	Latitude:45.818715,Longitude:-80.6679,Altitude:171.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:06/16/2015 02:29:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	171.00	Gley	
Slope Percent	10.00	Water Table	30.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	SiC
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	3
Effective Texture	SiC

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M39	Field Crew	KASEY & JASON	1539

Feature ID	ELC-S-M39(4)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	24.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/16/2015 2:44:06 PM	Precipitation	0		
End Date	6/16/2015 3:07:11 PM	Cloud Cover	25.00		

Polygon Description 1539

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1539

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Popugra
Sub Canopy	2 >6-25m	4 > 60%	Acerrub
Shrub	5 >0.5-1m	4 > 60%	Pteraqu > acerrub > Corycor > popugra
Groundcover	7 <0.2m	4 > 60%	Corncan > maiacan > gaulpro > astemac
Floating & Submerged		0 None	

Stand Composition 1539

	<10	10-24	25-50	>50
Size Class Analysis	O	A	A	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1539

Community Age	Mature
Ecosite	Dry - fresh poplar - white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry - fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1182

Notes		Location	Latitude:45.818915,Longitude:-80.668816,Altitude:172.2,Speed:0.12861112,Accuracy:2.1,Provider:gps,Time:06/16/2015 02:59:59 EDT
Dead			



Species	Tally	ID
Populus grandidentata	4.00	2232
Betula papyrifera	1.00	2235
Pinus strobus	1.00	2238

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1176
Location	Latitude:45.818917,Longitude:-80.668812,Altitude:172.0,Speed:0.15947777,Accuracy:2.1,Provider:gps,Time:06/16/2015 02:58:18 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	299.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	70.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	70.00	0.00	SifS
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	1
Effective Texture	SifS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M36	Field Crew	KASEY & JASON	1542

Feature ID	ELC-S-M36(712)	Congruent Features	M36(538), M36(210), M36(612), M36(187)		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/17/2015 10:46:38 AM	Precipitation	0		
End Date	6/17/2015 10:57:00 AM	Cloud Cover	100.00		

Polygon Description 1542

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1542

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	5 >0.5-1m	3 25 - 60%	Junicom >> betupap
Groundcover	7 <0.2m	4 > 60%	Cladina sp > vaccang > grass spp > maiacan
Floating & Submerged		0 None	

Stand Composition 1542

	<10	10-24	25-50	>50
Size Class Analysis	A	A	R	N
Standing Snags	A	O	N	N
Deadfall / Logs	O	A	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1542

Community Age	Mid-Age
Ecosite	Acidic Treed Rock Barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Dry - fresh poplar mixed forest
Complex Code	FOM5-2

Tree Tally	1185

Notes		Location	Latitude:45.823479,Longitude:-80.667328,Altitude:182.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:06/17/2015 10:56:10 EDT
Dead	1.00		



Species	Tally	ID
Pinuban	2.00	2241

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M36	Field Crew	KASEY & JASON	1545

Feature ID	ELC-S-M36(622)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/17/2015 11:11:33 AM	Precipitation	0		
End Date	6/17/2015 11:38:02 AM	Cloud Cover	90.00		

Polygon Description 1545

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Coniferous
Community	Bog

Stand Species 1545

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Larilar
Sub Canopy	3 >2-6m	4 > 60%	Larilar
Shrub	6 >0.2-0.5m	4 > 60%	Chamcal > ledugro > kalmang
Groundcover	7 <0.2m	4 > 60%	Sphagnum > maiatri
Floating & Submerged		0 None	

Stand Composition 1545

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1545

Community Age	Mid-Age
Ecosite	Treed kettle bog
Ecosite Code	BOT1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1188

Notes		Location	Latitude:45.821488,Longitude:-80.667757,Altitude:180.1,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:06/17/2015 11:36:52 EDT
Dead			



Species	Tally	ID
Larilar	5.00	2244

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1179
Location	Latitude:45.821464,Longitude:-80.667775,Altitude:179.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/17/2015 11:33:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	281.00	Gley	
Slope Percent	5.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M36	Field Crew	KASEY & JASON	1548

Feature ID	ELC-S-M36(189)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	6/17/2015 12:05:55 PM	Precipitation	0		
End Date	6/17/2015 12:52:35 PM	Cloud Cover	50.00		

Polygon Description 1548

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Swamp

Stand Species 1548

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Larilar
Sub Canopy	3 >2-6m	3 25 - 60%	Larilar
Shrub	4 >1-2m	4 > 60%	Alnuinc
Groundcover	7 <0.2m	4 > 60%	Sphagnum > grass? > vaccang
Floating & Submerged		0 None	

Stand Composition 1548

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1548

Community Age	Mid-Age
Ecosite	Bedrock thicket swamp
Ecosite Code	SWT1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1191

Notes		Location	
		Latitude:45.823328,Longitude:-80.666159,Altitude:166.0,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:06/17/2015 12:48:29 EDT	
Dead			

Species	Tally	ID
Larilar	2.00	2247
Pinustr	1.00	2250
Picemar	1.00	2253

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1182
Location	Latitude:45.82331,Longitude:-80.666166,Altitude:167.8,Speed:0.11317778,Accuracy:1.8,Provider:gps,Time:06/17/2015 12:43:11 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	210.00	Gley	
Slope Percent	4.00	Water Table	1.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M36	Field Crew	KASEY & JASON	1551

Feature ID	ELC-S-M36(186)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/17/2015 1:17:58 PM	Precipitation	0		
End Date	6/17/2015 1:44:14 PM	Cloud Cover	90.00		

Polygon Description 1551

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Mixed
Community	Swamp

Stand Species 1551

	Height	Cover	Species Dominance
Canopy	1 >25m	4 > 60%	Poputre > picemar > betupap
Sub Canopy	2 >6-25m	4 > 60%	Poputre > picemar > betupap
Shrub	4 >1-2m	4 > 60%	Nemomuc > alnuinc > solican
Groundcover	7 <0.2m	4 > 60%	Sphagnum > rubuida > Corncan > maiacan
Floating & Submerged		0 None	

Stand Composition 1551

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	R	O	O	N
Deadfall / Logs	A	A	O	R

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1551
Community Age	Mature	
Ecosite	Birch - poplar organic mixed swamp	
Ecosite Code	SWM6	
Vegetation Type	Poplar - conifer organic mixed swamp	
Vegetation Type Code	SWM6-2	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1194

Notes

Location

Latitude:45.823971,Longitude:-80.662122,Altitude:171.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/17/2015 01:37:45 EDT



Dead 3.00

Species	Tally	ID
Betupap	2.00	2256
Poputre	3.00	2259
Picemar	2.00	2262
Larilar	1.00	2265

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1185
Location	Latitude:45.823977,Longitude:-80.662118,Altitude:170.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/17/2015 01:36:22 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	20.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M36	Field Crew	KASEY & JASON	1554

Feature ID	ELC-S-M36(211)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	6/17/2015 1:55:14 PM	Precipitation	0		
End Date	6/17/2015 2:21:47 PM	Cloud Cover	70.00		

Polygon Description 1554

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Forb,Bryophyte,Deciduous
Community	Fen

Stand Species 1554

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub			Carelasi > myrigal > chamcal
Groundcover	7 <0.2m	4 > 60%	Sphagnum > solican > rubuida
Floating & Submerged		0 None	

Stand Composition 1554

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1554

Community Age	Mid-Age
Ecosite	Open fen / shallow aquatic
Ecosite Code	FEO1 / SA
Vegetation Type	Slender sedge open fen / shallow aquatic
Vegetation Type Code	FEO1-2 / SA
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1197

Notes		Location	
Dead			

Species	Tally	ID
Na		2268

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1188
Location	Latitude:45.824453,Longitude:-80.661969,Altitude:180.7,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:06/17/2015 02:22:19 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	310.00	Gley	
Slope Percent	5.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	20.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	Of

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M53	Field Crew	NATALIYA & CASEY	1557

Feature ID	ELC-N-M53(513)	Congruent Features	M53(509)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	4		
Start Date	6/17/2015 2:33:35 PM	Precipitation	0		
End Date	6/17/2015 3:09:45 PM	Cloud Cover	90.00		

Polygon Description 1557

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Forest

Stand Species 1557

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum > Populus tremuloides > Quercus rubra
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Quercus rubra > Populus tremuloides
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta > Quercus rubra > Acer rubrum > Pteridium aquilinum
Groundcover	7 <0.2m	1 0% - 10%	Maianthemum canadense > Aralia nudicaulis > Aster macrophyllus
Floating & Submerged		0 None	

Stand Composition 1557

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Quercus rubra > Acer rubrum
Species Dominance 10-24	Acer rubrum > Quercus rubra > Populus tremuloides
Species Dominance 25-50	Acer rubrum > Quercus rubra
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1557

Community Age	Mid-Age
Ecosite	Dry-Fresh Poplar-white Birch Deciduous Forest
Ecosite Code	FOD3
Vegetation Type	Dry-Fresh Poplar Deciduous Forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1200

Notes		Location	Latitude:45.865974,Longitude:-80.583815,Altitude:215.3,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:06/17/2015 03:09:22 EDT
Dead	1.00		



Species	Tally	ID
Acer rubrum	6.00	2271
Quercus rubra	1.00	2274
Populus tremuloides	2.00	2277

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1191
Location	Latitude:45.865944,Longitude:-80.583885,Altitude:199.8,Speed:0.15947777,Accuracy:1.75,Provider:gps,Time:06/17/2015 02:44:09 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	60.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	90.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	95.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	5.00		SL
Horizon 3	30.00		SicS
Horizon 4	48.00		SCl

% Surface Stone	0.00
Moisture Regime	3
Drainage	5
Effective Texture	SCl

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M53	Field Crew	NATALIYA & CASEY	1560

Feature ID	ELC-N-M53(512)	Congruent Features	M53(514), M53(503)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	4		
Start Date	6/17/2015 3:20:33 PM	Precipitation	0		
End Date	6/17/2015 3:33:22 PM	Cloud Cover	90.00		

Polygon Description 1560

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Basic Bedrock
Topographic Feature	Rockland
Plant Form	Mixed
Community	Barren

Stand Species 1560

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > Quercus rubra > Acer rubrum
Sub Canopy	3 >2-6m	3 25 - 60%	Quercus rubra >Pinus strobus > Acer rubrum
Shrub	6 >0.2-0.5m	2 10 - 25%	Juniperus communis > Pteridium aquilinum > Quercus rubra
Groundcover	7 <0.2m	2 10 - 25%	Lichen sp. > Vaccinium angustifolium > Deschampsia flexuosa
Floating & Submerged		0 None	

Stand Composition 1560

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Quercus rubra > Pinus strobus
Species Dominance 10-24	Pinus strobus > Quercus rubra
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1560

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	Alder Mineral Thicket Swamp
Complex Code	SWT2-1

Tree Tally	1203

Notes		Location	Latitude:45.867242,Longitude:-80.584165,Altitude:199.9,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:06/17/2015 03:33:30 EDT
Dead	1.00		



Species	Tally	ID
Quercus rubra	4.00	2280
Pinus strobus	2.00	2283
Acer rubrum	1.00	2286

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M53	Field Crew	NATALIYA & CASEY	1563

Feature ID	ELC-N-M53(511)	Congruent Features	M53(508), M53(510), M53(500)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	4		
Start Date	6/17/2015 3:41:08 PM	Precipitation	0		
End Date	6/17/2015 4:03:12 PM	Cloud Cover	90.00		

Polygon Description 1563

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1563

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Quercus rubra > Populus grandidentata > Ulmus americana > Abies balsamea
Sub Canopy	3 >2-6m	3 25 - 60%	Quercus rubra > Populus grandidentata > Abies balsamea > Acer rubrum
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta >Quercus rubra > Acer rubrum > pinus strobus
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Trientalis borealis > Aralia nudicaulis > Cornus canadensis
Floating & Submerged		0 None	

Stand Composition 1563

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Quercus rubra > Acer rubrum
Species Dominance 10-24	Quercus rubra > Populus tremuloides
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1563

Community Age	Mid-Age
Ecosite	Dry -fresh white pine-maple-oak mixed forest
Ecosite Code	FOM2
Vegetation Type	Dry-fresh white pine-oak mixed forest
Vegetation Type Code	FOM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1206

Notes		Location	Latitude:45.867887,Longitude:-80.584666,Altitude:199.2,Speed:0.015433333,Accuracy:2.7,Provider:gps,Time:06/17/2015 03:57:11 EDT
Dead			



Species	Tally	ID
Pinus strobus	7.00	2289
Pinus resinosa	1.00	2292
Abies balsamea	1.00	2295
Populus grandidentata	7.00	2298
Acer rubrum	2.00	2301
Quercus rubra	1.00	2304

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1194
Location	Latitude:45.867739,Longitude:-80.584541,Altitude:190.0,Speed:0.07716667,Accuracy:2.4,Provider:gps,Time:06/17/2015 03:44:56 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	60.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	0.00	Carbonates	
		Bedrock	95.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00		LfS
Horizon 3	20.00		SCL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	SCL

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M4	Field Crew	NATALIYA AND CASEY	1566

Feature ID	ELC-S-M4(734)	Congruent Features	M4(735), M4(736)		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/17/2015 7:59:11 AM	Precipitation	0		
End Date	6/17/2015 8:26:37 AM	Cloud Cover	95.00		

Polygon Description 1566

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Forest

Stand Species 1566

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides > Fraxinus nigra
Sub Canopy	3 >2-6m	3 25 - 60%	Populus tremuloides > Fraxinus nigra
Shrub	5 >0.5-1m	3 25 - 60%	Heracleum mantegazzianum > Prunus virginiana > Ribes glandulosum > Cornus racemosa
Groundcover	7 <0.2m	3 25 - 60%	Arctium minus > Impatiens capensis > Geum aleppicum > Urtica dioica
Floating & Submerged		0 None	

Stand Composition 1566

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Populus tremuloides > Fraxinus nigra
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	Populus tremuloides

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1566

Community Age	Mid-Age
Ecosite	Dry-fresh poplar- white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry-fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1209

Notes

Dead

Location

Latitude:45.849443,Longitude:-80.574222,Altitude:188.8,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:06/17/2015 08:24:32 EDT



Species	Tally	ID
Populus tremuloides	10.00	2307
Prunus virginiana	1.00	2310
Ulmus americana	1.00	2313
Fraxinus nigra	3.00	2316

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1197
Location	Latitude:45.849522,Longitude:-80.574317,Altitude:181.6,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:06/17/2015 08:00:47 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Oh
Horizon 2	3.00		SC
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	2
Drainage	7
Effective Texture	SC

Additional Notes

Disturbance within study area. Some open areas dominated by shrubs and young Populus tremuloides.



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M4	Field Crew	NATALIYA & CASEY	1569

Feature ID	ELC-S-M4(745)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/17/2015 8:29:54 AM	Precipitation	0		
End Date	6/17/2015 8:55:31 AM	Cloud Cover	95.00		

Polygon Description 1569

System	Terrestrial
Site	Surficial Deposit
History	Cultural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Terrace
Plant Form	Graminoid,Forb
Community	Meadow

Stand Species 1569

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		3 25 - 60%	Ribes glandulosa = Rubus idaeus > Thalictrum poligamum> Heracleum mantegazzianum
Groundcover	7 <0.2m	4 > 60%	Calamagrostis canadensis > Arctium minus > Clematis virginiana > Impatiens capensis
Floating & Submerged		0 None	

Stand Composition 1569

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1569

Community Age	Young
Ecosite	Organic Thicket Swamp
Ecosite Code	SWT3
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1200

Location	Latitude:45.850092,Longitude:-80.574416,Altitude:188.3,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:06/17/2015 08:32:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	22.00
Slope Aspect (deg)	12.00	Gley	0.00
Slope Percent	3.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Oh
Horizon 2	3.00		SC
Horizon 3	0.00		
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	7
Effective Texture	SC

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M4	Field Crew	NATALIYA & CASEY	1572

Feature ID	ELC-S-M4(738)	Congruent Features	M4(742), M4(743), M4(737)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	6/17/2015 9:15:31 AM	Precipitation	0		
End Date	6/17/2015 9:47:56 AM	Cloud Cover	100.00		

Polygon Description 1572

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Mixed
Community	Forest

Stand Species 1572

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides > Acer rubrum > Fraxinus nigra > Abies balsamea
Sub Canopy	3 >2-6m	4 > 60%	Populus tremuloides > Abies balsamea > Acer rubrum > Fraxinus nigra
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta > Populus tremuloides > Abies balsamea
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadensis > Cornus canadensis > Trientalis borealis > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1572

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Populus tremuloides > Abies balsamea
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1572

Community Age	Mid-Age
Ecosite	Fresh-moist poplar-white birch mixed forest
Ecosite Code	FOM8
Vegetation Type	Fresh - moist poplar mixed forest
Vegetation Type Code	FOM8-1
Inclusion	
Inclusion Code	
Complex	Dry acidic open rock barren
Complex Code	RBO3-1

Tree Tally 1212

Notes

Location

Latitude:45.850339,Longitude:-80.570569,Altitude:190.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/17/2015 09:35:04 EDT



Dead 2.00

Species	Tally	ID
Populus tremuloides	7.00	2319
Abies balsamea	8.00	2322
Fraxinus nigra	1.00	2325

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1203
Location	Latitude:45.85023,Longitude:-80.570479,Altitude:183.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/17/2015 09:19:15 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	15.00
Slope Aspect (deg)	9.00	Gley	0.00
Slope Percent	1.00	Water Table	30.00
Slope Length (m)	10.00	Carbonates	0.00
		Bedrock	78.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Oh
Horizon 2	5.00		SCL
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	SCL

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M4	Field Crew	NATALIYA & CASEY	1575

Feature ID	ELC-S-M4(747)	Congruent Features	M4(741), M4(739)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	6/17/2015 9:59:20 AM	Precipitation	0		
End Date	6/17/2015 10:19:33 AM	Cloud Cover	75.00		

Polygon Description 1575

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte
Community	Barren

Stand Species 1575

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	Juniperus communis = Vaccinium angustifolium > Rubus idaeus
Shrub	6 >0.2-0.5m	1 0% - 10%	
Groundcover	7 <0.2m	3 25 - 60%	Lichen sp. > polytrichum sp. > Danthonia compressa > Deschampsia flexuosa
Floating & Submerged		0 None	

Stand Composition 1575

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1575
Community Age	Mid-Age
Ecosite	Acidic open rock barren
Ecosite Code	RBO3
Vegetation Type	Dry acidic open rock barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M4	Field Crew	NATALIYA & CASEY	1578

Feature ID	ELC-S-M4(748)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	6/17/2015 10:19:43 AM	Precipitation	0		
End Date	6/17/2015 10:44:05 AM	Cloud Cover	80.00		

Polygon Description 1578

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 1578

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	5 >0.5-1m	1 0% - 10%	Salix petiolaris = Alnus incana > Rubus idaeus > Larix laricina
Groundcover	6 >0.2-0.5m	4 > 60%	Carex crinita > Onoclea sensibilis > Calamagrostis canadensis
Floating & Submerged		0 None	

Stand Composition 1578

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana > Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1578
Community Age	Young	
Ecosite	Organic shallow marsh	
Ecosite Code	MAS3	
Vegetation Type	Broad-leaved sedge organic shallow marsh	
Vegetation Type Code	MAS3-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1206

Location	Latitude:45.851129,Longitude:-80.572113,Altitude:190.9,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/17/2015 10:22:41 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	3.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	5.00		Om
Horizon 3	60.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M52	Field Crew	NATALIYA & CASEY	1581

Feature ID	ELC-S-M52(801)	Congruent Features	M52(802), M52(805)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/17/2015 11:31:35 AM	Precipitation	0		
End Date	6/17/2015 12:00:50 PM	Cloud Cover	85.00		

Polygon Description 1581

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Forest

Stand Species 1581

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Populus tremuloides > Acer rubrum > Betula papyrifera
Sub Canopy	3 >2-6m	4 > 60%	Acer rubrum > Populus tremuloides > Betula papyrifera > Quercus rubra
Shrub	4 >1-2m	2 10 - 25%	Corylus cornuta > Quercus rubra > Acer rubrum
Groundcover	6 >0.2-0.5m	1 0% - 10%	Aralia nudicaulis > Maianthemum canadensis > Trientalis borealis > Aster macrophyllus
Floating & Submerged		0 None	

Stand Composition 1581

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum > Betula papyrifera > Quercus rubra
Species Dominance 10-24	Populus tremuloides > Acer rubrum
Species Dominance 25-50	Populus tremuloides > Acer rubrum
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1581

Community Age	Mid-Age
Ecosite	Dry-fresh poplar- white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry-fresh poplar deciduous forest
Vegetation Type Code	FOD3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1215

Notes

Dead

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:



Species	Tally	ID
Acer rubrum	7.00	2328
Betula papyrifera	5.00	2331
Populus tremuloides	3.00	2334

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1209
Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	0.00
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	0.00
		Bedrock	0.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	0.00		
Horizon 3	3.00		SiS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	3
Effective Texture	SiS

Additional Notes

GPS unit died before doing soil pit and tree tally. Coordinates for both are as follows.45° 51 36.9 N80° 34 54.4 W



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M52	Field Crew	NATALIYA & CASEY	1584

Feature ID	ELC-S-M52(803)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/17/2015 12:18:17 PM	Precipitation	0		
End Date	6/17/2015 12:40:27 PM	Cloud Cover	80.00		

Polygon Description 1584

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Acidic Bedrock
Topographic Feature	Lacustrine
Plant Form	Submerged
Community	Pond

Stand Species 1584

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		0 None	
Groundcover		0 None	
Floating & Submerged		2 10 - 25%	Callitriche sp.

Stand Composition 1584

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1584
Community Age	Young
Ecosite	Submereged shallow aquatic
Ecosite Code	SAS1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Open water pond appears to have seasonally fluctuating water levels due to lack of aquatic vegetation both submerged and floating.



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M52	Field Crew	NATALIYA & CASEY	1587

Feature ID	ELC-S-M52(804)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/17/2015 12:48:12 PM	Precipitation	0		
End Date	6/17/2015 1:02:40 PM	Cloud Cover	90.00		

Polygon Description 1587

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Sand Dune
Plant Form	Graminoid,Forb
Community	Barren

Stand Species 1587

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub		3 25 - 60%	Diervilla lonicera > Rubus pubescens > Pteridium aquilinum > Juniperus communis
Groundcover	7 <0.2m	2 10 - 25%	Grass sp > Carex siccata > Rumex acitisela> Poa sp.
Floating & Submerged		0 None	

Stand Composition 1587

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1587
Community Age	Young
Ecosite	Shrub sand barren
Ecosite Code	SBS1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M52	Field Crew	NATALIYA & CASEY	1590

Feature ID	ELC-S-M52(797)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/17/2015 1:37:57 PM	Precipitation	0		
End Date	6/17/2015 1:52:27 PM	Cloud Cover	90.00		

Polygon Description 1590

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 1590

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	4 > 60%	Alnus incana >Nemopanthus mucronatus
Groundcover	6 >0.2-0.5m	4 > 60%	Carex lacustrine> Carex tenuiflora > Calla palustris > Sphagnum. Sp.
Floating & Submerged		0 None	

Stand Composition 1590

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1590
Community Age	Mid-Age	
Ecosite	Mineral Thicket Swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder Mineral Thicket Swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1212

Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	20.00		Om
Horizon 3	50.00		SC
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	7
Effective Texture	SC

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M12	Field Crew	NATALIYA & CASEY	1593

Feature ID	ELC-S-M12(779)	Congruent Features	M12(579)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/18/2015 10:55:21 AM	Precipitation	0		
End Date	6/18/2015 11:24:53 AM	Cloud Cover	100.00		

Polygon Description 1593

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Coniferous
Community	Barren

Stand Species 1593

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana
Sub Canopy	3 >2-6m	2 10 - 25%	Pinus banksiana > Acer rubrum
Shrub	5 >0.5-1m	2 10 - 25%	Juniperus communis > Pinus banksiana > Acer rubrum
Groundcover	6 >0.2-0.5m	3 25 - 60%	Vaccinium angustifolium > Lichen sp.
Floating & Submerged		0 None	

Stand Composition 1593

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana
Species Dominance 10-24	Pinus banksiana
Species Dominance 25-50	Pinus banksiana
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1593

Community Age	Mid-Age
Ecosite	Acidic open rock barren
Ecosite Code	RB03
Vegetation Type	Dry acidic open rock barren
Vegetation Type Code	RBO3-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1218

Notes		Location	Latitude:45.848922,Longitude:-80.621538,Altitude:188.8,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:08:32 EDT
Dead			



Species	Tally	ID
Pinus banksiana	5.00	2337

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M12	Field Crew	NATALIYA & CASEY	1596

Feature ID	ELC-S-M12(778)	Congruent Features	M12(775)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/18/2015 11:25:01 AM	Precipitation	0		
End Date	6/18/2015 11:49:39 AM	Cloud Cover	100.00		

Polygon Description 1596

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 1596

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	4 >1-2m	3 25 - 60%	Alnus incana > Nemopanthus mucronatus > Spiraea alba
Groundcover	6 >0.2-0.5m	3 25 - 60%	Carex stricta > Carex aquatilis > Cyperus microcarpus > Typha latifolia
Floating & Submerged		0 None	

Stand Composition 1596

	<10	10-24	25-50	>50
Size Class Analysis	A	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1596
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1215

Location	Latitude:45.849052,Longitude:-80.620865,Altitude:187.3,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:27:12 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	45.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	25.00		mS
Horizon 3	30.00		LfS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	6
Effective Texture	LfS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M12	Field Crew	NATALIYA & CASEY	1599

Feature ID	ELC-S-M12(774)	Congruent Features	M12(776)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/18/2015 11:50:23 AM	Precipitation	0		
End Date	6/18/2015 12:20:07 PM	Cloud Cover	100.00		

Polygon Description 1599

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Deciduous
Community	Forest

Stand Species 1599

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula papyrifera = Fraxinus nigra > Populus tremuloides > Acer rubrum
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum > Betula papyrifera = Fraxinus nigra > Populus tremuloides
Shrub	4 >1-2m	3 25 - 60%	Corylus cornuta > Nemopanthus mucronatus > Viburnum lentago > Acer rubrum
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Solidago canadensis > Carex intumescens > Rubus pubescens
Floating & Submerged		0 None	

Stand Composition 1599

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Acer rubrum > Fraxinus nigra
Species Dominance 10-24	Betula papyrifera = Fraxinus nigra > Acer rubrum
Species Dominance 25-50	Betula papyrifera > Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1599

Community Age	Mid-Age
Ecosite	Dry-Fresh poplar-white birch deciduous forest
Ecosite Code	FOD3
Vegetation Type	Dry-fresh white birch deciduous forest
Vegetation Type Code	FOD3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1221

Notes

Dead

Location

Latitude:45.848703,Longitude:-80.619947,Altitude:189.9,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:06/18/2015 12:06:38 EDT



Species	Tally	ID
Betula papyrifera	3.00	2340
Acer rubrum	2.00	2343
Fraxinus nigra	1.00	2346
Populus tremuloides	2.00	2349

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1218
Location	Latitude:45.848707,Longitude:-80.619937,Altitude:190.7,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:52:54 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	75.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	25.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Om
Horizon 2	5.00		Sl
Horizon 3	15.00		fS
Horizon 4			

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	fS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M24	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1602

Feature ID	ELC-S-M24(398)	Congruent Features	M24(297), M24(392), M24(171), M24(501), M24(698), M24 (238)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/18/2015 10:24:21 AM	Precipitation	0		
End Date	6/18/2015 10:43:15 AM	Cloud Cover	100.00		

Polygon Description 1602

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1602

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus banksiana > Betula papyrifera > Acer rubrum
Shrub	5 >0.5-1m	3 25 - 60%	Juniperus communis> Vaccinium angustifolium > Gaylussacia baccata
Groundcover	7 <0.2m	3 25 - 60%	Vladimir spp. > Polytrichum spp.> Deschampsia flexuousa
Floating & Submerged			

Stand Composition 1602

	<10	10-24	25-50	>50
Size Class Analysis	O	O	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana > Betula papyrifera > Acer rubrum
Species Dominance 10-24	Pinus banksiana > Betula papyrifera > Acer rubrum
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1602

Community Age	Mature
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack Pine Acidic Treed Rock Barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Leatherleaf - Forb shrub fen
Complex Code	FES1-4

Tree Tally 1224

Notes

Dead

Location

Latitude:45.830965,Longitude:-80.600494,Altitude:199.1,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:06/18/2015 10:41:55 EDT



Species	Tally	ID
Pinus banksiana	1.00	2352

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M24	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1605

Feature ID	ELC-S-M24(394)	Congruent Features	M24(251), M24(400), M24(207), M24(399)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/18/2015 11:16:17 AM	Precipitation	0		
End Date	6/18/2015 11:36:11 AM	Cloud Cover	100.00		

Polygon Description 1605

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1605

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Betula papyrifera > Acer rubrum> Pinus banksiana
Sub Canopy	3 >2-6m	1 0% - 10%	Acer rubrum> populus tremuloides
Shrub	2 >6-25m	4 > 60%	Alnus incana > Nemopanthus mucronatus > Spiraea alba> Viburnum cassinoides
Groundcover		4 > 60%	Carex crinita> Carex lacustris
Floating & Submerged		0 None	

Stand Composition 1605

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum > Populus tremuloides
Species Dominance 10-24	Acer rubrum > Populus tremuloides >Betula papyri
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1605
Community Age		
Ecosite	Mineral thicket swamp ecosite	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket Swamp type	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1221

Location	Latitude:45.831842,Longitude:-80.602763,Altitude:192.1,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:28:26 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	20.00
Slope Percent	0.00	Water Table	20.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Fibric organic
Horizon 2	45.00	40.00	Silty coarse sand
Horizon 3			
Horizon 4			

% Surface Stone	15.00
Moisture Regime	6
Drainage	6
Effective Texture	SiCS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M24	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1608

Feature ID	ELC-S-M24(393)	Congruent Features	M24(205), M24(696), M24(174)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/18/2015 11:52:11 AM	Precipitation	1		
End Date	6/18/2015 12:20:28 PM	Cloud Cover	100.00		

Polygon Description 1608

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Deciduous
Community	Forest

Stand Species 1608

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum > Betula papyrifera > populus grandidenta > Pinus banksiana
Sub Canopy	2 >6-25m	4 > 60%	Acer rubrum> Betula papyrifera
Shrub	3 >2-6m	3 25 - 60%	Cory lush cornuta > Vaccinium angustifolium
Groundcover	4 >1-2m	4 > 60%	Pteridium aquilinum > Aralia nudicaulis > Mainthemum canadense
Floating & Submerged		0 None	

Stand Composition 1608

	<10	10-24	25-50	>50
Size Class Analysis	A	A		N
Standing Snags	A	O	N	N
Deadfall / Logs	O		N	N

Species Dominance <10	Acer rubrum> populus tremuloides> Abies balsam
Species Dominance 10-24	Acer rubrum > populus grandidenta > Betula p
Species Dominance 25-50	Acer 4ubri,> Betula papyrifera > populus grand
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1608
Community Age	Mature	
Ecosite	Dry- Fresh Sugar Maple Deciduous Forest	
Ecosite Code	FOD5	
Vegetation Type	Dry-Fresh Sugar Maple- Red Maple Deciduous Forest	
Vegetation Type Code	FOD5-9	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1224
Pit ID	1	

Location	Latitude:45.832623,Longitude:-80.60378,Altitude:197.4,Speed:0.005144444443,Accuracy:1.8,Provider:gps,Time:06/18/2015 12:09:14 EDT	Notes	
		Depth to: (cm)	
Slope Position	2 Shoulder Slope	Mottles	
Slope Aspect (deg)	291.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	3.00	H
Horizon 2	120.00	64.00	SifS
Horizon 3			
Horizon 4			

% Surface Stone	64.00
Moisture Regime	1
Drainage	3
Effective Texture	SifS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes

No sugar maple only red maple but this option was the closest fit

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M24	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1611

Feature ID	ELC-S-M24(206)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/18/2015 12:26:45 PM	Precipitation	0		
End Date	6/18/2015 12:54:10 PM	Cloud Cover	100.00		

Polygon Description 1611

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 1611

	Height	Cover	Species Dominance
Canopy	4 >1-2m	1 0% - 10%	Larix laricina
Sub Canopy	4 >1-2m	1 0% - 10%	Larix laricina
Shrub	6 >0.2-0.5m	2 10 - 25%	Chamaedaphne calculata > Alnus incana
Groundcover	6 >0.2-0.5m	4 > 60%	Carex spp> Sphagnum spp > Vaccinium oxycoccus> potentilla palustris
Floating & Submerged		0 None	

Stand Composition 1611

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1611
Community Age		
Ecosite	Open Fen	
Ecosite Code	FEO1	
Vegetation Type	Beaked sedge open Fen type	
Vegetation Type Code	FEO1-5	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1227

Location	Latitude:45.832632,Longitude:-80.604666,Altitude:196.0,Speed:0.5504556,Accuracy:1.8,Provider:gps,Time:06/18/2015 12:33:35 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2	60.00	0.00	Om
Horizon 3	120.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	9
Drainage	7
Effective Texture	O

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M24	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1614

Feature ID	ELC-S-M24(28)	Congruent Features	M24(27)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2		
Start Date	6/18/2015 1:40:39 PM	Precipitation	0		
End Date	6/18/2015 1:57:35 PM	Cloud Cover	100.00		

Polygon Description 1614

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Rockland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Fen

Stand Species 1614

	Height	Cover	Species Dominance
Canopy	3 >2-6m	2 10 - 25%	Larix laricina > Picea mariana
Sub Canopy	4 >1-2m	2 10 - 25%	Larix laricina > Picea mariana
Shrub	6 >0.2-0.5m	4 > 60%	Chamaedaphne calculata > Kalmia angustifolia > Kalmia polifolia
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum spp > Carex spp > Eriophorum spp.
Floating & Submerged		0 None	

Stand Composition 1614

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Larix laricina > Picea mariana
Species Dominance 10-24	Larix laricina > Picea mariana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1614
Community Age		
Ecosite	Shrub fen	
Ecosite Code	FES1	
Vegetation Type	Leatherleaf -Forb shrub fen	
Vegetation Type Code	FES1-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1230

Location	Latitude:45.833905,Longitude:-80.607735,Altitude:202.0,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/18/2015 01:51:20 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	7.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M34	Field Crew	KASEY & JASON	1617

Feature ID	ELC-S-M34(708)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/18/2015 10:23:50 AM	Precipitation	1		
End Date	6/18/2015 11:01:49 AM	Cloud Cover	90.00		

Polygon Description 1617

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1617

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Pinustr
Sub Canopy	4 >1-2m	1 0% - 10%	Alnuinc
Shrub	5 >0.5-1m	4 > 60%	Carelaq > spirtom > myrigal
Groundcover	7 <0.2m	4 > 60%	Sphagnum >> potepal
Floating & Submerged		0 None	

Stand Composition 1617

	<10	10-24	25-50	>50
Size Class Analysis	R	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1617
Community Age	Mid-Age	
Ecosite	Mineral meadow marsh	
Ecosite Code	MAM2	
Vegetation Type	Narrow-leaved sedge mineral meadow marsh	
Vegetation Type Code	MAM2-5	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1233
Pit ID	1	

Location	Latitude:45.828899,Longitude:-80.645339,Altitude:179.8,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:06/18/2015 10:37:33 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	120.00		SifS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	SifS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M34	Field Crew	KASEY & JASON	1620

Feature ID	ELC-S-M36(363)	Congruent Features	M34(709), M34(599), M34(364)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/18/2015 11:19:51 AM	Precipitation	0		
End Date	6/18/2015 11:34:29 AM	Cloud Cover	100.00		

Polygon Description 1620

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1620

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Pinuban
Sub Canopy	3 >2-6m	4 > 60%	Pinuban
Shrub	6 >0.2-0.5m	4 > 60%	Vaccang > Junicom > descfle
Groundcover	7 <0.2m	4 > 60%	Cladina sp > moss sp > gaulpro > maiacan
Floating & Submerged		0 None	

Stand Composition 1620

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	A	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1623

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	Coniferous forest
Complex Code	FOC

Tree Tally 1227

Notes

Dead

Location

Latitude:45.831238,Longitude:-80.643318,Altitude:182.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:06/18/2015 11:32:50 EDT



Species	Tally	ID
Pinuban	3.00	2355

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M34	Field Crew	KASEY & JASON	1623

Feature ID	ELC-S-M34(74)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/18/2015 11:48:55 AM	Precipitation	1		
End Date	6/18/2015 12:16:01 PM	Cloud Cover	90.00		

Polygon Description 1623

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Marsh

Stand Species 1623

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	4 > 60%	Carelaq > spirtom
Groundcover	7 <0.2m	4 > 60%	Sphagnum > Violpal > hypeper
Floating & Submerged		1 0% - 10%	Nymphaea spp

Stand Composition 1623

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1620

Community Age	Mid-Age
Ecosite	Organic meadow marsh
Ecosite Code	MAM3
Vegetation Type	Narrow- leaved sedge organic medow marsh
Vegetation Type Code	MAM3-5
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1236

Location	Latitude:45.831243,Longitude:-80.642089,Altitude:179.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:06/18/2015 11:57:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	Of
Horizon 2	120.00		Om
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	O

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M6	Field Crew	ADAM, SARAH	1626

Feature ID	ELC-S-M6(795)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	6/17/2015 9:20:12 AM	Precipitation	0		
End Date	6/17/2015 11:12:18 AM	Cloud Cover	100.00		

Polygon Description 1626

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1626

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea > Acer rubrum > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum > Abies balsamea
Shrub	5 >0.5-1m		Pteridium aquilinum
Groundcover	7 <0.2m	3 25 - 60%	Maianthemum canadense > Cornus canadensis > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1626

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	A	O	R	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea > Acer rubrum
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1626

Community Age	Mature
Ecosite	Fresh-moist hemlock-hardwood mixed forest
Ecosite Code	FOM6
Vegetation Type	Fresh-moist hemlock-hardwood mixed forest
Vegetation Type Code	FOM6-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1230

Notes

Dead 3.00

Location

Latitude:45.847026,Longitude:-80.589729,Altitude:208.8,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/17/2015 09:46:57 EDT



Species	Tally	ID
Pinus strobus	11.00	2358
Abies balsamea	2.00	2361
Acer rubrum	1.00	2364
Tsuga canadensis	1.00	2367
Thuja occidentalis	1.00	2370
Populus grandidentata	1.00	2373

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1239
Location	Latitude:45.846999,Longitude:-80.589739,Altitude:205.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:06/17/2015 10:19:15 EDT	Notes	Aspect 345Did not hit bedrockDid not hit water table
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	45.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	2.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	7.00	0.00	Humus
Horizon 2	11.00	0.00	fS
Horizon 3	60.00		mS
Horizon 4			

% Surface Stone	5.00
Moisture Regime	3
Drainage	4
Effective Texture	mS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M6	Field Crew	SARAH RICHER ADAM MCCLELLAND	1629

Feature ID	ELC-S-M6(792)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	6/17/2015 11:23:08 AM	Precipitation	0		
End Date	6/17/2015 11:23:12 AM	Cloud Cover	100.00		

Polygon Description 1629

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Riverine
Plant Form	Graminoid,Forb,Bryophyte,Deciduous,Coniferous
Community	Fen

Stand Species 1629

	Height	Cover	Species Dominance
Canopy	2 >6-25m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	2 10 - 25%	Larix laricina>>Alnus incana
Shrub	4 >1-2m	1 0% - 10%	Alnus incana>Osmunda cinnamomea=Osmunda regalis >Typha latifolia
Groundcover	5 >0.5-1m	4 > 60%	Sphagnum spp=Carex tenuiflora>>Calla palustris
Floating & Submerged		0 None	

Stand Composition 1629

	<10	10-24	25-50	>50
Size Class Analysis	O	N	N	N
Standing Snags	R	R	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	Larix laricina >Alnus incana
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1629

Community Age	Mature
Ecosite	Open fen
Ecosite Code	FEO
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID: 1 (1242)

Location	Latitude:45.847376,Longitude:-80.589524,Altitude:198.4,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/18/2015 08:59:02 EDT	Notes	Aspect 110Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	5.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	110.00	0.00	Of
Horizon 2	10.00	0.00	SiS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Organic

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes

Graminoid open fen ecosite



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M6	Field Crew	ADAM, SARAH	1632

Feature ID	ELC-S-M6(796)	Congruent Features	M6(794)		
Project Number	60341251	Air Temp. (degC)	21.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/17/2015 1:09:36 PM	Precipitation	0		
End Date	6/17/2015 3:05:09 PM	Cloud Cover	100.00		

Polygon Description 1632

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Deciduous
Community	Swamp

Stand Species 1632

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Betula alleghaniensis > Fraxinus nigra = Acer rubrum = Acer saccharum
Sub Canopy	3 >2-6m	1 0% - 10%	Betula alleghaniensis = Fraxinus nigra = Acer saccharum
Shrub	5 >0.5-1m	2 10 - 25%	Osmunda claytoniana > Corylus cornuta
Groundcover	6 >0.2-0.5m	3 25 - 60%	Aralia nudicaulis > Cornus canadensis = Maianthemum canadense
Floating & Submerged		0 None	

Stand Composition 1632

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	O	O	N

Species Dominance <10	Betula alleghaniensis = Fraxinus nigra
Species Dominance 10-24	Acer rubrum=Acer saccharum > Betula alleghaniensis
Species Dominance 25-50	Betula alleghaniensis > Acer rubrum
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1632

Community Age	Mid-Age
Ecosite	Maple mineral mixed swamp
Ecosite Code	SWM2
Vegetation Type	Red maple - conifer mineral mixed swamp
Vegetation Type Code	SWM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1233

Notes

Location

Latitude:45.847362,Longitude:-80.591615,Altitude:204.8,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:06/17/2015 01:42:47 EDT



Dead 2.00

Species	Tally	ID
Betula alleghaniensis	5.00	2376
Acer rubrum	5.00	2379
Abies balsamea	0.00	2382

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1245
Location	Latitude:45.847385,Longitude:-80.591574,Altitude:204.2,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/17/2015 01:58:35 EDT	Notes	Did not hit bedrock
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	40.00
Slope Aspect (deg)	15.00	Gley	
Slope Percent	1.00	Water Table	7.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2	35.00	0.00	LS
Horizon 3	100.00		LS
Horizon 4	120.00		SiL

% Surface Stone	0.00
Moisture Regime	4
Drainage	5
Effective Texture	LS

Additional Notes

Standing water in community

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M7	Field Crew	ADAM, SARAH	1635

Feature ID	ELC-S-M7(793)	Congruent Features	M6(793)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	1		
Start Date	6/18/2015 11:42:00 AM	Precipitation	1		
End Date	6/18/2015 12:42:54 PM	Cloud Cover	100.00		

Polygon Description 1635

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1635

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea > Acer rubrum > Pinus strobus
Sub Canopy	3 >2-6m	2 10 - 25%	Abies balsamea > Acer rubrum
Shrub	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum
Groundcover	6 >0.2-0.5m		Cornus canadensis > Aralia nudicaulis > Medeola virginiana
Floating & Submerged		0 None	

Stand Composition 1635

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	R
Standing Snags	O	O	R	N
Deadfall / Logs	A	A	R	N

Species Dominance <10	Abies balsamea > Acer rubrum
Species Dominance 10-24	Acer rubrum > Abies balsamea
Species Dominance 25-50	Pinus strobus
Species Dominance >50	Pinus strobus

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1635

Community Age	Mature
Ecosite	Coniferous forest
Ecosite Code	FOC
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	Treed rock barren
Complex Code	RBT3

Tree Tally 1236

Notes

Location

Latitude:45.848869,Longitude:-80.597393,Altitude:195.1,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:06/18/2015 12:06:20 EDT



Dead 4.00

Species	Tally	ID
Pinus strobus	5.00	2385
Abies balsamea	2.00	2388
Betula papyrifera	1.00	2391
Populus grandidentata	0.00	2394
Acer rubrum	1.00	2397

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1248
Location	Latitude:45.848836,Longitude:-80.59739,Altitude:191.3,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:06/18/2015 11:50:47 EDT	Notes	Aspect 350Did not hit water table
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	13.00	0.00	SiS
Horizon 2	37.00	5.00	SiL
Horizon 3	60.00	2.00	SiL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	1
Drainage	3
Effective Texture	SiL

Additional Notes

similar to FOC3-1, but not dominated by hemlockDominated by balsam fir

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M21	Field Crew	NATALIYA & CASEY	1638

Feature ID	ELC-S-M21(197)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	6/19/2015 10:34:22 AM	Precipitation	0		
End Date	6/19/2015 10:53:07 AM	Cloud Cover	50.00		

Polygon Description 1638

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Fen

Stand Species 1638

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Larix laricina
Sub Canopy	3 >2-6m	3 25 - 60%	Larix laricina > Pinus banksiana
Shrub	5 >0.5-1m	2 10 - 25%	Larix laricina > Chamaedaphne calyculata > Kalmia polifolia >Alnus incana
Groundcover	7 <0.2m	3 25 - 60%	Sphagnum sp. >Carex oligosperma > Carex stricta > Thelypteris palustris
Floating & Submerged		0 None	

Stand Composition 1638

	<10	10-24	25-50	>50
Size Class Analysis	A	O	N	N
Standing Snags	O	R	N	N
Deadfall / Logs	O	R	N	N

Species Dominance <10	Larix laricina
Species Dominance 10-24	Larix laricina > Pinus banksiana
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1638

Community Age	Mid-Age
Ecosite	Treed fen
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1239

Notes		Location	Latitude:45.828864,Longitude:-80.617045,Altitude:189.9,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:06/19/2015 10:48:08 EDT
Dead			



Species	Tally	ID
Larix laricina	1.00	2400

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1251
Location	Latitude:45.828877,Longitude:-80.616982,Altitude:187.8,Speed:0.11832222,Accuracy:1.8,Provider:gps,Time:06/19/2015 10:36:31 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	2.00
Slope Length (m)	0.00	Carbonates	
		Bedrock	90.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	0.00	0.00	Of
Horizon 2	35.00		Om
Horizon 3	50.00		Oh
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Oh

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M08	Field Crew	KRISTAN WASHBURN. AND AYESHA PRASAD	1641

Feature ID	ELC-S-M8(40)	Congruent Features	M08(783), M08(789)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	6/19/2015 9:29:54 AM	Precipitation	0		
End Date	6/19/2015 10:22:32 AM	Cloud Cover	10.00		

Polygon Description 1641

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Forest

Stand Species 1641

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Picea mariana > pinus strobus> Betula papyrifera
Sub Canopy	2 >6-25m	3 25 - 60%	Picea mariana > Populus tremuloides> Acer rubrum
Shrub	3 >2-6m	2 10 - 25%	Vibernum cassinoides> Nemopanthus mucronatus > Alnus incana
Groundcover	6 >0.2-0.5m	3 25 - 60%	Cornus canadensis> Maianthemum canadense > Pteridium aquilinum
Floating & Submerged		0 None	

Stand Composition 1641

	<10	10-24	25-50	>50
Size Class Analysis	A	A	A	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum> Populus tremuloides > Fraxinus negra
Species Dominance 10-24	Pinus banksiana > Pinus strobus > Betula papyrifer
Species Dominance 25-50	Pinus banksiana > Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1641

Community Age	Mid-Age
Ecosite	Coniferous Forest
Ecosite Code	FOC
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1242

Notes

Dead

Location

Latitude:45.847497,Longitude:-80.609367,Altitude:178.5,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:06/19/2015 09:39:08 EDT



Species	Tally	ID
Pinus banksiana	6.00	2403
Pinus strobus	1.00	2406

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1254
Location	Latitude:45.847491,Longitude:-80.609318,Altitude:181.1,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:06/19/2015 09:42:05 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	25.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	2.00	Water Table	60.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	H
Horizon 2	120.00		mS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	mS

Additional Notes

Black spruce dominant coniferous forest. there is no option for this under ecosites. Left it at community level

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M08	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1644

Feature ID	ELC-S-M8(787)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	6/19/2015 10:00:43 AM	Precipitation	0		
End Date	6/19/2015 11:27:54 AM	Cloud Cover	10.00		

Polygon Description 1644

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Deciduous
Community	Swamp

Stand Species 1644

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Betula papyrifera > Acer rubrum > Fraxinus nigra
Sub Canopy	2 >6-25m	3 25 - 60%	Fraxinus nigra > Betula papyrifera
Shrub	3 >2-6m	3 25 - 60%	Nemopanthus mucronatus > Alnus incana > Acer rubrum
Groundcover	5 >0.5-1m	4 > 60%	Trientalis borealis > Dryopteris carthusiana > Onoclea sensibilis
Floating & Submerged		0 None	

Stand Composition 1644

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	O	R	N

Species Dominance <10	Fraxinus nigra > Betula papyrifera
Species Dominance 10-24	Betula papyrifera > Acer Rubrum> Fraxinus nigra
Species Dominance 25-50	Betula papyrifera > Acer rubrum
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1644

Community Age	
Ecosite	Ash mineral deciduous swamp
Ecosite Code	SWD2
Vegetation Type	Black ash mineral deciduous swamp
Vegetation Type Code	SWD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1245

Notes

Dead

Location

Latitude:45.847728,Longitude:-80.606233,Altitude:212.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:06/19/2015 10:15:22 EDT



Species	Tally	ID
Betula papyrifera	3.00	2409
Acer rubrum	2.00	2412
Fraxinus nigra	3.00	2415

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1257
Location	Latitude:45.847736,Longitude:-80.606228,Altitude:214.2,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:06/19/2015 10:12:02 EDT	Notes	
		Depth to: (cm)	
Slope Position	6 Level	Mottles	15.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	15.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	H
Horizon 2	120.00	0.00	mS
Horizon 3			
Horizon 4			

% Surface Stone	2.00
Moisture Regime	6
Drainage	5
Effective Texture	mS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M08	Field Crew	KRISTAN WASHBURN AND AYESHA PRASAD	1647

Feature ID	ELC-S-M8(788)	Congruent Features	M08(790), M08(688),M08(668)		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	6/19/2015 10:38:46 AM	Precipitation	0		
End Date	6/19/2015 11:07:19 AM	Cloud Cover	5.00		

Polygon Description 1647

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Coniferous
Community	Forest

Stand Species 1647

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinus strobus> Acer rubrum> Pinus banksiana > Quercus rubra > Populus tremuloides
Sub Canopy	2 >6-25m	3 25 - 60%	Pinus strobus > Acer rubrum > Betula papyrifera
Shrub	3 >2-6m	3 25 - 60%	Vaccinium angustifolium > Viburnum cassinoides
Groundcover	6 >0.2-0.5m	2 10 - 25%	Maianthemum canadense > Cornus canadensis > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1647

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	O	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum> Betula papyrifera
Species Dominance 10-24	Pinus strobus >Acer rubrum> Betula papyrifera
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1647

Community Age	
Ecosite	Dry-fresh white pine coniferous forest
Ecosite Code	FOC1
Vegetation Type	Dry-fresh white pine red pine coniferous forest
Vegetation Type Code	FOC1-2
Inclusion	
Inclusion Code	
Complex	Jack pine acidic treed rock barren
Complex Code	RBT3-2

Tree Tally 1248

Notes		Location	
		Latitude:45.848204,Longitude:-80.603191,Altitude:199.5,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:06/19/2015 10:50:44 EDT	
Dead			

Species	Tally	ID
Pinus strobus	2.00	2418
Betula papyrifera	1.00	2421
Acer rubrum	1.00	2424

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1260
Location	Latitude:45.848204,Longitude:-80.603196,Altitude:198.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:06/19/2015 10:52:12 EDT	Notes	
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	
Slope Aspect (deg)	181.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	3.00	H
Horizon 2	40.00	13.00	SifS
Horizon 3	120.00	16.00	fS
Horizon 4			

% Surface Stone	20.00
Moisture Regime	1
Drainage	2
Effective Texture	fS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M08	Field Crew	KRISTAN WASHBURN ANS AYESHA PRASAD	1650

Feature ID	ELC-S-M8(791)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	2		
Start Date	6/19/2015 11:10:47 AM	Precipitation	0		
End Date	6/19/2015 11:23:44 AM	Cloud Cover	10.00		

Polygon Description 1650

System	Wetland
Site	Surficial Deposit
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Rockland
Plant Form	Forb,Lichen,Bryophyte,Deciduous
Community	Marsh

Stand Species 1650

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina > Pinus strobus
Sub Canopy		0 None	
Shrub	3 >2-6m	2 10 - 25%	Nemopanthus mucronatus > Alnus incana > Vinernum cassinoides
Groundcover	6 >0.2-0.5m	4 > 60%	Carex spp. > Calla palustris > Iris versicolor
Floating & Submerged		0 None	

Stand Composition 1650

	<10	10-24	25-50	>50
Size Class Analysis	R	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1650
Community Age		
Ecosite	Mineral Shallow Marsh	
Ecosite Code	MAS2	
Vegetation Type	Broad leaved sedge mineral shallow Marsh	
Vegetation Type Code	MAS2-4	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description		1263
Pit ID	1	

Location	Latitude:45.848213,Longitude:-80.60236,Altitude:191.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/19/2015 11:17:46 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	0.00
Slope Percent	2.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	120.00	0.00	mS
Horizon 2		0.00	
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	6
Effective Texture	mS

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1653

Feature ID	ELC-S-M13(109)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/19/2015 9:05:10 AM	Precipitation	0		
End Date	6/19/2015 9:31:44 AM	Cloud Cover	20.00		

Polygon Description 1653

System	Aquatic
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Graminoid,Deciduous
Community	Pond

Stand Species 1653

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Spirtom > grass spp > carebru
Groundcover		0 None	
Floating & Submerged		0 None	

Stand Composition 1653

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1653
Community Age	Pioneer
Ecosite	Shallow aquatic
Ecosite Code	SA
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Was recently damed judging by shrub and grass cover



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1656

Feature ID	ELC-S-M13(108)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/19/2015 9:41:22 AM	Precipitation	0		
End Date	6/19/2015 10:09:44 AM	Cloud Cover	10.00		

Polygon Description 1656

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Rolling Upland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1656

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acerrub
Sub Canopy	3 >2-6m	4 > 60%	Acerrub
Shrub	5 >0.5-1m	4 > 60%	Pteraqu > dierlon > acerrub
Groundcover	7 <0.2m	4 > 60%	Triebor = Corncan
Floating & Submerged		0 None	

Stand Composition 1656

	<10	10-24	25-50	>50
Size Class Analysis	O	A	O	N
Standing Snags	R	R	R	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1656

Community Age	Mature
Ecosite	Dry - fresh oak - maple -hickory deciduous forest
Ecosite Code	FOD2
Vegetation Type	Dry - fresh oak - red maple deciduous forest
Vegetation Type Code	FOD2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1251

Notes

Location

Latitude:45.845247,Longitude:-80.628987,Altitude:190.6,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:06/19/2015 10:05:10 EDT



Dead 1.00

Species	Tally	ID
Acerrub	6.00	2427
Querrub	1.00	2430
Betupap	4.00	2433
Poputre	1.00	2436

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1266
Location	Latitude:45.84528,Longitude:-80.628953,Altitude:192.0,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:06/19/2015 10:00:08 EDT	Notes	
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	40.00
Slope Aspect (deg)	0.00	Gley	
Slope Percent	5.00	Water Table	30.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	45.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	15.00	0.00	Of
Horizon 2	40.00	0.00	SifS
Horizon 3	45.00		CL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	SifS

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1659

Feature ID	ELC-S-M13(523)	Congruent Features	M13(584), M13(681), M13(686)		
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/19/2015 10:25:20 AM	Precipitation	0		
End Date	6/19/2015 10:38:29 AM	Cloud Cover	10.00		

Polygon Description 1659

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Tableland
Plant Form	Graminoid,Forb,Lichen,Bryophyte,Coniferous
Community	Barren

Stand Species 1659

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Pinuban
Sub Canopy	3 >2-6m	3 25 - 60%	Pinuban
Shrub	6 >0.2-0.5m	3 25 - 60%	Vaccang > Junicom > descfle
Groundcover	7 <0.2m	4 > 60%	Cladina sp >
Floating & Submerged		0 None	

Stand Composition 1659

	<10	10-24	25-50	>50
Size Class Analysis	A	O	R	N
Standing Snags	O	O	R	N
Deadfall / Logs	O	A	R	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1659

Community Age	Mid-Age
Ecosite	Acidic treed rock barren
Ecosite Code	RBT3
Vegetation Type	Jack pine acidic treed rock barren
Vegetation Type Code	RBT3-2
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally	1254

Notes		Location	Latitude:45.843988,Longitude:-80.629289,Altitude:200.4,Speed:0.14404444,Accuracy:1.8,Provider:gps,Time:06/19/2015 10:35:30 EDT
Dead	2.00		



Species	Tally	ID
Pinuban	2.00	2439

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1662

Feature ID	ELC-S-M13(43)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	6/19/2015 10:53:25 AM	Precipitation	0		
End Date	6/19/2015 11:10:06 AM	Cloud Cover	20.00		

Polygon Description 1662

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Lacustrine
Plant Form	Submerged,Floating-LVD,Graminoid
Community	Pond

Stand Species 1662

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub	6 >0.2-0.5m	2 10 - 25%	Carelas
Groundcover		0 None	
Floating & Submerged		4 > 60%	Brassch > Nympodo > potamogeton sp > myriophyllum sp

Stand Composition 1662

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1662
Community Age	Mid-Age
Ecosite	Floating leaved shallow aquatic
Ecosite Code	SAF1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1665

Feature ID	ELC-S-M13(107)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	3		
Start Date	6/19/2015 11:14:05 AM	Precipitation	0		
End Date	6/19/2015 11:29:35 AM	Cloud Cover	15.00		

Polygon Description 1665

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb
Community	Marsh

Stand Species 1665

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy		0 None	
Shrub			Carelas > chamcal > carelaq
Groundcover		0 None	
Floating & Submerged		0 None	

Stand Composition 1665

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1665
Community Age	Mid-Age
Ecosite	Bedrock shallow marsh
Ecosite Code	MAS1
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

deep water and bedrock where ever we could access to get a soil sample.



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M13	Field Crew	KASEY & JASON	1668

Feature ID	ELC-S-M13(163)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	1		
Start Date	6/19/2015 11:36:44 AM	Precipitation	0		
End Date	6/19/2015 11:57:28 AM	Cloud Cover	10.00		

Polygon Description 1668

System	Wetland
Site	Shallow Water
History	Natural
Cover	Open
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte
Community	Swamp

Stand Species 1668

	Height	Cover	Species Dominance
Canopy		0 None	
Sub Canopy	4 >1-2m	4 > 60%	Alnuinc
Shrub	5 >0.5-1m	4 > 60%	Carelaq > alnuinc > osmureg
Groundcover	7 <0.2m	3 25 - 60%	Sphagnum >> hypeper > callpal
Floating & Submerged		0 None	

Stand Composition 1668

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	N	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1668
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1269

Location	Latitude:45.843154,Longitude:-80.629962,Altitude:193.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:06/19/2015 11:40:21 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	0.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	20.00		Oh
Horizon 3	120.00		CL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	8
Drainage	8
Effective Texture	CL

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M29	Field Crew	ADAM, SARAH	1671

Feature ID	ELC-S-M29(30)	Congruent Features	M29(421)		
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/18/2015 2:11:08 PM	Precipitation	0		
End Date	6/18/2015 3:21:26 PM	Cloud Cover	100.00		

Polygon Description 1671

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 1671

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum > Betula papyrifera > Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Acer rubrum
Shrub	4 >1-2m	3 25 - 60%	Alnus incana = Viburnum cassinoides = Ilex verticillata
Groundcover	7 <0.2m	3 25 - 60%	Carex lacustris > Rubus pubescens > Cornus canadensis
Floating & Submerged		0 None	

Stand Composition 1671

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	N
Standing Snags	R	R	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Acer rubrum > Betula papyrifera
Species Dominance 10-24	Acer rubrum = Betula papyrifera
Species Dominance 25-50	Acer rubrum > Betula papyrifera
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1671
Community Age	Mid-Age	
Ecosite	Maple mineral deciduous swamp	
Ecosite Code	SWD3	
Vegetation Type	Red maple mineral deciduous swamp	
Vegetation Type Code	SWD3-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Tree Tally 1257

Notes

Dead 1.00

Location

Latitude:45.840719,Longitude:-80.591073,Altitude:200.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:06/18/2015 02:31:03 EDT



Species	Tally	ID
Acer rubrum	5.00	2442
Betula papyrifera	2.00	2445
Populus tremuloides	2.00	2448

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1272
Location	Latitude:45.840677,Longitude:-80.591088,Altitude:204.0,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:06/18/2015 02:51:43 EDT	Notes	Aspect 190Found sand layer below 4th horizon, may have fallen in from upper layerDid not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	12.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	50.00		LS
Horizon 3	85.00		S
Horizon 4	102.00	0.00	SiCL

% Surface Stone	0.00
Moisture Regime	2
Drainage	3
Effective Texture	SL

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M29	Field Crew	ADAM, SARAH	1674

Feature ID	ELC-S-M29(667)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/18/2015 4:04:48 PM	Precipitation	0		
End Date	6/18/2015 4:23:31 PM	Cloud Cover	100.00		

Polygon Description 1674

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Forb,Deciduous,Coniferous
Community	Swamp

Stand Species 1674

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Abies balsamea >> Acer rubrum = Pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Abies balsamea > Acer rubrum = Viburnum cassinoides
Shrub	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum > Viburnum cassinoides
Groundcover	7 <0.2m	4 > 60%	Cornus canadensis > Maianthemum canadense > Aralia nudicaulis
Floating & Submerged		0 None	

Stand Composition 1674

	<10	10-24	25-50	>50
Size Class Analysis	A	A	O	N
Standing Snags	O	O	R	R
Deadfall / Logs	O	O	O	N

Species Dominance <10	Abies balsamea
Species Dominance 10-24	Abies balsamea > Acer rubrum
Species Dominance 25-50	Pinus strobus
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1674

Community Age	Mature
Ecosite	Maple mineral mixed swamp
Ecosite Code	SWM2
Vegetation Type	Red maple - conifer mineral mixed swamp
Vegetation Type Code	SWM2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1260

Notes

Location

Latitude:45.842617,Longitude:-80.588976,Altitude:197.7,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:06/18/2015 04:08:05 EDT



Dead 3.00

Species	Tally	ID
Abies balsamea	5.00	2451
Pinus strobus	8.00	2454
Acer rubrum	2.00	2457
Populus grandidentata	1.00	2460
Tsuga canadensis	1.00	2463

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1275
Location	Latitude:45.842616,Longitude:-80.588966,Altitude:198.0,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:06/18/2015 04:19:53 EDT	Notes	Aspect 160
		Depth to: (cm)	
Slope Position	4 Foot Slope	Mottles	
Slope Aspect (deg)	100.00	Gley	
Slope Percent	1.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	56.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Oh
Horizon 2	56.00	0.00	cS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	0
Drainage	1
Effective Texture	cS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M29	Field Crew	ADAM, TOM	1677

Feature ID	ELC-S-M29(165)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/19/2015 9:17:22 AM	Precipitation	0		
End Date	6/19/2015 9:39:09 AM	Cloud Cover	0.00		

Polygon Description 1677

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Bryophyte,Deciduous
Community	Swamp

Stand Species 1677

	Height	Cover	Species Dominance
Canopy	3 >2-6m	1 0% - 10%	Larix laricina
Sub Canopy	3 >2-6m	4 > 60%	Alnus incana
Shrub	5 >0.5-1m	4 > 60%	Carex lacustris > Alnus incana
Groundcover	7 <0.2m	3 25 - 60%	Rubus idaeus > Sphagnum sp.
Floating & Submerged		0 None	

Stand Composition 1677

	<10	10-24	25-50	>50
Size Class Analysis	O	R	N	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	Larix laricina > Fraxinus nigra
Species Dominance 10-24	Larix laricina
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification

1677

Community Age	Mid-Age
Ecosite	Mineral thicket swamp
Ecosite Code	SWT2
Vegetation Type	Alder mineral thicket swamp
Vegetation Type Code	SWT2-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Soil Description

Pit ID	1

1278

Location	Latitude:45.840339,Longitude:-80.591291,Altitude:198.2,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:06/19/2015 09:32:59 EDT	Notes	Did not hit bedrockAspect 130
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	20.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	3.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Of
Horizon 2	80.00		SL
Horizon 3	100.00		SiL
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	5
Effective Texture	SiL

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M29	Field Crew	ADAM, TOM	1680

Feature ID	ELC-S-M29(495)	Congruent Features	M29(499)		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/19/2015 9:55:51 AM	Precipitation	0		
End Date	6/19/2015 10:20:25 AM	Cloud Cover	5.00		

Polygon Description 1680

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous,Coniferous
Community	Forest

Stand Species 1680

	Height	Cover	Species Dominance
Canopy	2 >6-25m	4 > 60%	Acer rubrum = Betula papyrifera > Pinus strobus = Picea glauca
Sub Canopy	3 >2-6m	2 10 - 25%	Acer rubrum > Picea glauca
Shrub	4 >1-2m	3 25 - 60%	Pteridium aquilinum > Corylus cornuta > Viburnum cassinoides
Groundcover	7 <0.2m	3 25 - 60%	Cornus canadensis > Coptis trifolia
Floating & Submerged		0 None	

Stand Composition 1680

	<10	10-24	25-50	>50
Size Class Analysis	O	O	O	N
Standing Snags	N	N	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Acer rubrum >> Picea mariana
Species Dominance 10-24	Acer rubrum >> Pinus strobus
Species Dominance 25-50	Betula papyrifera > Acer rubrum
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1680

Community Age	Mid-Age
Ecosite	Maple mineral deciduous swamp
Ecosite Code	SWD3
Vegetation Type	Red maple mineral deciduous swamp
Vegetation Type Code	SWD3-1
Inclusion	Jack pine acidic treed rock barren
Inclusion Code	RBT3-2
Complex	
Complex Code	

Tree Tally 1263

Notes

Dead

Location

Latitude:45.84048,Longitude:-80.592212,Altitude:193.3,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:06/19/2015 10:17:52 EDT



Species	Tally	ID
Acer rubrum	2.00	2466
Pinus resinosa	1.00	2469
Pinus strobus	1.00	2472
Picea glauca	1.00	2475
Betula papyrifera	1.00	2478

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1281
Location	Latitude:45.840451,Longitude:-80.592186,Altitude:191.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:06/19/2015 10:10:04 EDT	Notes	Did not hit bedrock
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	15.00
Slope Aspect (deg)	80.00	Gley	
Slope Percent	0.00	Water Table	10.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	8.00	0.00	Of
Horizon 2	120.00	80.00	fS
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	5
Effective Texture	fS

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M29	Field Crew	ADAM, TOM	1683

Feature ID	ELC-S-M29(166)	Congruent Features	M29(498), M29(701), M29(419), M29(700)		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/19/2015 10:33:06 AM	Precipitation	0		
End Date	6/19/2015 10:49:25 AM	Cloud Cover	10.00		

Polygon Description 1683

System	Terrestrial
Site	Bedrock
History	Natural
Cover	Treed
Substrate	Acidic Bedrock
Topographic Feature	Rockland
Plant Form	Lichen,Bryophyte,Deciduous,Coniferous
Community	Barren

Stand Species 1683

	Height	Cover	Species Dominance
Canopy	2 >6-25m	2 10 - 25%	Pinus banksiana > Pinus strobus
Sub Canopy	3 >2-6m	1 0% - 10%	Pinus strobus = Acer rubrum
Shrub	6 >0.2-0.5m	2 10 - 25%	Pteridium aquilinum
Groundcover	7 <0.2m	4 > 60%	Cladina rangiferina > Vaccinium angustifolium > Stereocaulon tomentosum
Floating & Submerged		0 None	

Stand Composition 1683

	<10	10-24	25-50	>50
Size Class Analysis	R	O	R	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	O	N	N

Species Dominance <10	Pinus banksiana = Acer rubrum
Species Dominance 10-24	Pinus banksiana >> Pinus strobus = Acer rubrum
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1683
Community Age	Mature
Ecosite	Acidic open rock barren
Ecosite Code	RBO3
Vegetation Type	Dry acidic open rock barren
Vegetation Type Code	RBT3-1
Inclusion	
Inclusion Code	
Complex	Treed Bog
Complex Code	BOT1

Tree Tally 1266

Notes

Dead 1.00

Location

Latitude:45.838748,Longitude:-80.594014,Altitude:210.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:06/19/2015 10:45:07 EDT



Species	Tally	ID
Pinus banksiana	0.00	2481
Pinus strobus	2.00	2484

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	ADAM, TOM	1686

Feature ID	ELC-S-M51(757a)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	6/19/2015 1:48:27 PM	Precipitation	0		
End Date	6/19/2015 2:16:22 PM	Cloud Cover	10.00		

Polygon Description 1686

System	Terrestrial
Site	Surficial Deposit
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Tableland
Plant Form	Forb,Deciduous
Community	Forest

Stand Species 1686

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Fraxinus nigra > Alnus incana
Shrub	5 >0.5-1m	3 25 - 60%	Pteridium aquilinum > Rubus idaeus
Groundcover	7 <0.2m	4 > 60%	Rubus idaeus
Floating & Submerged		0 None	

Stand Composition 1686

	<10	10-24	25-50	>50
Size Class Analysis	A	O	O	R
Standing Snags	N	N	N	N
Deadfall / Logs	A	O	N	N

Species Dominance <10	Fraxinus nigra
Species Dominance 10-24	Populus tremuloides > Fraxinus nigra
Species Dominance 25-50	Populus tremuloides > Pinus strobus
Species Dominance >50	Populus tremuloides

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1686

Community Age	Mid-Age
Ecosite	Fresh moist poplar sassafras deciduous forest
Ecosite Code	FOD8
Vegetation Type	Fresh moist poplar deciduous forest
Vegetation Type Code	FOD8-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1269

Notes

Dead

Location

Latitude:45.84726,Longitude:-80.566745,Altitude:192.9,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:06/19/2015 02:10:17 EDT



Species	Tally	ID
Fraxinus nigra	3.00	2487
Populus tremuloides	4.00	2490
Pinus strobus	0.00	2493
Salix sp.	1.00	2496

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1284
Location	Latitude:45.847253,Longitude:-80.566762,Altitude:191.1,Speed:0.36011112,Accuracy:1.75,Provider:gps,Time:06/19/2015 02:06:22 EDT	Notes	Aspect 290Did not hit bedrock at 80
		Depth to: (cm)	
Slope Position	3 Back Slope	Mottles	40.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	3.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	20.00	0.00	SiL
Horizon 2	40.00	0.00	SiC
Horizon 3	80.00		C
Horizon 4	0.00	0.00	

% Surface Stone	0.00
Moisture Regime	5
Drainage	5
Effective Texture	C

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	ADAM, TOM	1689

Feature ID	ELC-S-M51(757b)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/19/2015 2:22:57 PM	Precipitation	0		
End Date	6/19/2015 2:53:59 PM	Cloud Cover	10.00		

Polygon Description 1689

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Deciduous
Community	Swamp

Stand Species 1689

	Height	Cover	Species Dominance
Canopy	2 >6-25m	3 25 - 60%	Ulmus americana > Fraxinus nigra > Populus tremuloides
Sub Canopy	3 >2-6m	3 25 - 60%	Ulmus americana > Fraxinus nigra
Shrub	4 >1-2m	3 25 - 60%	Carex scoparia
Groundcover	6 >0.2-0.5m	3 25 - 60%	Rubus idaeus
Floating & Submerged		0 None	

Stand Composition 1689

	<10	10-24	25-50	>50
Size Class Analysis	O	A	R	N
Standing Snags	R	O	N	N
Deadfall / Logs	O	R	R	N

Species Dominance <10	Ulmus americana > Fraxinus nigra
Species Dominance 10-24	Ulmus americana > Fraxinus nigra
Species Dominance 25-50	Populus tremuloides
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1689

Community Age	Mid-Age
Ecosite	Fresh-moist lowland deciduous forest
Ecosite Code	FOD7
Vegetation Type	Fresh-moist white elm lowland deciduous forest
Vegetation Type Code	FOD7-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1272

Notes

Location

Latitude:45.846603,Longitude:-80.566635,Altitude:188.1,Speed:0.14918889,Accuracy:1.75,Provider:gps,Time:06/19/2015 02:53:04 EDT



Dead 9.00

Species	Tally	ID
Ulmus americana	5.00	2499
Populus tremuloides	1.00	2502

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1287
Location	Latitude:45.846596,Longitude:-80.566631,Altitude:189.1,Speed:0.3241,Accuracy:1.75,Provider:gps,Time:06/19/2015 02:46:10 EDT	Notes	Aspect 220Did not hit bedrock at 60
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	15.00
Slope Aspect (deg)	100.00	Gley	25.00
Slope Percent	0.00	Water Table	40.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	5.00	0.00	SiL
Horizon 2	60.00	100.00	C
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	6
Drainage	5
Effective Texture	C

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	S-M51	Field Crew	ADAM, TOM	1692

Feature ID	ELC-S-M51(757c)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3		
Start Date	6/19/2015 2:59:28 PM	Precipitation	0		
End Date	6/19/2015 3:18:34 PM	Cloud Cover	10.00		

Polygon Description 1692

System	Wetland
Site	Shallow Water
History	Natural
Cover	Shrub
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Deciduous
Community	Swamp

Stand Species 1692

	Height	Cover	Species Dominance
Canopy	3 >2-6m	4 > 60%	Alnus incana
Sub Canopy		0 None	
Shrub	5 >0.5-1m	4 > 60%	Reed canary grass
Groundcover	6 >0.2-0.5m	3 25 - 60%	Impatiens capensis > Ribes triste
Floating & Submerged		0 None	

Stand Composition 1692

	<10	10-24	25-50	>50
Size Class Analysis	N	N	N	N
Standing Snags		R	N	N
Deadfall / Logs	O	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification		1692
Community Age	Mid-Age	
Ecosite	Mineral thicket swamp	
Ecosite Code	SWT2	
Vegetation Type	Alder mineral thicket swamp	
Vegetation Type Code	SWT2-1	
Inclusion		
Inclusion Code		
Complex		
Complex Code		

Soil Description

Pit ID	1	1290

Location	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	Notes	Aspect 270Did not hit bedrock at 60
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	20.00
Slope Aspect (deg)	100.00	Gley	
Slope Percent	0.00	Water Table	30.00
Slope Length (m)	10.00	Carbonates	
		Bedrock	

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	10.00	0.00	Oh
Horizon 2	60.00	100.00	C
Horizon 3			
Horizon 4		0.00	

% Surface Stone	0.00
Moisture Regime	6
Drainage	5
Effective Texture	C

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Additional Notes



Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M12	Field Crew	OLGA HROPACH NATALIYA SIMONOVA	1776

Feature ID	ELC-N-M12(49)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	0		
Start Date	6/25/2015 12:19:16 PM	Precipitation	0		
End Date	6/25/2015 12:25:20 PM	Cloud Cover	100.00		

Polygon Description 1776

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Riverine
Plant Form	Submerged,Floating-LVD
Community	Pond

Stand Species 1776

	Height	Cover	Species Dominance
Canopy			N/A
Sub Canopy			
Shrub			
Groundcover			
Floating & Submerged			

Stand Composition 1776

	<10	10-24	25-50	>50
Size Class Analysis				
Standing Snags				
Deadfall / Logs				

Species Dominance <10	N/A
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1776
Community Age	Mid-Age
Ecosite	Open aquatic
Ecosite Code	OAO
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M28	Field Crew	OLGA HROPACH	1779

Feature ID	ELC-N-M28(53)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	20.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	2		
Start Date	6/25/2015 12:37:24 PM	Precipitation	0		
End Date	6/25/2015 12:52:27 PM	Cloud Cover	100.00		

Polygon Description 1779

System	Aquatic
Site	Open Water
History	Natural
Cover	Open
Substrate	Mineral Soil
Topographic Feature	Bottomland
Plant Form	Submerged,Floating-LVD
Community	Pond

Stand Species 1779

	Height	Cover	Species Dominance
Canopy			N/A
Sub Canopy			
Shrub			
Groundcover			
Floating & Submerged			

Stand Composition 1779

	<10	10-24	25-50	>50
Size Class Analysis				
Standing Snags				
Deadfall / Logs				

Species Dominance <10	N/A
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification	1779
Community Age	Mid-Age
Ecosite	Open aquatic
Ecosite Code	OAO
Vegetation Type	
Vegetation Type Code	
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Map Number	N-M49	Field Crew	KASEY & KRISTAN	1785

Feature ID	ELC-N-49(26)	Congruent Features			
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0		
Start Date	6/26/2015 9:26:45 AM	Precipitation	0		
End Date	6/26/2015 9:53:09 AM	Cloud Cover	10.00		

Polygon Description 1785

System	Wetland
Site	Shallow Water
History	Natural
Cover	Treed
Substrate	Organic
Topographic Feature	Bottomland
Plant Form	Graminoid,Forb,Bryophyte,Coniferous
Community	Fen

Stand Species 1785

	Height	Cover	Species Dominance
Canopy	3 >2-6m	3 25 - 60%	Larix laricina
Sub Canopy	4 >1-2m	3 25 - 60%	Larix laricina
Shrub	5 >0.5-1m	4 > 60%	Kalmia angustifolia > Chamaedaphne calyculata > Nemopanthus mucronatus
Groundcover	7 <0.2m	4 > 60%	Sphagnum > Maianthemum trifoliata > Woodwardia virginica
Floating & Submerged		0 None	

Stand Composition 1785

	<10	10-24	25-50	>50
Size Class Analysis	A	R	N	N
Standing Snags	R	N	N	N
Deadfall / Logs	R	N	N	N

Species Dominance <10	
Species Dominance 10-24	
Species Dominance 25-50	
Species Dominance >50	

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Stand Classification 1785

Community Age	Mid-Age
Ecosite	Treed Fen
Ecosite Code	FET1
Vegetation Type	Tamarack treed fen
Vegetation Type Code	FET1-1
Inclusion	
Inclusion Code	
Complex	
Complex Code	

Tree Tally 1326

Notes

Location

Latitude:45.872261,Longitude:-80.717311,Altitude:174.2,Speed:0.14404444,Accuracy:1.5,Provider:gps,Time:06/26/2015 09:41:37 EDT

Dead 0.00

Species	Tally	ID
Larix laricina	5.00	2649

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

ELC - WEC

Soil Description

Pit ID	1		1365
Location	Latitude:45.872268,Longitude:-80.717294,Altitude:177.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:06/26/2015 09:48:53 EDT	Notes	
		Depth to: (cm)	
Slope Position	5 Depression	Mottles	
Slope Aspect (deg)	0.00	Gley	
Slope Percent	0.00	Water Table	
Slope Length (m)	10.00	Carbonates	
		Bedrock	60.00

	Depth from Zero (m)	Coarse Fragments (%)	Texture
Horizon 1	60.00	0.00	Of
Horizon 2			
Horizon 3			
Horizon 4			

% Surface Stone	0.00
Moisture Regime	7
Drainage	7
Effective Texture	Of

Additional Notes

Execution Time 8/8/2015 9:18:40 AM

Filter Start Date 6/16/2015

Filter End Date 6/30/2015

Appendix B4

2015 Cavity Tree Density Plot Field Notes

BAT DENSITY SURVEY - WEC

AECOM

Map Number	A-M01	Field Crew	E MCNAUGHTON N SIMONOVA		52
Feature ID	BAT-A-M02-11	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	4.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	4/7/2015 11:59:45 AM	Precipitation	0		
End Date	4/7/2015 12:03:30 PM	Cloud Cover	3.00		
Plot ID	BAT-A-M01-02				121

Location	Plot Notes
Latitude:45.88995,Longitude:-80.556623,Altitude:189.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/07/2015 04:12:09 EDT	No suitable trees with DBH greater than 25

Plot ID	BAT-A-M02-05		124

Location	Plot Notes
Latitude:45.890282,Longitude:-80.553599,Altitude:211.1,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/07/2015 01:56:12 EDT	

Tree ID	1		199
Species	Pinus strobus	Location	
DBH (cm)	72	Latitude:45.890308,Longitude:-80.553636,Altitude:209.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/07/2015 01:44:08 EDT	
Height (m)	22		
Canopy Cover (%)	5		
# of Cavities	15	Notes	
Decay Class	2 Declining tree	Many woodpecker holes	
Suitable location for audio monitor?	N		
Cavity Details			91
Cavity Height (m)	3		

Cavity Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Details			94
Cavity Height (m)	4		
Cavity Notes			

Cavity Details			97
Cavity Height (m)	4		
Cavity Notes			

Tree ID	2		202
Species	Pinus strobus	Location	
DBH (cm)	26	Latitude:45.89032,Longitude:-80.553614,Altitude:209.9,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/07/2015 01:51:37 EDT	
Height (m)	12		
Canopy Cover (%)	45		
# of Cavities	0	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Plot ID	BAT-A-M02-03		127
Location		Plot Notes	
Latitude:45.890099,Longitude:-80.553659,Altitude:209.7,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/07/2015 02:00:40 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		205
Species	Picea sp	Location	
DBH (cm)	32	Latitude:45.890153,Longitude:-80.553732,Altitude:207.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/07/2015 02:04:23 EDT	
Height (m)	22		
Canopy Cover (%)	45		
# of Cavities	12	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	100
Cavity Height (m)	7
Cavity Notes	

Cavity Details	103
Cavity Height (m)	3
Cavity Notes	

Cavity Details	106
Cavity Height (m)	10
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		208
Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.890178,Longitude:-80.553764,Altitude:207.9,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/07/2015 02:09:01 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		109
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		112
Cavity Height (m)	2	
Cavity Notes		

Cavity Details		115
Cavity Height (m)	2	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		211
Species	Quercus rubra	Location	
DBH (cm)	38	Latitude:45.890074,Longitude:-80.553661,Altitude:207.6,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/07/2015 02:14:03 EDT	
Height (m)	11		
Canopy Cover (%)	15		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	Three long cavities	
Suitable location for audio monitor?	N		

Cavity Details		118
Cavity Height (m)	2	
Cavity Notes		

Cavity Details		121
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		124
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4	214
Species	Acer saccharinum	Location
DBH (cm)	7	Latitude:45.890072,Longitude:-80.553628,Altitude:205.9,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/07/2015 02:22:23 EDT
Height (m)	18	
Canopy Cover (%)	30	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		127
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		130
Cavity Height (m)	4	
Cavity Notes		

Plot ID	BAT-A-M02-09	130
Location	Plot Notes	
Latitude:45.890509,Longitude:-80.552874,Altitude:191.1,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:04/07/2015 02:41:37 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		217
Species	Pinus strobus	Location	
DBH (cm)	53	Latitude:45.890469,Longitude:-80.552954,Altitude:194.9,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/07/2015 02:36:11 EDT	
Height (m)	22		
Canopy Cover (%)	45		
# of Cavities	4	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		133
Cavity Height (m)	8	
Cavity Notes		

Cavity Details		136
Cavity Height (m)	5	
Cavity Notes		

Cavity Details		139
Cavity Height (m)	6	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		220
Species	Populus	Location	
DBH (cm)	35	Latitude:45.890518,Longitude:-80.552781,Altitude:188.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/07/2015 02:47:25 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	8	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	142
Cavity Height (m)	3
Cavity Notes	

Cavity Details	145
Cavity Height (m)	4
Cavity Notes	

Cavity Details	148
Cavity Height (m)	4
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	223
Species	Populus X	Location
DBH (cm)	27	Latitude:45.89052,Longitude:-80.552776,Altitude:188.4,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/07/2015 02:48:12 EDT
Height (m)	20	
Canopy Cover (%)	30	
# of Cavities	9	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	151
Cavity Height (m)	1
Cavity Notes	

Cavity Details	154
Cavity Height (m)	8
Cavity Notes	

Cavity Details	157
Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-A-M02-06	133
Location	Latitude:45.890359,Longitude:-80.55223,Altitude:184.5,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/07/2015 03:06:05 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		226
Species	Acer X	Location	
DBH (cm)	29	Latitude:45.890332,Longitude:-80.552229,Altitude:183.6,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/07/2015 03:07:59 EDT	
Height (m)	16		
Canopy Cover (%)	35		
# of Cavities	30	Notes	
Decay Class	1 Healthy, live tree	Lots of peeling bark	
Suitable location for audio monitor?	N		

Cavity Details		160
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		163
Cavity Height (m)	5	
Cavity Notes		

Cavity Details		166
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	229
Species	Acer saccharinum	Location
DBH (cm)	38	Latitude:45.890339,Longitude:-80.552294,Altitude:185.3,Speed:0.10288889,Accuracy:1.8,Provider:gps,Time:04/07/2015 03:12:37 EDT
Height (m)	15	
Canopy Cover (%)	50	
# of Cavities	10	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	169
Cavity Height (m)	1
Cavity Notes	

Cavity Details	172
Cavity Height (m)	3
Cavity Notes	

Cavity Details	175
Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-A-M02-04	136
Location	Plot Notes	
Latitude:45.890245,Longitude:-80.551865,Altitude:192.9,Speed:0.17491111,Accuracy:2.1,Provider:gps,Time:04/07/2015 03:36:53 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		232
Species	Acer saccharinum	Location	
DBH (cm)	32	Latitude:45.890234,Longitude:-80.551936,Altitude:192.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/07/2015 03:41:43 EDT	
Height (m)	24		
Canopy Cover (%)	50		
# of Cavities	5	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		178
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		181
Cavity Height (m)	5	
Cavity Notes		

Cavity Details		184
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		235
Species	Acer saccharinum	Location	
DBH (cm)	26	Latitude:45.890257,Longitude:-80.55202,Altitude:193.4,Speed:0.13375555,Accuracy:2.4,Provider:gps,Time:04/07/2015 03:44:49 EDT	
Height (m)	18		
Canopy Cover (%)	45		
# of Cavities	5	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		187
Cavity Height (m)	2	
Cavity Notes		

Cavity Details		190
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		193
Cavity Height (m)	3	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		238
Species	Acer saccharinum	Location	
DBH (cm)	26	Latitude:45.890281,Longitude:-80.552039,Altitude:193.5,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/07/2015 03:48:54 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	5	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		196
Cavity Height (m)	6	
Cavity Notes		

Cavity Details		199
Cavity Height (m)	4	
Cavity Notes		

Cavity Details		202
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4	241
Species	Acer saccharinum	
DBH (cm)	40	
Height (m)	22	
Canopy Cover (%)	50	
# of Cavities	9	
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Location

Latitude:45.890308,Longitude:-80.551965,Altitude:192.1,Speed:0.14918889,Accuracy:2.1,Provider:gps,Time:04/07/2015 03:50:26 EDT

Notes

Cavity Details 205

Cavity Height (m) 2

Cavity Notes

Cavity Details 208

Cavity Height (m) 1

Cavity Notes

Cavity Details 211

Cavity Height (m) 3

Cavity Notes

Plot ID BAT-A-M01-00 139

Location

Latitude:45.889758,Longitude:-80.559913,Altitude:191.9,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/07/2015 04:43:14 EDT

Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		244
Species	Thuja occidentalis	Location	
DBH (cm)	41	Latitude:45.889703,Longitude:-80.559984,Altitude:192.6,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:04/07/2015 04:48:22 EDT	
Height (m)	17		
Canopy Cover (%)	45		
# of Cavities	20	Notes	
Decay Class	1 Healthy, live tree	Wood pecker holes	
Suitable location for audio monitor?	N		

Cavity Details		214
Cavity Height (m)	0	
Cavity Notes		

Cavity Details		217
Cavity Height (m)	2	
Cavity Notes		

Cavity Details		220
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		247
Species	Acer saccharum	Location	
DBH (cm)	41	Latitude:45.889728,Longitude:-80.559973,Altitude:191.6,Speed:0.2417889,Accuracy:1.8,Provider:gps,Time:04/07/2015 04:45:31 EDT	
Height (m)	20		
Canopy Cover (%)	55		
# of Cavities	10	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		223
Cavity Height (m)	5	
Cavity Notes		

Cavity Details		226
Cavity Height (m)	6	
Cavity Notes		

Cavity Details		229
Cavity Height (m)	0	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		250
Species	Quercus sp.	Location	
DBH (cm)	35	Latitude:45.889706,Longitude:-80.559975,Altitude:194.0,Speed:0.15433334,Accuracy:2.1,Provider:gps,Time:04/07/2015 04:50:37 EDT	
Height (m)	13		
Canopy Cover (%)	10		
# of Cavities	8	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details		232
Cavity Height (m)	4	
Cavity Notes		

Cavity Details		235
Cavity Height (m)	3	
Cavity Notes		

Cavity Details		238
Cavity Height (m)	6	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		253
Species	Quercus rubra	Location	
DBH (cm)	37	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	
Height (m)	25		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			241
Cavity Height (m)	3		
Cavity Notes			
Map Number	A-M03	Field Crew	JAMES KAMSTRA, AYESHA PRASAD, AMI ARSENAULT 124
Feature ID	NA	Study Area	WEC
Project Number	60341251	Air Temp. (degC)	5.00
Tablet	AECOM2	Wind Speed (beaufort)	2
Start Date	4/8/2015 11:44:58 AM	Precipitation	0
End Date	4/8/2015 5:04:09 PM	Cloud Cover	100.00
Weather Notes			
Plot ID	BAT-A-M03-12		283
Location		Plot Notes	
Latitude:45.890662,Longitude:-80.542085,Altitude:201.8,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/08/2015 11:47:33 EDT		Mixed aspen and balsam fir with two very large white pine	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	385
Species	Pinus strobus	Location
DBH (cm)	75	Latitude:45.890634,Longitude:-80.542128,Altitude:202.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/08/2015 11:54:08 EDT
Height (m)	25	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	
Cavity Details		415
Cavity Height (m)	8	
Cavity Notes	Old partially healed Pileated woodpecker holes	
Plot ID	BAT-A-M3-14	286
Location	Latitude:45.891034,Longitude:-80.53606,Altitude:174.3,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:35:08 EDT	Plot Notes: Mature black ash swamp
Tree ID	1	388
Species	Ulnus americana	Location
DBH (cm)	38	Latitude:45.89094,Longitude:-80.536103,Altitude:185.1,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:39:26 EDT
Height (m)	8	
Canopy Cover (%)	30	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Several spaces under loose bark. Dead tree.
Suitable location for audio monitor?	N	
Cavity Details		418

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Lots of shaggy bark

Tree ID	2		394
Species	Fraxinus nigra	Location	
DBH (cm)	39	Latitude:45.89094,Longitude:-80.536065,Altitude:185.4,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:44:06 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Large black ash, some dead tree branches, large linear cavity for bat habitat	
Suitable location for audio monitor?	N		
Cavity Details			430

Cavity Height (m)	12
Cavity Notes	Large partially healed linear cavity

Plot ID	BAT-A-M3-17		295
Location		Plot Notes	
Latitude:45.891589,Longitude:-80.537295,Altitude:159.1,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:		Dense young balsam fir forest with some white spruce. No trees over 25 cm	

Plot ID	BAT-A-M3-15		298
Location		Plot Notes	
Latitude:45.891213,Longitude:-80.539578,Altitude:179.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/08/2015 01:45:01 EDT		Largely black ash forested area with some yellow birch and balsam fir. black ash cedar balsam fir swamp.	

Plot ID	BAT-A-M3-16		301

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.891309,Longitude:-80.540233,Altitude:194.9,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/08/2015 02:14:46 EDT	Coniferous; mostly balsam fir on a 40Â° slope

Tree ID	1	406

Species	Thuja occidentalis	Location	
DBH (cm)	29	Latitude:45.891246,Longitude:-80.540241,Altitude:194.0,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:20:33 EDT	
Height (m)	13		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree	Healthy cedar, two possible bat cavities	
Suitable location for audio monitor?	N		

Cavity Details		445
Cavity Height (m)	3	
Cavity Notes		
Hole in tree from branch decay		

Plot ID	BAT-A-M3-13	304

Location	Plot Notes
Latitude:45.890849,Longitude:-80.540759,Altitude:182.1,Speed:0.15947777,Accuracy:2.4,Provider:gps,Time:04/08/2015 02:32:29 EDT	Mixed trembling aspen balsam fir forest

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		409
Species	Populus tremuloides	Location	
DBH (cm)	57	Latitude:45.890802,Longitude:-80.540737,Altitude:182.2,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/08/2015 02:35:43 EDT	
Height (m)	10		
Canopy Cover (%)	30		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree	Several large holes and cracks near the top as well as some peeling bark that could provide space for bats	
Suitable location for audio monitor?	N		

Cavity Details		448
Cavity Height (m)	8	
Cavity Notes		

Cavity Details		451
Cavity Height (m)	8	
Cavity Notes		

Cavity Details		457
Cavity Height (m)	9	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		415
Species	Populus tremuloides	Location	
DBH (cm)	49	Latitude:45.890812,Longitude:-80.540674,Altitude:184.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:43:57 EDT	
Height (m)	22		
Canopy Cover (%)	20		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details			463
Cavity Height (m)	5		
Cavity Notes	2m long crack with several openings		

Map Number	A-M01	Field Crew	OLGA, NATALIYA 127

Feature ID	BAT-A-M1-1	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1	Light wind, cloudy	
Start Date	4/8/2015 10:16:47 AM	Precipitation	0		
End Date	4/8/2015 4:07:25 PM	Cloud Cover	100.00		

Plot ID	BAT-A-M1-1		289
Location	Latitude:45.890001,Longitude:-80.556471,Altitude:199.2,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/08/2015 10:20:07 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		391
Species	Populus tremuloides	Location	
DBH (cm)	33	Latitude:45.890001,Longitude:-80.556471,Altitude:199.2,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/08/2015 10:20:09 EDT	
Height (m)	8		
Canopy Cover (%)	70		
# of Cavities	4	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		421
Cavity Height (m)	0	
Cavity Notes	Break in bark, starting from 0.5 m from ground and other similar breaks in bark higher up the snag	

Cavity Details		424
Cavity Height (m)	2	
Cavity Notes	Break in bark	

Cavity Details		427
Cavity Height (m)	2	
Cavity Notes	Break in bark	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		397
Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.889983,Longitude:-80.556411,Altitude:200.3,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/08/2015 10:43:02 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	433
Cavity Height (m)	5
Cavity Notes	Notch where branch broke and splitting bark

Cavity Details	436
Cavity Height (m)	7
Cavity Notes	Notch where branch broke

Tree ID	3		403
Species	Populus tremuloides	Location	
DBH (cm)	26	Latitude:45.889989,Longitude:-80.55636,Altitude:201.1,Speed:0.061733333,Accuracy:2.1,Provider:gps,Time:04/08/2015 10:52:55 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Tree is alive and leaning up on a hill	
Suitable location for audio monitor?	N		

Cavity Details	442

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Small cavity in bark, 5 cm wide and 5 cm long, deep into trunk

Map Number	A-M02	Field Crew	OLGA NATALIYA

130

Feature ID	BAT-A-M2-10	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	4/8/2015 11:34:25 AM	Precipitation	0		
End Date	4/8/2015 4:07:50 PM	Cloud Cover	100.00		

Plot ID	BAT-A-M2-10

307

Location	Plot Notes
Latitude:45.890336,Longitude:-80.550721,Altitude:201.1,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/08/2015 11:35:51 EDT	A FEW snags and trees with cavities with DBH less than 25 cm

Tree ID	1

412

Species	Acer saccharum	Location	
DBH (cm)	33	Latitude:45.890341,Longitude:-80.550716,Altitude:202.9,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:04/08/2015 11:36:52 EDT	
Height (m)	22		
Canopy Cover (%)	55		
# of Cavities	10	Notes	
Decay Class	2 Declining tree	3 stems, one of which is broken and in later stages of decay	
Suitable location for audio monitor?	Y		

Cavity Details

454

Cavity Height (m)	1
Cavity Notes	3 cavities in tree, woodpecker holes

Cavity Details

460

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 1

Cavity Notes

Opening to striped trunk

Cavity Details 466

Cavity Height (m) 2

Cavity Notes

3 woodpecker holes, this stem us class 5 decay

Cavity Details 469

Cavity Height (m) 10

Cavity Notes

Opening in bark

Map Number A-M02 Field Crew OLGA NATALIYA 133

Feature ID	BAT CAVITY PLOTS	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	4/8/2015 1:08:13 PM	Precipitation	0		
End Date	4/8/2015 4:08:08 PM	Cloud Cover	100.00		

Plot ID BAT-A-M2-11 310

Location

Latitude:45.890755,Longitude:-80.54665,Altitude:201.2,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/08/2015 12:31:43 EDT

Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		418
Species	Acer saccharum	Location	
DBH (cm)	32	Latitude:45.890702,Longitude:-80.546667,Altitude:203.7,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/08/2015 12:33:23 EDT	
Height (m)	18		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			472
Cavity Height (m)	1		
Cavity Notes	Cavity deep inside tree size 15 cm long and 5 cm is wide		
Tree ID	2		421
Species	Betula papyrifera	Location	
DBH (cm)	29	Latitude:45.890745,Longitude:-80.546713,Altitude:202.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:40:47 EDT	
Height (m)	14		
Canopy Cover (%)	65		
# of Cavities	7	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			475
Cavity Height (m)	2		
Cavity Notes	Cavity inside, Pileated woodpecker holes		
Cavity Details			478

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	
Cavity *	

Cavity Details 481

Cavity Height (m)	3
Cavity Notes	
5 cavity	

Tree ID	3		424
Species	Betula papyrifera	Location	
DBH (cm)	29	Latitude:45.890796,Longitude:-80.546817,Altitude:203.0,Speed:0.5093,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:49:48 EDT	
Height (m)	16		
Canopy Cover (%)	45		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details 484

Cavity Height (m)	3
Cavity Notes	
cavity from Woodpecker 19cm long and 7 cm wide and many smaller holes 1cm wide	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		427
Species	Acer saccharum	Location	
DBH (cm)	27	Latitude:45.89081,Longitude:-80.546658,Altitude:202.7,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/08/2015 12:57:30 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			487
Cavity Height (m)	5		
Cavity Notes	Cavity from broken branch size is 15 cm long and 10 cm wide and very deep		
Tree ID	5		430
Species	Acer saccharum	Location	
DBH (cm)	30	Latitude:45.890795,Longitude:-80.546632,Altitude:202.6,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/08/2015 01:03:18 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	Several snags and smaller trees with cavitys less than 25 cm DBH. More suitable cavity trees outside of plot.	
Suitable location for audio monitor?	N		
Cavity Details			490
Cavity Height (m)	5		
Cavity Notes	Cavity size 20 long and 20 wide		
Cavity Details			493

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m): 8

Cavity Notes: *

Cavity Details 496

Cavity Height (m): 10

Cavity Notes: Cavity from broken branch

Plot ID: BAT-A-M2-8 313

Location: Latitude:45.890282,Longitude:-80.549134,Altitude:189.0,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/08/2015 01:35:49 EDT

Plot Notes: Few snags and last 25 DBH

Tree ID: 1 433

Species: Populus tremuloides

DBH (cm): 29

Height (m): 18

Canopy Cover (%): 60

Location: Latitude:45.890153,Longitude:-80.549188,Altitude:193.3,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/08/2015 01:39:32 EDT

# of Cavities: 9

Decay Class: 5 Older dead tree

Notes:

Suitable location for audio monitor? Y

Cavity Details 499

Cavity Height (m): 2

Cavity Notes: Fresh Woodpecker's cavity

Cavity Details 502

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	*

Tree ID	2		436
Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.890138,Longitude:-80.549206,Altitude:194.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/08/2015 01:45:08 EDT	
Height (m)	8		
Canopy Cover (%)	55		
# of Cavities	10	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details	505
Cavity Height (m)	1
Cavity Notes	Cavity size 17 cm long and 5 cm wide and very deep.

Cavity Details	508
Cavity Height (m)	2
Cavity Notes	*
Cavity Details	511
Cavity Height (m)	3
Cavity Notes	*
Plot ID	BAT-A-M2-7
	316

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.890442,Longitude:-80.549816,Altitude:201.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:21:20 EDT	Some smaller (less than 25 cm dbh) cavity trees

Tree ID	1	439
Species	Populus tremuloides	Location
DBH (cm)	28	Latitude:45.890445,Longitude:-80.549813,Altitude:201.1,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:22:27 EDT
Height (m)	8	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	4 Recently dead tree	Tree recently (within 2 years) broke/split
Suitable location for audio monitor?	N	

Cavity Details	514
Cavity Height (m)	2
Cavity Notes	Small cavity in bark, 6 cm long and 5 cm wide

Cavity Details	517
Cavity Height (m)	6
Cavity Notes	Loose bark where tree relatively recently broke

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		442
Species	Acer saccharum	Location	
DBH (cm)	25	Latitude:45.890488,Longitude:-80.549984,Altitude:201.4,Speed:0.14918889,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:28:43 EDT	
Height (m)	25		
Canopy Cover (%)	60		
# of Cavities	4	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			520
Cavity Height (m)	1		
Cavity Notes	Loose bark all the way up tree		
Cavity Details			523
Cavity Height (m)	6		
Cavity Notes	Loose bark and crevice in trunk		
Tree ID	3		445
Species	Populus tremuloides	Location	
DBH (cm)	32	Latitude:45.890378,Longitude:-80.549907,Altitude:196.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:34:41 EDT	
Height (m)	25		
Canopy Cover (%)	60		
# of Cavities	7	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			526

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	0
Cavity Notes	2 Woodpecker holes

Cavity Details 529

Cavity Height (m)	1
Cavity Notes	2 woodpecker holes

Cavity Details 532

Cavity Height (m)	2
Cavity Notes	Several notches (approx 7) along up tree where branches broke off. Unknown if higher notches contain cavities. Hard to see.

Cavity Details 535

Cavity Height (m)	1
Cavity Notes	1 Woodpecker hole

Tree ID 4 448

Species	Acer saccharum	Location	
DBH (cm)	33	Latitude:45.890362,Longitude:-80.549864,Altitude:196.5,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/08/2015 02:41:54 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	8	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 538

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Starting from 1 m up, there are several notches and loose bark up along the tree stems. Note: dbh taken of biggest stem.

Cavity Details 541

Cavity Height (m)	1
Cavity Notes	Same note as before, more photos of loose bark

Map Number	S-M3	Field Crew	AMY INGRISELLI NATALIA SIMONOVA

135

Feature ID	BAT-MY-558	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	4/13/2015 2:38:51 PM	Precipitation	2		
End Date	4/13/2015 5:00:56 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M3-558

318

Location	Plot Notes
Latitude:45.855374,Longitude:-80.573665,Altitude:199.1,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/13/2015 01:38:11 EDT	

Tree ID	1

450

Species	Pinus strobus	Location	
DBH (cm)	39	Latitude:45.855263,Longitude:-80.573613,Altitude:203.6,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/13/2015 01:38:11 EDT	
Height (m)	21		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 543

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Cavity from branch and bark

Plot ID	BAT-S-M3-570	321

Location	Plot Notes
Latitude:45.856143,Longitude:-80.573626,Altitude:199.1,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/13/2015 01:38:11 EDT	

Tree ID	1	453

Species	Acer rubrum	Location
DBH (cm)	49	Latitude:45.856105,Longitude:-80.57353,Altitude:194.4,Speed:0.056588889,Accuracy:1.75,Provider:gps,Time:04/13/2015 01:38:11 EDT
Height (m)	20	
Canopy Cover (%)	75	
# of Cavities	3	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	546

Cavity Height (m)	0
Cavity Notes	Peeling bark also providing cavities

Cavity Details	549

Cavity Height (m)	2
Cavity Notes	*

Cavity Details	552

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m): 6

Cavity Notes: *

Plot ID: BAT-S-M3-565 — 324

Location: Latitude:45.855636,Longitude:-80.573898,Altitude:203.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/13/2015 05:05:58 EDT

Plot Notes:

Tree ID: 1 — 456

Species: Poulus tremuloides

DBH (cm): 39

Height (m): 20

Canopy Cover (%): 80

# of Cavities: 1

Decay Class: 1 Healthy, live tree

Suitable location for audio monitor?: N

Location: Latitude:45.855632,Longitude:-80.573901,Altitude:203.4,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/13/2015 05:05:58 EDT

Notes:

Cavity Details — 555

Cavity Height (m): 1

Cavity Notes: Small cavity

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		459
Species	Populus trembling	Location	
DBH (cm)	42	Latitude:45.855578,Longitude:-80.573893,Altitude:202.0,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:04/13/2015 05:05:58 EDT	
Height (m)	8		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		558
Cavity Height (m)	0	
Cavity Notes	Hollow centre cavity	
Cavity Details		561
Cavity Height (m)	2	
Cavity Notes	*	
Cavity Details		564
Cavity Height (m)	6	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		462
Species	Populus tremuloides	Location	
DBH (cm)	40	Latitude:45.855546,Longitude:-80.573947,Altitude:201.6,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/13/2015 05:05:58 EDT	
Height (m)	25		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			567
Cavity Height (m)	8		
Cavity Notes	*		

Tree ID	4		465
Species	Populus tremuloides	Location	
DBH (cm)	37	Latitude:45.85552,Longitude:-80.573971,Altitude:200.3,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/13/2015 05:05:58 EDT	
Height (m)	25		
Canopy Cover (%)	65		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			570
Cavity Height (m)	10		
Cavity Notes	Cavity from dead branch		
Cavity Details			573

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	14
Cavity Notes	*

Map Number	BAT-S-M3	Field Crew	NATALIYA SIMONOVA AMY INGRISELLI	138

Feature ID	BAT-S-M3-565	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	9.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	2		
Start Date	4/13/2015 4:53:48 PM	Precipitation	2		
End Date	4/13/2015 4:55:50 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M3-577	327

Location	Plot Notes
Latitude:45.856503,Longitude:-80.573969,Altitude:204.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/13/2015 01:38:11 EDT	

Tree ID	1	468

Species	Pinus strobus	Location	
DBH (cm)	40	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	
Height (m)	25		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	576

Cavity Height (m)	8
Cavity Notes	Peeling, lifted back on 2 decaying branches

Cavity Details	579

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Cavity from branches

Tree ID	2		471
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.856177810405704,Longitude:-80.57394820684492,Altitude:279.79036869015545,Speed:2.2252603,Accuracy:25.0,Provider:gps,Time:04/13/2015 04:02:18 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	582
Cavity Height (m)	1
Cavity Notes	Cavity from branch and bark

Cavity Details	585
Cavity Height (m)	7
Cavity Notes	*

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	474
Species	Pinus strobus	Location
DBH (cm)	55	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:
Height (m)	27	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		588
Cavity Height (m)	4	
Cavity Notes	*cavity is shallow depression	
Plot ID	BAT-S-M3-585	330
Location	Latitude:45.85735735202423,Longitude:-80.57412361517527,Altitude:215.15152741335334,Speed:0.46569586,Accuracy:10.0,Provider:gps,Time:04/13/2015 04:26:31 EDT	Plot Notes
Tree ID	1	477
Species	Acer rubrum	Location
DBH (cm)	38	Latitude:45.85735442876009,Longitude:-80.57426815215183,Altitude:354.0771058704704,Speed:0.3938145,Accuracy:20.0,Provider:gps,Time:04/13/2015 04:30:44 EDT
Height (m)	18	
Canopy Cover (%)	65	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		591

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Cavity between the branch deeply

Cavity Details 594

Cavity Height (m)	3
Cavity Notes	*

Tree ID 2 480

Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.857298162013386,Longitude:-80.57345403009973,Altitude:257.27114008348434,Speed:0.3822206,Accuracy:10.0,Provider:gps,Time:04/13/2015 04:41:17 EDT	
Height (m)	12		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details 597

Cavity Height (m)	6
Cavity Notes	Decayed woodpecker cavity

Map Number	S-M04	Field Crew	OLGA HROPACH AMI ARSENAULT		144
Feature ID	BAT-S-M4-505	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	17.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	6	Rain	
Start Date	4/13/2015 2:09:28 PM	Precipitation	1		
End Date	4/13/2015 4:26:43 PM	Cloud Cover	100.00		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M4-505	351

Location	Plot Notes
Latitude:45.850877,Longitude:-80.574059,Altitude:190.4,Speed:0.22635555,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:00:40 EDT	Investigated polygon; northwest of centroid. No bat cavity trees greater then 25 cms. Rabbit scat in area.

Tree ID	1	525

Species	Pinus resinosa	Location
DBH (cm)	42	Latitude:45.850842,Longitude:-80.573922,Altitude:189.5,Speed:0.12346666,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:00:40 EDT
Height (m)	25	
Canopy Cover (%)	70	
# of Cavities	3	Notes
Decay Class	4 Recently dead tree	Recently dead pine tree. Some small Woodpecker holes that could be used for bats
Suitable location for audio monitor?	N	

Cavity Details		666
Cavity Height (m)	3	
Cavity Notes	Small Woodpecker hole	

Cavity Details		669
Cavity Height (m)	3	
Cavity Notes	Small Woodpecker hole	

Cavity Details		672
Cavity Height (m)	4	
Cavity Notes	Small Woodpecker hole	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		528
Species	Abies balsamea	Location	
DBH (cm)	30	Latitude:45.850841,Longitude:-80.57392,Altitude:189.7,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:00:40 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree	Recently dead fir with loose bark	
Suitable location for audio monitor?	N		
Cavity Details			675
Cavity Height (m)	3		
Cavity Notes			
Loose bark			
Plot ID	BAT-S-M4-509		354
Location		Plot Notes	
Latitude:45.851312,Longitude:-80.573319,Altitude:186.8,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/13/2015 03:08:39 EDT		Lots of Balsam fir.	
Tree ID	1		531
Species	Abies balsamea	Location	
DBH (cm)	28	Latitude:45.851354,Longitude:-80.573268,Altitude:187.5,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/13/2015 03:08:39 EDT	
Height (m)	4		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree	Dead tree with some small cavities	
Suitable location for audio monitor?	N		
Cavity Details			678

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Small Woodpecker hole

Cavity Details 681

Cavity Height (m)	2
Cavity Notes	Small Woodpecker hole

Cavity Details 684

Cavity Height (m)	2
Cavity Notes	Cavity

Tree ID 2 534

Species	Populus tremuloides	Location	
DBH (cm)	29	Latitude:45.851352,Longitude:-80.573227,Altitude:189.3,Speed:0.087455556,Accuracy:2.7,Provider:gps,Time:04/13/2015 03:08:39 EDT	
Height (m)	7		
Canopy Cover (%)	70		
# of Cavities		Notes	
Decay Class	5 Older dead tree	Dead poplar. Some loose bark	
Suitable location for audio monitor?	N		

Cavity Details 687

Cavity Height (m)	5
Cavity Notes	Small Woodpecker hole

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		537
Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.851339,Longitude:-80.573307,Altitude:188.6,Speed:0.06173333,Accuracy:2.4,Provider:gps,Time:04/13/2015 03:08:39 EDT	
Height (m)	29		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Crevice behind loose bark	
Suitable location for audio monitor?	N		
Cavity Details			690
Cavity Height (m)	2		
Cavity Notes	Tight slash in bark. Could be used by bats		
Plot ID	BAT-S-M4 -513		357
Location	Latitude:45.85157,Longitude:-80.573214,Altitude:191.4,Speed:0.010288889,Accuracy:3.3,Provider:gps,Time:04/13/2015 03:48:15 EDT	Plot Notes	On western slope of rock barren. Balsam firs
Tree ID	1		540
Species	Picea glauca	Location	
DBH (cm)	26	Latitude:45.851488,Longitude:-80.573212,Altitude:193.9,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/13/2015 03:48:15 EDT	
Height (m)	18		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree	Loose bark	
Suitable location for audio monitor?	N		
Cavity Details			693

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Shaggy loose bark

Plot ID	BAT-S-M4 -507	360

Location	Plot Notes
Latitude:45.851133,Longitude:-80.573695,Altitude:190.2,Speed:0.087455556,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:11:14 EDT	Just east of thicket swsmp

Tree ID	1	543

Species	Populus tremuloides	Location
DBH (cm)	45	Latitude:45.851122,Longitude:-80.573823,Altitude:192.5,Speed:0.06173333,Accuracy:2.4,Provider:gps,Time:04/13/2015 04:11:14 EDT
Height (m)	22	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	Right beside thicket
Suitable location for audio monitor?	N	

Cavity Details	696

Cavity Height (m)	3
Cavity Notes	Large gash in tree. Picked away at by Woodpecker.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		546
Species	Populus tremuloides	Location	
DBH (cm)	56	Latitude:45.851144,Longitude:-80.573774,Altitude:192.2,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:11:14 EDT	
Height (m)	25		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Large crack in bark	
Suitable location for audio monitor?	N		

Cavity Details	699
Cavity Height (m)	7
Cavity Notes	Large crevice

Map Number	S-M01	Field Crew	JOHANNA PEREZ, TOM SHORNEY, MATT HERBERT		147
Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/14/2015 8:01:39 AM	Precipitation	0		
End Date	4/14/2015 3:25:53 PM	Cloud Cover	0.00		

Plot ID	BAT-S-M01-620		363
Location	Latitude:45.869676,Longitude:-80.568398,Altitude:185.9,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	Plot Notes	

Plot ID	BAT-S-M01-619		366
Location	Latitude:45.869675,Longitude:-80.568445,Altitude:188.5,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	549
Species	Populus tremuloides	
DBH (cm)	35	
Height (m)	20	
Canopy Cover (%)	85	
# of Cavities	1	
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.869361,Longitude:-80.568484,Altitude:190.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Notes	Some peeling bark on horizontal branch	
Cavity Details		702
Cavity Height (m)	16	
Cavity Notes	Peeling bark along branch	
Map Number	S-M01	
Field Crew	SEE PREVIOUS SURVEY FORM	150
Feature ID	NA	
Study Area	WEC	
Project Number	60341251	
Air Temp. (degC)	4.00	
Weather Notes		
Tablet	AECOM13	
Wind Speed (beaufort)	1	
Start Date	4/14/2015 8:58:41 AM	
Precipitation	0	
End Date	4/14/2015 3:25:39 PM	
Cloud Cover	0.00	
Plot ID	BAT-S-M01-618	369
Location	Latitude:45.869235,Longitude:-80.568835,Altitude:185.2,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Plot Notes	Smaller snags with cavities	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		552
Species	Populus tremuloides	Location	
DBH (cm)	35	Latitude:45.869237,Longitude:-80.568839,Altitude:185.2,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	9		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Several cavities leading to central cavity, not very tall! Possible candidate	
Suitable location for audio monitor?	N		
Cavity Details			705
Cavity Height (m)	2		
Cavity Notes	Several cavities feeding central cavity		
Tree ID	2		555
Species	Populus tremuloides	Location	
DBH (cm)	38	Latitude:45.869292,Longitude:-80.568828,Altitude:185.4,Speed:0.11832222,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	20		
Canopy Cover (%)	45		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree	Peeling bark as well as one woodpecker hole	
Suitable location for audio monitor?	N		
Tree ID	3		558

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Species	Populus tremuloides	Location	
DBH (cm)	32	Latitude:45.869265,Longitude:-80.568881,Altitude:185.0,Speed:0.051444445,Accuracy:2.0,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	Small cavities which do not feed into central cavity	
Suitable location for audio monitor?	N		
Plot ID	BAT-S-M01-616		372
Location		Plot Notes	
Latitude:45.86888,Longitude:-80.569278,Altitude:181.8,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT			
Tree ID	1		561
Species	Abies balsamea	Location	
DBH (cm)	32	Latitude:45.868861,Longitude:-80.56919,Altitude:188.8,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	10		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Peeling bark. Substantial woodpecker activity	
Suitable location for audio monitor?	N		
Cavity Details			708
Cavity Height (m)	2		
Cavity Notes			
Woodpecker activity			
Cavity Details			711

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Peeling bark along tree

Plot ID	BAT-S-M01-617	375

Location	Plot Notes
Latitude:45.868982,Longitude:-80.569653,Altitude:194.3,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	Young growth in this location

Plot ID	BAT-S-M01-614	378

Location	Plot Notes
Latitude:45.868522,Longitude:-80.569608,Altitude:190.3,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	

Tree ID	1	564

Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.868522,Longitude:-80.569608,Altitude:190.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	10		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree	Small space under bark	
Suitable location for audio monitor?	N		

Cavity Details		714
Cavity Height (m)	6	
Cavity Notes	Space under bark	

Plot ID	BAT-S-M01-615	381

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.868728,Longitude:-80.569978,Altitude:191.2,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	

Tree ID	1	567

Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.868728,Longitude:-80.569978,Altitude:191.2,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	12		
Canopy Cover (%)	30		
# of Cavities	2	Notes	
Decay Class			
Suitable location for audio monitor?	N		

Cavity Details		717
Cavity Height (m)	5	
Cavity Notes	Woodpecker activity	

Cavity Details		720
Cavity Height (m)	8	
Cavity Notes	Peeling bark	

Plot ID	BAT-S-M01-613	384

Location	Plot Notes
Latitude:45.868506,Longitude:-80.570428,Altitude:195.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		570
Species	Abies balsamea	Location	
DBH (cm)	27	Latitude:45.868504,Longitude:-80.570419,Altitude:195.2,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	15		
Canopy Cover (%)	5		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree	Peeling bark along tree trunk	
Suitable location for audio monitor?	N		
Cavity Details			723
Cavity Height (m)	3		
Cavity Notes			
Peeling bark along tree trunck			
Plot ID	BAT-S-M01-612		387
Location		Plot Notes	
Latitude:45.868248,Longitude:-80.570436,Altitude:196.6,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT			
Tree ID	1		573
Species	Acer rubra	Location	
DBH (cm)	26	Latitude:45.868248,Longitude:-80.570436,Altitude:196.6,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	15		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class		Major central cavity, but only 1 metre high	
Suitable location for audio monitor?	N		
Cavity Details			726

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Central cavity, but very low

Tree ID	2		576
Species	Abies balsamea	Location	
DBH (cm)	25	Latitude:45.868208,Longitude:-80.570391,Altitude:196.0,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	6		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree	Peeling bark, with much of the truck covered in old branches	
Suitable location for audio monitor?	N		

Cavity Details 729

Cavity Height (m)	5
Cavity Notes	Peeling bark

Plot ID	BAT-S-M01-611		390
Location		Plot Notes	
Latitude:45.868191,Longitude:-80.570869,Altitude:198.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		579
Species	Pinus strobus	Location	
DBH (cm)	41	Latitude:45.868189,Longitude:-80.570874,Altitude:198.4,Speed:0.11317778,Accuracy:1.75,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	5		
Canopy Cover (%)	45		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	A combination of cavities and peeling bark	
Suitable location for audio monitor?	N		
Cavity Details			732
Cavity Height (m)	2		
Cavity Notes	Peeling bark along truck of tree		
Tree ID	2		582
Species	Pinus strobus	Location	
DBH (cm)	66	Latitude:45.868224,Longitude:-80.5709,Altitude:196.8,Speed:0.15947777,Accuracy:1.5,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	10		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			735
Cavity Height (m)	3		
Cavity Notes	Peeling bark along tree, with several woodpecker holes		
Plot ID	BAT-S-M01-610		393

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.867906,Longitude:-80.57111,Altitude:195.5,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/14/2015 07:56:21 EDT	

Tree ID	1	585

Species	Na	Location	
DBH (cm)	29	Latitude:45.867908,Longitude:-80.571121,Altitude:195.0,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/14/2015 07:56:21 EDT	
Height (m)	7		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class			
Suitable location for audio monitor?	N		

Cavity Details		738
Cavity Height (m)	1	
Cavity Notes	Large cavity in centre of tree	

Cavity Details		741
Cavity Height (m)	4	
Cavity Notes	Central cavity, rotten wood surrounding	

Plot ID	BAT-S-M01-609	396

Location	Plot Notes
Latitude:45.867704,Longitude:-80.571482,Altitude:196.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/14/2015 07:56:21 EDT	Majority of trees under 25 dbh

Plot ID	BAT-S-M02-608	399

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.864663,Longitude:-80.573481,Altitude:204.1,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 12:14:34 EDT	

Plot ID: BAT-S-M2-607 — 402

Location	Plot Notes
Latitude:45.864521,Longitude:-80.57373,Altitude:207.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT	

Plot ID: BAT-S-M10-579 — 405

Location	Plot Notes
Latitude:45.856661,Longitude:-80.613534,Altitude:210.4,Speed:0.4835778,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT	

Tree ID: 1 — 588

Species	Pinus strobus	Location	
DBH (cm)	29	Latitude:45.856681,Longitude:-80.613713,Altitude:209.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT	
Height (m)	15		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details — 744

Cavity Height (m): 10

Cavity Notes: Large cavity, very little central cavity

Plot ID: BAT-S-M10-582 — 408

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.856825,Longitude:-80.613352,Altitude:203.1,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:14:34 EDT	

Tree ID	1	591

Species	Quercus rubra	Location	
DBH (cm)	28	Latitude:45.856824,Longitude:-80.613352,Altitude:203.2,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:14:34 EDT	
Height (m)	13		
Canopy Cover (%)	65		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		747
Cavity Height (m)	10	
Cavity Notes	Large cavity at top of canopy which feeds to inner cavity	

Cavity Details		750
Cavity Height (m)	12	
Cavity Notes	Cavity at top of tree, access to centre cavity from bottom	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		594
Species	Largetooth aspen	Location	
DBH (cm)	43	Latitude:45.856898,Longitude:-80.613271,Altitude:202.9,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT	
Height (m)	22		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			753
Cavity Height (m)	13		
Cavity Notes	Small cavity, central cavity unknown		
Tree ID	3		597
Species	Unknown	Location	
DBH (cm)	26	Latitude:45.856884,Longitude:-80.613336,Altitude:207.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT	
Height (m)	3		
Canopy Cover (%)	55		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			756
Cavity Height (m)	2		
Cavity Notes	Tree stump very small, cavity low. However does contain central cavity		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4	600
Species	Largetooth Aspen	Location
DBH (cm)	40	Latitude:45.856831,Longitude:-80.613394,Altitude:208.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT
Height (m)	7	
Canopy Cover (%)	65	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		759
Cavity Height (m)	7	
Cavity Notes	Cavity provides access to inner cavity	
Plot ID	BAT-S-M10-576	411
Location	Latitude:45.856495,Longitude:-80.613246,Altitude:201.8,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:14:34 EDT	Plot Notes
Tree ID	1	603
Species	Largetooth aspen	Location
DBH (cm)	42	Latitude:45.856501,Longitude:-80.613251,Altitude:201.5,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:14:34 EDT
Height (m)	16	
Canopy Cover (%)	15	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		762

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	14
Cavity Notes	Large woodpecker cavity providing access to inner cavity

Cavity Details 765

Cavity Height (m)	15
Cavity Notes	Large Woodpecker cavity providing access to central cavity

Tree ID 2 606

Species	Largetooth aspen	Location	
DBH (cm)	60	Latitude:45.856599,Longitude:-80.613164,Altitude:203.9,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:14:34 EDT	
Height (m)	10		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details 768

Cavity Height (m)	3
Cavity Notes	Long linear space under tree bark

Map Number	S-M03	Field Crew	JASON NORONHA, ROB CONOHAN	153

Feature ID	BAT589	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	3	
Start Date	4/13/2015 2:54:54 PM	Precipitation	1	
End Date	4/13/2015 4:59:46 PM	Cloud Cover	100.00	

Plot ID BAT-S-M03-589 414

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.858911,Longitude:-80.573722,Altitude:211.5,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:10:27 EDT	No cavities

Map Number	BAT-S-M590	Field Crew	JASON NORONHA. ROB CONOHAN	156

Feature ID	BAT-M590	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	3	
Start Date	4/13/2015 3:13:05 PM	Precipitation	1	
End Date	4/13/2015 4:58:55 PM	Cloud Cover	100.00	

Plot ID	BAT-S-M03-590	417

Location	Plot Notes
Latitude:45.859022,Longitude:-80.574038,Altitude:205.7,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/13/2015 02:10:27 EDT	

Tree ID	1	609

Species	Hickory?	Location	
DBH (cm)	29	Latitude:45.859025,Longitude:-80.574039,Altitude:205.5,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:04/13/2015 02:10:27 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	771

Cavity Height (m)	4
Cavity Notes	

Map Number	S-M03	Field Crew	JASON NORONHA ROB CONOHAN	159

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID	BAT-M591	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	4/13/2015 3:37:20 PM	Precipitation	2		
End Date	4/13/2015 4:58:43 PM	Cloud Cover	100.00		

Plot ID: BAT-S-M03-591 — 420

Location: Latitude:45.859646,Longitude:-80.574506,Altitude:202.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:10:27 EDT

Plot Notes:

Tree ID: 1 — 612

Species	Acer rubrum	Location	Latitude:45.859646,Longitude:-80.574506,Altitude:202.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:10:27 EDT
DBH (cm)	38		
Height (m)	20		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details — 774

Cavity Height (m): 1

Cavity Notes:

Map Number: S-M3 — Field Crew: JASON NORONHA ROB CONOHAN — 162

Feature ID	BAT-592	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	4		
Start Date	4/13/2015 4:02:46 PM	Precipitation	2		
End Date	4/13/2015 4:58:16 PM	Cloud Cover	100.00		

Plot ID: BAT-S-M03-592 — 423

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.85984,Longitude:-80.573771,Altitude:194.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/13/2015 03:56:39 EDT	

Tree ID	1	615

Species	Acer	Location	
DBH (cm)	35	Latitude:45.85984,Longitude:-80.573769,Altitude:194.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/13/2015 03:56:39 EDT	
Height (m)	7		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details	777

Cavity Height (m)	2
Cavity Notes	

Tree ID	2	618

Species	Acer	Location	
DBH (cm)	52	Latitude:45.859853,Longitude:-80.573639,Altitude:196.3,Speed:0.2675111,Accuracy:2.0,Provider:gps,Time:04/13/2015 03:56:39 EDT	
Height (m)	12		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	780

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 2

Cavity Notes

Plot ID BAT-S-M2-593 426

Location

Latitude:45.860208,Longitude:-80.573733,Altitude:196.8,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:23:42 EDT

Plot Notes

No suitable trees

Plot ID BAT-S-M2-594 429

Location

Latitude:45.860168,Longitude:-80.574525,Altitude:191.5,Speed:0.2675111,Accuracy:2.1,Provider:gps,Time:04/13/2015 04:29:09 EDT

Plot Notes

No suitable trees

Map Number S-M03, S-M02 Field Crew JASON NORONHA, ROB CONOHAN, MIKE ASHAWASEGAI 165

Feature ID BAT-S-M3-586 Study Area WEC

Project Number 60341251 Air Temp. (degC) 3.00 Weather Notes

Tablet AECOM8 Wind Speed (beaufort) 2

Start Date 4/14/2015 8:36:38 AM Precipitation 0

End Date 4/14/2015 4:57:42 PM Cloud Cover 0.00

Plot ID BAT-S-M3-586 432

Location

Latitude:45.857462,Longitude:-80.573863,Altitude:204.7,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:04/14/2015 08:30:21 EDT

Plot Notes

Plot ID BAT-S-M3-587 435

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.858106,Longitude:-80.573953,Altitude:209.6,Speed:0.61733335,Accuracy:2.4,Provider:gps,Time:04/14/2015 08:46:24 EDT	Balsam fir, red maple, white birch

Plot ID	BAT-S-M3-588	438

Location	Plot Notes
Latitude:45.858353,Longitude:-80.574132,Altitude:220.4,Speed:0.0,Accuracy:2.1,Provider:gps,Time:04/14/2015 08:58:01 EDT	

Plot ID	BAT-S-M02-595	441

Location	Plot Notes
Latitude:45.860398,Longitude:-80.574172,Altitude:225.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/14/2015 09:27:38 EDT	Small fir+pine forest adjacent to rock barren area. No suitable trees

Plot ID	BAT-S-M02-596	444

Location	Plot Notes
Latitude:45.860616,Longitude:-80.573962,Altitude:223.0,Speed:0.066877775,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:27:38 EDT	Rock barren. No suitable trees

Plot ID	BAT-S-M02-597	447

Location	Plot Notes
Latitude:45.860567,Longitude:-80.574393,Altitude:223.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:56:09 EDT	Dense pine stand

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	621
Species	Pine sp.	Location
DBH (cm)	37	Latitude:45.860587,Longitude:-80.574448,Altitude:223.6,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:56:09 EDT
Height (m)	6	
Canopy Cover (%)	75	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	Old dead pine sp.
Suitable location for audio monitor?	N	

Cavity Details		783
Cavity Height (m)	3	
Cavity Notes	Cavity Potential behind bark	

Plot ID	BAT-S-M02-598	450
Location	Latitude:45.861082,Longitude:-80.574431,Altitude:236.2,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:10:58 EDT	Plot Notes: White Spruce, White pine forest.

Plot ID	BAT-S-M02-599	453
Location	Latitude:45.86127,Longitude:-80.57405,Altitude:239.3,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/14/2015 10:22:27 EDT	Plot Notes: FOM community

Plot ID	BAT-S-M02-600	456
Location	Latitude:45.861377,Longitude:-80.574369,Altitude:235.9,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:35:43 EDT	Plot Notes:

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		624
Species	Pinus Strobus	Location	
DBH (cm)	30	Latitude:45.861415,Longitude:-80.574292,Altitude:234.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:35:43 EDT	
Height (m)	16		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Healthy tree	
Suitable location for audio monitor?	N		
Cavity Details			786
Cavity Height (m)	2		
Cavity Notes			
Behind cracking in trunk			
Plot ID	BAT-S-M02-601		459
Location		Plot Notes	
Latitude:45.861939,Longitude:-80.57429,Altitude:240.5,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/14/2015 10:55:25 EDT			
Tree ID	1		627
Species	Abies balsamea	Location	
DBH (cm)	33	Latitude:45.861917,Longitude:-80.574238,Altitude:241.9,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:55:25 EDT	
Height (m)	4		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree	Very dead tree	
Suitable location for audio monitor?	N		
Cavity Details			789

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Large cavity with opening above

Tree ID	2		630
Species	Pinus strobus	Location	
DBH (cm)	53	Latitude:45.861887,Longitude:-80.573971,Altitude:242.7,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:55:25 EDT	
Height (m)	22		
Canopy Cover (%)	25		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	Healthy white pine	
Suitable location for audio monitor?	Y		

Cavity Details 792

Cavity Height (m)	6
Cavity Notes	Cavity opportunity in large crack and hole in trunk

Plot ID	BAT-S-M02-602		462
Location		Plot Notes	
Latitude:45.861924,Longitude:-80.574591,Altitude:231.4,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/14/2015 11:36:21 EDT		Red maple Balsam Fir, FOM	

Plot ID	BAT-S-M02-603		465
Location		Plot Notes	
Latitude:45.86206,Longitude:-80.573989,Altitude:232.1,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 11:48:55 EDT		Open White spruce, balsam fir stand.	

Plot ID	BAT-S-M02-604	468

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.862531,Longitude:-80.57448,Altitude:232.3,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:03:28 EDT	Open White pine and spruce stand. Young trees not suitable

Plot ID	BAT-S-M02-605	471

Location	Plot Notes
Latitude:45.862862,Longitude:-80.573949,Altitude:224.9,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:03:28 EDT	White pine/red maple stand

Plot ID	BAT-S-M02-606	474

Location	Plot Notes
Latitude:45.86426,Longitude:-80.573977,Altitude:226.9,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:31:06 EDT	Edge of stream and treed rock barren. Majority of trees fairly young.

Plot ID	BAT-S-M10-583	477

Location	Plot Notes
Latitude:45.856664,Longitude:-80.61474,Altitude:235.4,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 02:29:13 EDT	Full polygon survey

Tree ID	1	633

Species	Quercus rubra	Location	
DBH (cm)	42	Latitude:45.856762,Longitude:-80.614435,Altitude:230.5,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:29:13 EDT	
Height (m)	16		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	795

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	10x5 cavity in natural break in trunk

Tree ID	2		636
Species	Pinus strobus	Location	
DBH (cm)	36	Latitude:45.856813,Longitude:-80.614326,Altitude:228.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:29:13 EDT	
Height (m)	21		
Canopy Cover (%)	80		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			798

Cavity Height (m)	3
Cavity Notes	3 Woodpecker excavation cavities

Tree ID	3		639
Species	Pinus strobus	Location	
DBH (cm)	27	Latitude:45.856873,Longitude:-80.614301,Altitude:227.5,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 02:29:13 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			801

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Woodpecker excavation

Tree ID	4		642
Species	Pinus strobus	Location	
DBH (cm)	45	Latitude:45.857023,Longitude:-80.614494,Altitude:227.5,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/14/2015 02:29:13 EDT	
Height (m)	19		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			804

Cavity Height (m)	3
Cavity Notes	Small 5x5cm cavity

Tree ID	5		645
Species	Pinus resinosa	Location	
DBH (cm)	51	Latitude:45.857006,Longitude:-80.614543,Altitude:227.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 02:29:13 EDT	
Height (m)	19		
Canopy Cover (%)	25		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			807

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	3 cavities facing open clearing

Cavity Details 810

Cavity Height (m)	1
Cavity Notes	At base of tree

Map Number	M-S06	Field Crew	OLGA AMI A	168

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)	1	
Start Date	4/14/2015 9:12:23 AM	Precipitation	0	
End Date	4/14/2015 4:54:38 PM	Cloud Cover	0.00	

Plot ID	BAT-S-M06-383	480

Location	Plot Notes
Latitude:45.845917,Longitude:-80.587284,Altitude:198.2,Speed:0.33438888,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:04:43 EDT	

Tree ID	1	648

Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.845912,Longitude:-80.587249,Altitude:199.6,Speed:0.015433333,Accuracy:2.7,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Multi-stemmed red maple with few stems dead and broken	
Suitable location for audio monitor?	N		

Cavity Details 813

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Loose bark on tree

Tree ID	2		651
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.845909,Longitude:-80.58736,Altitude:198.5,Speed:0.5144445,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	25		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Loose bark	
Suitable location for audio monitor?	N		
Cavity Details			816

Cavity Height (m)	2
Cavity Notes	Loose bark

Tree ID	3		654
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.845924,Longitude:-80.587319,Altitude:199.0,Speed:0.14404444,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	24		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			819

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Trunk split down the middle

Plot ID	BAT-S-M06 -378	483

Location	Plot Notes
Latitude:45.845778,Longitude:-80.587822,Altitude:195.6,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:04:43 EDT	Just south of the t line in area with yellow birches and maples. Lots of trees smaller then 25cm. Nicely spaced out.

Tree ID	1	657

Species	Betula alleghaniensis	Location
DBH (cm)	42	Latitude:45.845761,Longitude:-80.58784,Altitude:195.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:04:43 EDT
Height (m)	16	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	2 Declining tree	Yellow birch
Suitable location for audio monitor?	N	

Cavity Details	822

Cavity Height (m)	13
Cavity Notes	Small hole in tree below failed branch with mushroom growth

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		660
Species	Betula alleghaniensis	Location	
DBH (cm)	32	Latitude:45.845714,Longitude:-80.587899,Altitude:197.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Yellow birch	
Suitable location for audio monitor?	Y		
Cavity Details			825
Cavity Height (m)	3		
Cavity Notes	Large cavity in tree. Failed branch		
Plot ID	BAT-S-M06-376		486
Location	Latitude:45.845761,Longitude:-80.588521,Altitude:196.9,Speed:0.08231111,Accuracy:2.7,Provider:gps,Time:04/14/2015 09:04:43 EDT	Plot Notes	North of thicket swamp, at edge of thicket swamp. Abundance of young trees (less than 25 cm dbh) with a few large red maples. Some younger/smaller trees also have cavities.
Tree ID	1		663
Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.845746,Longitude:-80.588532,Altitude:198.9,Speed:0.0926,Accuracy:3.0,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	26		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree	Loose bark	
Suitable location for audio monitor?	N		
Cavity Details			828

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Loose bark

Cavity Details 831

Cavity Height (m)	15
Cavity Notes	Loose bark at bottom of branch

Plot ID BAT-S-M06-373 489

Location	Plot Notes
Latitude:45.845349,Longitude:-80.588717,Altitude:199.0,Speed:0.051444445,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:04:43 EDT	Some smaller/ younger trees with cavities.

Tree ID 1 666

Species	Pinus strobus	Location	
DBH (cm)	30	Latitude:45.845311,Longitude:-80.58865,Altitude:199.5,Speed:0.1389,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	10		
Canopy Cover (%)	60		
# of Cavities	10	Notes	
Decay Class	5 Older dead tree	Snag with many woodpecker holes	
Suitable location for audio monitor?	N		

Cavity Details 834

Cavity Height (m)	2
Cavity Notes	Many wood pecker holes all around the snag

Cavity Details 837

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	4 Pileated woodpecker holes

Plot ID	BAT-S-M06-371	492

Location	Plot Notes
Latitude:45.84524,Longitude:-80.589635,Altitude:199.1,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:04:43 EDT	Beside access road flags. Heavily treed area. Considerable amounts of trees smaller then 25cm. Lots of fir and pine.

Tree ID	1	669

Species	Unknown	Location
DBH (cm)	27	Latitude:45.84526,Longitude:-80.589468,Altitude:199.7,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:04/14/2015 09:04:43 EDT
Height (m)	4	
Canopy Cover (%)	65	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	Unknown species. No twigs left on tree.
Suitable location for audio monitor?	N	

Cavity Details	840

Cavity Height (m)	2
Cavity Notes	Woodpecker hole

Cavity Details	843

Cavity Height (m)	3
Cavity Notes	Old limb hole

Cavity Details	846

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Woodpecker hole

Tree ID	2		672
Species	Pinus strobus	Location	
DBH (cm)	49	Latitude:45.845291,Longitude:-80.589502,Altitude:197.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:04:43 EDT	
Height (m)	29		
Canopy Cover (%)	70		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	Freshly excavated Woodpecker holes	
Suitable location for audio monitor?	N		

Cavity Details	849
Cavity Height (m)	6
Cavity Notes	Woodpecker hole
Cavity Details	852
Cavity Height (m)	6
Cavity Notes	Woodpecker hole
Cavity Details	855
Cavity Height (m)	6
Cavity Notes	Woodpecker hole

Plot ID	BAT-S-M04-369		495

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.844748,Longitude:-80.589677,Altitude:208.9,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/14/2015 11:27:07 EDT	Near small rock barren. Centroid in slightly pooled area. Plot mainly includes trees that are smaller than 25cms. There is one good birch snag with possible bat habitat... but was only 19cm dbh

Plot ID	BAT-S-M06-362	498

Location	Plot Notes
Latitude:45.84381,Longitude:-80.589204,Altitude:198.5,Speed:0.12861112,Accuracy:2.7,Provider:gps,Time:04/14/2015 12:18:20 EDT	On east side of access road line. Wet area. Lots of trees smaller with cavities less then 25cm dbh.

Plot ID	BAT-S-M06-377	501

Location	Plot Notes
Latitude:45.845719,Longitude:-80.59033,Altitude:197.6,Speed:0.5247333,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	

Tree ID	1	675

Species	Poplar	Location	
DBH (cm)	44	Latitude:45.845803,Longitude:-80.590464,Altitude:202.3,Speed:0.37554446,Accuracy:3.0,Provider:gps,Time:04/14/2015 12:18:20 EDT	
Height (m)	25		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree	A few large Woodpecker holes in tree	
Suitable location for audio monitor?	N		

Cavity Details	858

Cavity Height (m)	9

Cavity Notes

Woodpecker holes

Cavity Details	861

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	Large gaping hole

Tree ID	2		681
Species	Betula alleghaniensis	Location	
DBH (cm)	29	Latitude:45.845768,Longitude:-80.590615,Altitude:200.9,Speed:0.10803334,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	
Height (m)	13		
Canopy Cover (%)	30		
# of Cavities	2	Notes	
Decay Class		Old dead tree. Woodpecker holes	
Suitable location for audio monitor?	N		

Cavity Details	870
Cavity Height (m)	12
Cavity Notes	Small Woodpecker holes near top of tree
Cavity Details	873
Cavity Height (m)	8
Cavity Notes	Small Woodpecker holes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	690
Species	Betula papyrifera	Location
DBH (cm)	37	Latitude:45.845748,Longitude:-80.590664,Altitude:199.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT
Height (m)	23	
Canopy Cover (%)	60	
# of Cavities	2	Notes
Decay Class		Louise bark on paper birch
Suitable location for audio monitor?	N	

Cavity Details		879
Cavity Height (m)	7	
Cavity Notes		
Loose bark		

Cavity Details		885
Cavity Height (m)	18	
Cavity Notes		
Loose bark		

Plot ID	BAT-S-M06-387	513
Location	Plot Notes	
Latitude:45.84644,Longitude:-80.591067,Altitude:201.3,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	Some trees smaller then 25cm with cavities	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	693
Species	Populus	Location
DBH (cm)	34	
Height (m)	4	
Canopy Cover (%)	50	
# of Cavities	6	Notes
Decay Class	5 Older dead tree	Long dead tree. Most bark peeled off. Small Woodpecker holes lead to inside tree
Suitable location for audio monitor?	Y	

Cavity Details		894
Cavity Height (m)	3	
Cavity Notes	Woodpecker hole	

Cavity Details		897
Cavity Height (m)	1	
Cavity Notes	Small Woodpecker hole. Leads to inside tree trunk.	

Cavity Details		900
Cavity Height (m)	2	
Cavity Notes	Small Woodpecker hole that leads to inside trunk	

Plot ID	BAT-S-M06-390	519
Location	Plot Notes	
Latitude:45.846707,Longitude:-80.591597,Altitude:207.2,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	Young trees, most are less than 25 cm dbh. Balsam fir dominant.	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		699
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.846659,Longitude:-80.591621,Altitude:210.8,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	
Height (m)	21		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Loose shaggy bark	
Suitable location for audio monitor?	N		
Cavity Details			909
Cavity Height (m)	3		
Cavity Notes	Woodpecker cavity, but also some loose bark.		
Tree ID	2		705
Species	Pinus strobus	Location	
DBH (cm)	51	Latitude:45.846661,Longitude:-80.591538,Altitude:211.2,Speed:0.0926,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	
Height (m)	10		
Canopy Cover (%)	80		
# of Cavities	5	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			915
Cavity Height (m)	3		
Cavity Notes	Many cavities in snag.		
Cavity Details			918

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 4

Cavity Notes

Many cavities on other side of snag also.

Plot ID BAT-S-M06-399 522

Location	Plot Notes
Latitude:45.846915,Longitude:-80.591398,Altitude:208.4,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:18:20 EDT	No suitable cavity trees with dbh equal to or greater than 25 cm found. Most trees are young with dbh less than 25 cm. Generally canopy cover is open (60%)

Map Number S-M05 Field Crew SARAH RICHER, ADAM MCCLELLAND 171

Feature ID	BAT-S-M10-40	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	4	
Start Date	4/13/2015 2:12:33 PM	Precipitation	2	
End Date	4/13/2015 4:55:35 PM	Cloud Cover	100.00	

Plot ID BAT-S-M05-463 504

Location	Plot Notes
Latitude:45.84911664786537,Longitude:-80.57784495644377,Altitude:141.8563173493836,Speed:0.5920533,Accuracy:15.0,Provider:gps,Time:04/13/2015 02:21:36 EDT	Balsam fir standMoose activityHeavy browse

Plot ID BAT-S-M05-466 507

Location	Plot Notes
Latitude:45.849191,Longitude:-80.578303,Altitude:196.4,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/13/2015 02:39:40 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		678
Species	Balsam poplar	Location	
DBH (cm)	51	Latitude:45.849178,Longitude:-80.578319,Altitude:196.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:28:35 EDT	
Height (m)	26		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			864
Cavity Height (m)	1		
Cavity Notes	1 m vertical crack in trunk		
Tree ID	2		684
Species	White birch	Location	
DBH (cm)	39	Latitude:45.849247,Longitude:-80.578191,Altitude:196.3,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:04/13/2015 02:39:40 EDT	
Height (m)	8		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Lots of loose bark	
Suitable location for audio monitor?	N		
Cavity Details			867
Cavity Height (m)	7		
Cavity Notes	Woodpecker hole surrounded by loose bark		
Plot ID	BAT-S-M05-461		510

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.848964,Longitude:-80.578266,Altitude:197.4,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/13/2015 03:01:00 EDT	Heavy moose browseScat and tracks present

Tree ID	1	687

Species	Trembling aspen	Location	
DBH (cm)	27	Latitude:45.848942,Longitude:-80.578232,Altitude:196.2,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/13/2015 03:05:01 EDT	
Height (m)	5		
Canopy Cover (%)	70		
# of Cavities	4	Notes	
Decay Class	6 Very old dead tree	Sounds hollow	
Suitable location for audio monitor?	Y		

Cavity Details		876
Cavity Height (m)	1	
Cavity Notes		
Cavity Details		882
Cavity Height (m)	3	
Cavity Notes		
Cavity Details		888
Cavity Height (m)	4	
Cavity Notes		
Cavity Details		891

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	

Plot ID	BAT-S-M05-460	516

Location	Plot Notes
Latitude:45.848859,Longitude:-80.578849,Altitude:195.7,Speed:0.05658889,Accuracy:2.0,Provider:gps,Time:04/13/2015 03:27:39 EDT	

Tree ID	1	696

Species	Yellow birch	Location
DBH (cm)	46	Latitude:45.848858,Longitude:-80.578805,Altitude:195.5,Speed:0.051444445,Accuracy:2.25,Provider:gps,Time:04/13/2015 03:30:31 EDT
Height (m)	18	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details	903
Cavity Height (m)	11
Cavity Notes	

Cavity Details	906
Cavity Height (m)	8
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		702
Species	Acer rubra	Location	
DBH (cm)	33	Latitude:45.848875,Longitude:-80.57883,Altitude:197.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/13/2015 03:38:57 EDT	
Height (m)	17		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			912
Cavity Height (m)	5		
Cavity Notes	2 holes		
Tree ID	3		708
Species	Yellow birch	Location	
DBH (cm)	49	Latitude:45.848945,Longitude:-80.578919,Altitude:198.8,Speed:0.030866666,Accuracy:2.0,Provider:gps,Time:04/13/2015 03:45:41 EDT	
Height (m)	20		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			921
Cavity Height (m)	5		
Cavity Notes			
Plot ID	BAT-S-M05-454		525

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.848579,Longitude:-80.579187,Altitude:203.1,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:	Ideal habitat for accipiters

Plot ID	BAT-S-M05-459	528

Location	Plot Notes
Latitude:45.848806,Longitude:-80.579376,Altitude:201.2,Speed:0.13375555,Accuracy:2.4,Provider:gps,Time:04/13/2015 04:20:44 EDT	71 cm dbh yellow birch just outside plot

Tree ID	1	711

Species	Yellow birch	Location
DBH (cm)	36	Latitude:45.848749,Longitude:-80.579375,Altitude:199.9,Speed:0.07716667,Accuracy:2.25,Provider:gps,Time:04/13/2015 04:27:59 EDT
Height (m)	16	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		924
Cavity Height (m)	6	
Cavity Notes		

Plot ID	BAT-S-M05-453	531

Location	Plot Notes
Latitude:45.848572,Longitude:-80.579834,Altitude:202.6,Speed:0.030866666,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:38:36 EDT	Small maple near swamp with deep cavity, at center of plot

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		714
Species	Eastern white cedar	Location	
DBH (cm)	37	Latitude:45.848635,Longitude:-80.579806,Altitude:198.4,Speed:0.010288889,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:47:13 EDT	
Height (m)	17		
Canopy Cover (%)	95		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	930
Cavity Height (m)	6
Cavity Notes	
Multiple cavities	

Cavity Details	933
Cavity Height (m)	2
Cavity Notes	
Multiple	

Cavity Details	936
Cavity Height (m)	6
Cavity Notes	

Map Number	S-M05	Field Crew	OLGA HROPACH		174
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/14/2015 3:43:23 PM	Precipitation	0		
End Date	4/14/2015 4:55:06 PM	Cloud Cover	0.00		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M05-395	534

Location	Plot Notes
Latitude:45.846862,Longitude:-80.58529,Altitude:197.0,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:18:20 EDT	

Tree ID	1	717

Species	Pinus strobus	Location
DBH (cm)	41	Latitude:45.846813,Longitude:-80.585302,Altitude:196.4,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/14/2015 12:18:20 EDT
Height (m)	12	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	Dead Pine. Lower peeling bark
Suitable location for audio monitor?	N	

Cavity Details		927
Cavity Height (m)	11	
Cavity Notes	Small Woodpecker hole	

Plot ID	BAT-S-M05-391	537

Location	Plot Notes
Latitude:45.846709,Longitude:-80.585713,Altitude:194.8,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/14/2015 12:18:20 EDT	Plot location moved to edge of FOC and SWT. Water too deep to walk through.

Map Number	BAT-S-M5	Field Crew	ADAM MCCLELLAND, SARAH RICHER	177

Feature ID	BAT-S-M5-451	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	1	
Start Date	4/14/2015 8:44:14 AM	Precipitation	0	
End Date	4/14/2015 4:09:56 PM	Cloud Cover	0.00	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M5-451	540

Location	Plot Notes
Latitude:45.848426,Longitude:-80.579709,Altitude:152.2,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/14/2015 08:46:26 EDT	Adjacent to open wetland, lots of yellow birch, some black spruce & balsam; owl hooting less than 30 m away

Tree ID	1	720

Species	ACER SP, Unknown maple, decayed	Location
DBH (cm)	48	Latitude:45.84843,Longitude:-80.579753,Altitude:161.0,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/14/2015 08:46:26 EDT
Height (m)	14	
Canopy Cover (%)	30	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	Peeling bark, no specific cavity
Suitable location for audio monitor?	N	

Plot ID	BAT-S-M5-444	543

Location	Plot Notes
Latitude:45.848239,Longitude:-80.580336,Altitude:0.0,Speed:0.025722222,Accuracy:100.0,Provider:gps,Time:04/14/2015 09:34:03 EDT	GPS is being crappy, plot is physically on the north end of open marsh, in treed swampy area

Plot ID	BAT-S-M5-437	546

Location	Plot Notes
Latitude:45.848099,Longitude:-80.580742,Altitude:184.5,Speed:0.025722222,Accuracy:2.7,Provider:gps,Time:04/14/2015 10:38:11 EDT	Mostly balsam, black spruce, trembling aspen; adjacent to open wetland

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		723
Species	Abies balsamea	Location	
DBH (cm)	33	Latitude:45.847918,Longitude:-80.580764,Altitude:184.9,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:38:11 EDT	
Height (m)	10		
Canopy Cover (%)	75		
# of Cavities	5	Notes	
Decay Class	5 Older dead tree	Large hole at base that ascends into tree center, as well as multiple cavities, adjacent to open rock outcrop	
Suitable location for audio monitor?	N		
Cavity Details			939
Cavity Height (m)	2		
Cavity Notes			
Multiple cavities all over tree			
Plot ID	BAT-S-M05-440		549
Location		Plot Notes	
Latitude:45.848078,Longitude:-80.581333,Altitude:189.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/14/2015 11:26:46 EDT		Mostly balsam fir, cedar, yellow & white birch & maple	
Tree ID	1		726
Species	Betula alleghaniensis	Location	
DBH (cm)	68	Latitude:45.848146,Longitude:-80.581372,Altitude:188.5,Speed:0.030866666,Accuracy:2.0,Provider:gps,Time:04/14/2015 11:26:46 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	4	Notes	
Decay Class	5 Older dead tree	Hollow to top	
Suitable location for audio monitor?	Y		
Cavity Details			942

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Multiple cavities of various sizes at various heights, tree hollow to the top

Tree ID	2		729
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.848206,Longitude:-80.581484,Altitude:189.7,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/14/2015 11:26:46 EDT	
Height (m)	18		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			945

Cavity Height (m)	7
Cavity Notes	15 cm long, natural cavity

Tree ID	3		732
Species	Betula alleghaniensis	Location	
DBH (cm)	32	Latitude:45.84825,Longitude:-80.581444,Altitude:192.7,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/14/2015 11:26:46 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			948

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	One cavity 2 m high, 1 3 m high, both natural cavities, both ascend into tree, both are connected in the center

Cavity Details 951

Cavity Height (m)	3
Cavity Notes	One cavity 2 m high, 1 3 m high, both natural cavities, both ascend into tree, both are connected in the center

Tree ID 4 735

Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.848088,Longitude:-80.581267,Altitude:198.3,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/14/2015 11:26:46 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details 954

Cavity Height (m)	1
Cavity Notes	Natural cavity, 40 cm long, ascends into tree

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5	738
Species	Acer rubrum	
DBH (cm)	37	
Height (m)	18	
Canopy Cover (%)	80	
# of Cavities	1	
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.848107,Longitude:-80.581295,Altitude:196.4,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/14/2015 11:26:46 EDT	
Notes	Surrounded by other suitable cavity trees	

Cavity Details		957
Cavity Height (m)	2	
Cavity Notes	Long natural cavity, ascends into tree, 70 cm long by 8 cm, broken branch shelters part of opening	

Plot ID	BAT-S-M05-434	552
Location	Latitude:45.847848,Longitude:-80.581636,Altitude:201.9,Speed:0.09774444,Accuracy:3.0,Provider:gps,Time:04/14/2015 01:04:03 EDT	
Plot Notes	Most of trees here less than 25 cm dbh; plot is very rolling, rocky topography, open & mossy, mostly white pine, balsam	

Plot ID	BAT-S-M05-431	555
Location	Latitude:45.847707,Longitude:-80.58218,Altitude:201.1,Speed:0.08231111,Accuracy:2.4,Provider:gps,Time:04/14/2015 01:20:38 EDT	
Plot Notes	Includes a large red pine & a large white pine; mostly small balsam, maple, poplar, some hemlock & black spruce, dense tree cover	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		741
Species	Balsam poplar	Location	
DBH (cm)	33	Latitude:45.847714,Longitude:-80.582246,Altitude:201.0,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/14/2015 01:20:38 EDT	
Height (m)	20		
Canopy Cover (%)	90		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree	Minimum 3 cavities, all old Woodpecker nest cavities, likely yellow-bellied Sapsucker. Another cavity of unknown origin near top of tree, may be old PIWO nest or natural cavity from healed lost branch	
Suitable location for audio monitor?	N		

Cavity Details		960
Cavity Height (m)	12	
Cavity Notes	Old woodpecker nest cavity; tablet camera doesn't show it due to location of sun	

Cavity Details		963
Cavity Height (m)	13	
Cavity Notes	Old YBSA nest hole	

Cavity Details		966
Cavity Height (m)	15	
Cavity Notes	Old YBSA nest hole	

Plot ID	BAT-S-M05-418		558
Location		Plot Notes	
Latitude:45.847467,Longitude:-80.58287,Altitude:210.7,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/14/2015 01:58:29 EDT		Swampy; balsam fir, black spruce, young red maple, lots of moose sign	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		744
Species	Acer rubrum	Location	
DBH (cm)	44	Latitude:45.847476,Longitude:-80.582943,Altitude:211.6,Speed:0.12861112,Accuracy:2.4,Provider:gps,Time:04/14/2015 02:05:39 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Large older bole with two younger stems growing from base	
Suitable location for audio monitor?	N		
Cavity Details			969
Cavity Height (m)	5		
Cavity Notes			
In small broken branch stub off main bole			
Plot ID	BAT-S-M05-420		561
Location		Plot Notes	
Latitude:45.847427,Longitude:-80.583386,Altitude:211.4,Speed:0.12861112,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:20:26 EDT		Swampy, lots of moose sign (scat, tracks, hair). Mostly balsam, black spruce, red maple	
Tree ID	1		747
Species	Pinus strobus	Location	
DBH (cm)	40	Latitude:45.847467,Longitude:-80.583247,Altitude:208.4,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/14/2015 02:20:26 EDT	
Height (m)	13		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Multiple other cavities that are from foraging woodpeckers, not white deep enough for shelter.	
Suitable location for audio monitor?	N		
Cavity Details			972

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	Faces north

Plot ID	BAT-S-M05-414	564

Location	Plot Notes
Latitude:45.84736456651991,Longitude:-80.58376387533359,Altitude:168.19001617189497,Speed:6.539603,Accuracy:10.0,Provider:gps,Time:04/14/2015 02:53:59 EDT	Plot rocky-hilly, white pine, balsam fir, spruce

Plot ID	BAT-S-M5-396	567

Location	Plot Notes
Latitude:45.84728393834013,Longitude:-80.5845267947957,Altitude:177.49583691898732,Speed:0.11817097,Accuracy:25.0,Provider:gps,Time:04/14/2015 03:08:29 EDT	Mostly conifer - spruce, balsam fir, pine

Plot ID	BAT-S-M5-402	570

Location	Plot Notes
Latitude:45.84703897643024,Longitude:-80.58402360932027,Altitude:157.618743678974,Speed:0.035753425,Accuracy:10.0,Provider:gps,Time:04/14/2015 03:23:29 EDT	Mostly white pine

Tree ID	1	750

Species	Populus balsamifera	Location	
DBH (cm)	35	Latitude:45.84708403168863,Longitude:-80.58483572408201,Altitude:192.20944254822098,Speed:0.183361,Accuracy:10.0,Provider:gps,Time:04/14/2015 03:36:25 EDT	
Height (m)	8		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Edge of small open rock outcrop	
Suitable location for audio monitor?	Y		

Cavity Details	975

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 7

Cavity Notes

Tree at edge of small rock outcrop, cavity 20 cm by 10 cmAscends into centre of tree, might connect with other cavity

Cavity Details 978

Cavity Height (m) 7

Cavity Notes

Ascends into centre of tree, might connect with other cavity

Plot ID BAT-S-M05-400 573

Location

Latitude:45.84711134482539,Longitude:-80.58484314988392,Altitude:141.84436307849379,Speed:0.17703149,Accuracy:25.0,Provider:gps,Time:04/14/2015 03:51:57 EDT

Plot Notes

Rocky-hilly, moose rubs present, next to small rick outcrop, mostly balsam fir and white pine, some spruce

Tree ID 1 753

Species Populus balsamifera

DBH (cm) 37

Height (m) 21

Canopy Cover (%) 55

# of Cavities 1

Decay Class 4 Recently dead tree

Suitable location for audio monitor? N

Location

Latitude:45.846921457363884,Longitude:-80.58503837596602,Altitude:134.36086840622266,Speed:0.08938172,Accuracy:10.0,Provider:gps,Time:04/14/2015 03:56:24 EDT

Notes

Cavity Details 981

Cavity Height (m) 8

Cavity Notes

Long split crack in tree's main bole, cavity ascends into tree at top, approximately 2m long

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		756
Species	Populus balsamifera	Location	
DBH (cm)	29	Latitude:45.84687772210638,Longitude:-80.58493026338282,Altitude:167.83639026163146,Speed:0.16656823,Accuracy:10.0,Provider:gps,Time:04/14/2015 04:02:41 EDT	
Height (m)	11		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Multiple cavities all over tree	
Suitable location for audio monitor?	Y		

Cavity Details			984
Cavity Height (m)	3		
Cavity Notes	Multiple cavities on tree; one of note is long hollowed entrance to center of tree, ascends further inside tree, over 1 m tall/long		

Map Number	S-M29	Field Crew	AMY INGRISELLI, NATALIA SIMONOVA		180
Feature ID	BAT-S-M29-338	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1	Nice day, heavy rain yesterday. Site is wet.	
Start Date	4/14/2015 9:58:35 AM	Precipitation	0		
End Date	4/14/2015 9:59:23 AM	Cloud Cover	0.00		

Plot ID	BAT-S-M29-338		576
Location		Plot Notes	
Latitude:45.840347,Longitude:-80.59182,Altitude:196.8,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/14/2015 08:26:31 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		759
Species	Acer sp	Location	
DBH (cm)	36	Latitude:45.840336,Longitude:-80.591817,Altitude:197.0,Speed:0.11832222,Accuracy:1.5,Provider:gps,Time:04/14/2015 08:26:31 EDT	
Height (m)	8		
Canopy Cover (%)	40		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		987
Cavity Height (m)	0	
Cavity Notes	Cavity lift bark and cracks trunk	

Cavity Details		990
Cavity Height (m)	0	
Cavity Notes	*	

Cavity Details		993
Cavity Height (m)	2	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		765
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.84023757880769,Longitude:-80.59205359981402,Altitude:170.28265442545526,Speed:0.9901313,Accuracy:10.0,Provider:gps,Time:04/14/2015 10:16:46 EDT	
Height (m)	20		
Canopy Cover (%)	65		
# of Cavities	4	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		

Cavity Details		999
Cavity Height (m)	2	
Cavity Notes	Cavity from old broken branch deep	

Cavity Details		1005
Cavity Height (m)	3	
Cavity Notes	*	

Cavity Details		1008
Cavity Height (m)	5	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		771
Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.84024087293281,Longitude:-80.59203371461624,Altitude:178.42105074971914,Speed:0.6266601,Accuracy:20.0,Provider:gps,Time:04/14/2015 10:23:17 EDT	
Height (m)	6		
Canopy Cover (%)	65		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		1011
Cavity Height (m)	0	
Cavity Notes	Cavity from cracked trunk and bark	

Cavity Details		1014
Cavity Height (m)	1	
Cavity Notes	*	

Cavity Details		1017
Cavity Height (m)	1	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		774
Species	Acer saccharum	Location	
DBH (cm)	29	Latitude:45.840159743409195,Longitude:-80.59197315375238,Altitude:157.25430628983304,Speed:0.29473272,Accuracy:10.0,Provider:gps,Time:04/14/2015 10:28:11 EDT	
Height (m)	4		
Canopy Cover (%)	55		
# of Cavities	3	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details		1020
Cavity Height (m)	1	
Cavity Notes	The center void with additional interior cavities	

Cavity Details		1023
Cavity Height (m)	5	
Cavity Notes	*	

Cavity Details		1026
Cavity Height (m)	0	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5	777
Species	Acer rubrum	Location
DBH (cm)	38	Latitude:45.840335047213976,Longitude:-80.59179657329278,Altitude:158.23802472134122,Speed:0.20659228,Accuracy:10.0,Provider:gps,Time:04/14/2015 10:37:42 EDT
Height (m)	25	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details 1029

Cavity Height (m)	10

Cavity Notes

Cavity lifted pilling bark in trunk

Plot ID	BAT-S-M29-340	585
Location	Latitude:45.84080222349465,Longitude:-80.591517139564,Altitude:170.73820785861463,Speed:0.6483681,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:05:17 EDT	Plot Notes: No suitable trees, small dbh

Plot ID	BAT-S-M29-339	588
Location	Latitude:45.84054911174019,Longitude:-80.59046353628257,Altitude:164.40987673401833,Speed:0.63940907,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:26:10 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	786
Species	Acer rubrum	Location
DBH (cm)	29	Latitude:45.8406952929006,Longitude:-80.5903524250832,Altitude:204.82745066513309,Speed:0.5862572,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:30:15 EDT
Height (m)	6	
Canopy Cover (%)	65	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details 1038

Cavity Height (m)	0
Cavity Notes	Cavity deep from broken bark

Cavity Details 1044

Cavity Height (m)	1
Cavity Notes	*

Cavity Details 1047

Cavity Height (m)	3
Cavity Notes	*

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		792
Species	Acer rubrum	Location	
DBH (cm)	33	Latitude:45.84043708553172,Longitude:-80.59033063689525,Altitude:157.56404237044043,Speed:0.21339327,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:34:50 EDT	
Height (m)	18		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1053
Cavity Height (m)	6		
Cavity Notes	Cavity from lifting bark trunk		

Tree ID	3		798
Species	Acer rubrum	Location	
DBH (cm)	27	Latitude:45.840290982864246,Longitude:-80.59049781479169,Altitude:166.73345897272227,Speed:0.68959683,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:40:36 EDT	
Height (m)	15		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1062
Cavity Height (m)	1		
Cavity Notes	*		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		807
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.840421234631435,Longitude:-80.59039265421316,Altitude:133.90413408123104,Speed:1.4904649,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:42:48 EDT	
Height (m)	16		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1068
Cavity Height (m)	1	
Cavity Notes	Cavity lifting piling bark	

Cavity Details		1074
Cavity Height (m)	2	
Cavity Notes	*	

Cavity Details		1077
Cavity Height (m)	3	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5	813
Species	Acer rubrum	Location
DBH (cm)	30	Latitude:45.84061446883017,Longitude:-80.59028423223077,Altitude:162.66775386156516,Speed:0.39689872,Accuracy:10.0,Provider:gps,Time:04/14/2015 11:46:59 EDT
Height (m)	4	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1083
Cavity Height (m)	0	
Cavity Notes	*	

Cavity Details		1089
Cavity Height (m)	3	
Cavity Notes	*	

Plot ID	BAT-S-M29-341	591
Location	Latitude:45.84089,Longitude:-80.590749,Altitude:204.0,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:21:20 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		822
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.840891,Longitude:-80.590762,Altitude:203.7,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:21:20 EDT	
Height (m)	5		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1095
Cavity Height (m)	0		
Cavity Notes	*		
Cavity Details			1098
Cavity Height (m)	4		
Cavity Notes	*		
Tree ID	2		825
Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.840937,Longitude:-80.590795,Altitude:203.9,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:21:20 EDT	
Height (m)	12		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Also lifting, peeling bark providing suitable cover	
Suitable location for audio monitor?	N		
Cavity Details			1104

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Suitable vertical cavity in trunk, plus lifting, peeling bark on trunk between 2 and 10 m high

Tree ID	3	831

Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.840951,Longitude:-80.590943,Altitude:205.9,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/14/2015 12:21:20 EDT	
Height (m)	17		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	1107

Cavity Height (m)	0
Cavity Notes	*

Cavity Details	1110

Cavity Height (m)	2
Cavity Notes	*

Plot ID	BAT-S-M29-342	609

Location	Plot Notes
Latitude:45.841083,Longitude:-80.591874,Altitude:193.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/14/2015 01:04:09 EDT	No trees with suitable dbh or cavities. Dense shrub layer.

Plot ID	BAT-S-N29-344	615

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.841576,Longitude:-80.591876,Altitude:199.5,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/14/2015 01:23:06 EDT	

Tree ID	1	837

Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.841591,Longitude:-80.591947,Altitude:200.8,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/14/2015 01:23:06 EDT	
Height (m)	18		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1116
Cavity Height (m)	0	
Cavity Notes		
Pillow bark cavity		

Cavity Details		1122
Cavity Height (m)	1	
Cavity Notes		
*		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		846
Species	Pinus strobus	Location	
DBH (cm)	26	Latitude:45.841532,Longitude:-80.591985,Altitude:201.9,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 01:23:06 EDT	
Height (m)	14		
Canopy Cover (%)	45		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		1128
Cavity Height (m)	1	
Cavity Notes	*	

Cavity Details		1131
Cavity Height (m)	5	
Cavity Notes	*	

Plot ID	BAT-S-M29-345		624
Location		Plot Notes	
Latitude:45.841537,Longitude:-80.590868,Altitude:199.8,Speed:0.08231111,Accuracy:1.75,Provider:gps,Time:04/14/2015 01:50:28 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	852
Species	Acer rubrum	
DBH (cm)	27	
Height (m)	18	
Canopy Cover (%)	65	
# of Cavities	1	
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.841537,Longitude:-80.590872,Altitude:200.2,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 01:50:28 EDT	
Notes		
Cavity Details		1137
Cavity Height (m)	1	
Cavity Notes	Cavity from lifting bark	
Plot ID	BAT-S-M29-347	627
Location	Latitude:45.841635,Longitude:-80.590339,Altitude:198.7,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/14/2015 01:50:28 EDT	
Plot Notes	No trees with suitable dbh and/or cavities. Conifer dominated or small dbh.	
Plot ID	BAT-S-M29-343	630
Location	Latitude:45.841337,Longitude:-80.590059,Altitude:204.4,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 02:24:13 EDT	
Plot Notes	No trees with suitable dbh. Dense shrub layer.	
Plot ID	BAT-S-M29-346	636
Location	Latitude:45.841537,Longitude:-80.589598,Altitude:206.3,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/14/2015 02:38:37 EDT	
Plot Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	858
Species	Acer rubrum	Location
DBH (cm)	39	Latitude:45.841537,Longitude:-80.589598,Altitude:206.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/14/2015 02:38:37 EDT
Height (m)	17	
Canopy Cover (%)	45	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		1143
Cavity Height (m)	5	
Cavity Notes	Lifted bark in crack cavity	

Cavity Details		1146
Cavity Height (m)	3	
Cavity Notes	*	

Plot ID	BAT-S-M29-349	642
Location	Latitude:45.84198,Longitude:-80.589249,Altitude:201.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:53:22 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	870
Species	Pinus strobus	Location
DBH (cm)	34	Latitude:45.841944,Longitude:-80.589189,Altitude:200.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/14/2015 02:53:22 EDT
Height (m)	3	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1155
Cavity Height (m)	2	
Cavity Notes		
Plot ID	BAT-S-M29-355	645
Location		Plot Notes
Latitude:45.842576,Longitude:-80.589121,Altitude:201.1,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 03:08:59 EDT		Treed site but unsuitable dbh and/or cavities.
Plot ID	BAT-S-M29-361	648
Location		Plot Notes
Latitude:45.843121,Longitude:-80.588909,Altitude:198.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 03:27:16 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	873
Species	Pinus strobus	Location
DBH (cm)	28	Latitude:45.843165,Longitude:-80.588798,Altitude:200.6,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/14/2015 03:27:16 EDT
Height (m)	18	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	1158
Cavity Height (m)	4
Cavity Notes	Dead branch cavity

Map Number	BAT-S-M5	Field Crew	SARAH RICHER, ADAM MCCLELLAND 183

Feature ID	BAT-S-M5-452	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	1	
Start Date	4/14/2015 5:27:10 PM	Precipitation	0	
End Date	4/14/2015 5:27:14 PM	Cloud Cover	0.00	

Plot ID	BAT-S-M5-452	579
Location	Latitude:45.848354,Longitude:-80.58042,Altitude:178.7,Speed:0.020577777,Accuracy:2.7,Provider:gps,Time:04/14/2015 09:52:47 EDT	Plot Notes: GPS on this tablet sucks, having to make up these plots as we go along, couldn't they have just given us the utm coordinates instead.White pine, yellow & white birch, tamarack, black spruce & balsam

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		762
Species	Betula papyrifera	Location	
DBH (cm)	55	Latitude:45.848362,Longitude:-80.580459,Altitude:180.2,Speed:0.07202222,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:52:47 EDT	
Height (m)	20		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Cavity is approximately 45 cm by 20 cm, doesn't show up well in picture due to location of sun, cavity faces north, does go up further into tree center	
Suitable location for audio monitor?	N		
Cavity Details			996
Cavity Height (m)	8		
Cavity Notes	See tree notes		
Tree ID	2		768
Species	Betula alleghaniensis	Location	
DBH (cm)	40	Latitude:45.848392,Longitude:-80.580425,Altitude:184.8,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/14/2015 10:11:24 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Still alive with buds, top broken off	
Suitable location for audio monitor?	N		
Cavity Details			1002
Cavity Height (m)	1		
Cavity Notes	Cavity faces east/southeast, ascends further into tree, approximately 30cm by 8 cm, natural cavity		
Map Number	S-M04	Field Crew	KRISTAN WASHBURN 186

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID	HNV SOUTH 4	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	4		
Start Date	4/13/2015 1:56:50 PM	Precipitation	1		
End Date	4/13/2015 5:19:48 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M04-547	582

Location	Plot Notes
Latitude:45.853715,Longitude:-80.573383,Altitude:201.0,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/13/2015 03:07:41 EDT	

Tree ID	1	780

Species	Acer rubrum	Location	
DBH (cm)	54	Latitude:45.85329,Longitude:-80.573277,Altitude:184.8,Speed:0.19548889,Accuracy:2.4,Provider:gps,Time:04/13/2015 01:54:29 EDT	
Height (m)	10		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1032

Cavity Height (m)	5

Cavity Notes

Hollow tree. Cavity runs up whole tree

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		783
Species	Acer rubrum	Location	
DBH (cm)	42	Latitude:45.853433,Longitude:-80.573209,Altitude:185.4,Speed:0.13375555,Accuracy:2.4,Provider:gps,Time:04/13/2015 01:54:29 EDT	
Height (m)	14		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1035
Cavity Height (m)	7		
Cavity Notes	10 cm downward cavity		
Cavity Details			1041
Cavity Height (m)	8		
Cavity Notes	Crevace between 2 branches		
Tree ID	3		789
Species	Fraxinus nigra	Location	
DBH (cm)	35	Latitude:45.853493,Longitude:-80.572917,Altitude:185.0,Speed:0.087455556,Accuracy:2.4,Provider:gps,Time:04/13/2015 02:13:22 EDT	
Height (m)	15		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1050

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	9
Cavity Notes	Hole where branch has dropped

Tree ID	4		795
Species	Acer rubrum	Location	
DBH (cm)	45	Latitude:45.853827,Longitude:-80.573141,Altitude:199.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:39:24 EDT	
Height (m)	16		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Loose bark , decaying branches	
Suitable location for audio monitor?	Y		
Cavity Details			1056

Cavity Height (m)	8
Cavity Notes	Great peeling bark

Tree ID	5		801
Species	Acer rubrum	Location	
DBH (cm)	57	Latitude:45.853864,Longitude:-80.573126,Altitude:199.7,Speed:0.19548889,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:39:24 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1059

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Good peeling bark

Tree ID	6		804
Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.853799,Longitude:-80.573385,Altitude:197.4,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:48:01 EDT	
Height (m)	17		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class			
Suitable location for audio monitor?	N		

Cavity Details	1065
Cavity Height (m)	7
Cavity Notes	

Cavity Details	1071
Cavity Height (m)	7
Cavity Notes	Large hole

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	7		810
Species	Acer rubrum	Location	
DBH (cm)	37	Latitude:45.853806,Longitude:-80.573476,Altitude:198.1,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:48:01 EDT	
Height (m)	11		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1080
Cavity Height (m)	4	
Cavity Notes	At fork of branch	

Tree ID	8		816
Species	Acer rubrum	Location	
DBH (cm)	42	Latitude:45.853741,Longitude:-80.573633,Altitude:193.7,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/13/2015 02:59:20 EDT	
Height (m)	18		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1086
Cavity Height (m)	12	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	9	819
Species	Betula alleghaniensis	Location
DBH (cm)	57	
Height (m)	16	
Canopy Cover (%)	90	
# of Cavities	7	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		1092
Cavity Height (m)	5	
Cavity Notes	Significant crack up side, peeling bark, etc	

Plot ID	BAT-S-M04-529	594
Location	Latitude:45.852587,Longitude:-80.572946,Altitude:194.5,Speed:0.72536665,Accuracy:1.75,Provider:gps,Time:04/13/2015 03:13:13 EDT	Plot Notes: Mostly conifer with a few larger Populus tremuloides but no suitable cavities

Plot ID	BAT-S-M04-502	597
Location	Latitude:45.850611,Longitude:-80.57507,Altitude:187.5,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/13/2015 03:47:54 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	828
Species	Populus balsamifera	Location
DBH (cm)	57	Latitude:45.850458,Longitude:-80.575097,Altitude:190.4,Speed:0.11832222,Accuracy:1.5,Provider:gps,Time:04/13/2015 03:47:54 EDT
Height (m)	18	
Canopy Cover (%)	20	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details		1101
Cavity Height (m)	1	
Cavity Notes		

Plot ID	BAT-S-M04-496	600
Location		Plot Notes
Latitude:45.850271,Longitude:-80.57548,Altitude:191.0,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:07:01 EDT		

Plot ID	BAT-S-M04-492	603
Location		Plot Notes
Latitude:45.850153,Longitude:-80.576173,Altitude:192.0,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:11:40 EDT		

Plot ID	BAT-S-M04-481	606
Location		Plot Notes
Latitude:45.849926,Longitude:-80.576575,Altitude:194.4,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:16:11 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		834
Species	Betula alleghaniensis	Location	
DBH (cm)	51	Latitude:45.849926,Longitude:-80.576575,Altitude:194.4,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/13/2015 04:16:11 EDT	
Height (m)	22		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1113
Cavity Height (m)	8		
Cavity Notes	Scraggly bark some suitable. Dead limbs		
Plot ID	BAT-S-M04-480		612
Location	Latitude:45.849744,Longitude:-80.576866,Altitude:190.7,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:25:08 EDT	Plot Notes	
Plot ID	BAT-S-M04-471		618
Location	Latitude:45.849581,Longitude:-80.577149,Altitude:190.5,Speed:0.025722222,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:27:20 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		840
Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.849626,Longitude:-80.577164,Altitude:190.0,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/13/2015 04:27:20 EDT	
Height (m)	8		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1119
Cavity Height (m)	7		
Cavity Notes			
Tree ID	2		843
Species	Populus tremuloides	Location	
DBH (cm)	40	Latitude:45.849637,Longitude:-80.577143,Altitude:189.5,Speed:0.0463,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:27:20 EDT	
Height (m)	8		
Canopy Cover (%)	20		
# of Cavities	4	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1125
Cavity Height (m)	4		
Cavity Notes			
Plot ID	BAT-S-M04-490		621

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.84997,Longitude:-80.575766,Altitude:170.3,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:04/13/2015 04:37:32 EDT	

Tree ID	1	849

Species	Populus tremuloides	Location	
DBH (cm)	59	Latitude:45.849859,Longitude:-80.575672,Altitude:174.9,Speed:0.06173333,Accuracy:2.4,Provider:gps,Time:04/13/2015 04:37:32 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1134

Cavity Height (m)	8
Cavity Notes	

Map Number	S-M06	Field Crew	KRISTA WASHBURN AND KASEY MCKENZIE	189

Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes
Tablet	AECOM1	Wind Speed (beaufort)	2	
Start Date	4/14/2015 8:00:04 AM	Precipitation	0	
End Date	4/14/2015 5:00:01 PM	Cloud Cover	0.00	

Plot ID	BAT-S-M6-401	633

Location	Plot Notes
Latitude:45.847035,Longitude:-80.592212,Altitude:175.5,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/14/2015 09:12:04 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		855
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.847046,Longitude:-80.592194,Altitude:179.7,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	5	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1140
Cavity Height (m)	18		
Cavity Notes	Failed branches leaving holes		
Tree ID	2		861
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.847067,Longitude:-80.592108,Altitude:192.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1149
Cavity Height (m)	3		
Cavity Notes	Nice furrowed holes		
Plot ID	BAT-S-M6-410		639

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847071,Longitude:-80.592088,Altitude:192.9,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:12:04 EDT	

Tree ID	1	864

Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.847236,Longitude:-80.591955,Altitude:187.9,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	1152

Cavity Height (m)	10

Cavity Notes

Failed branches and furrows

Tree ID	2	867

Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.847181,Longitude:-80.59182,Altitude:186.9,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	19		
Canopy Cover (%)	60		
# of Cavities	4	Notes	
Decay Class	1 Healthy, live tree	Older trees lots of furrow	
Suitable location for audio monitor?	N		

Cavity Details	1161

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Small furrows into open hollow

Tree ID	3		876
Species	Acer rubrum	Location	
DBH (cm)	35	Latitude:45.84717,Longitude:-80.591808,Altitude:188.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1164
Cavity Height (m)	8
Cavity Notes	Crack up side of tree

Plot ID	BAT-S-M6-411		651
Location		Plot Notes	
Latitude:45.847246,Longitude:-80.592459,Altitude:184.3,Speed:0.5093,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:12:04 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		879
Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.847254,Longitude:-80.592701,Altitude:185.1,Speed:0.1389,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	6		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1167
Cavity Height (m)	3		
Cavity Notes			
Tree ID	2		882
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.847301,Longitude:-80.59265,Altitude:187.1,Speed:0.010288889,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	15		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1170
Cavity Height (m)	4		
Cavity Notes			
Plot ID	BAT-S-M6-417		654

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847281,Longitude:-80.592668,Altitude:188.1,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:04/14/2015 09:12:04 EDT	

Tree ID	1	885

Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.847385,Longitude:-80.592123,Altitude:196.2,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/14/2015 09:12:04 EDT	
Height (m)	18		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1173
Cavity Height (m)	10	
Cavity Notes		

Plot ID	BAT-S-M6-419	657

Location	Plot Notes
Latitude:45.84752,Longitude:-80.592904,Altitude:191.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/14/2015 10:24:26 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		888
Species	Populus tremuloides	Location	
DBH (cm)	52	Latitude:45.847534,Longitude:-80.5928,Altitude:193.6,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	23		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1176
Cavity Height (m)	20		
Cavity Notes	Crack up side		
Tree ID	2		891
Species	Betula papyrifera	Location	
DBH (cm)	31	Latitude:45.84753,Longitude:-80.592784,Altitude:192.7,Speed:0.17491111,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	12		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1179
Cavity Height (m)	10		
Cavity Notes	Likely hollow at top where branches broken		
Plot ID	BAT-S-M6-427		660

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847705,Longitude:-80.592592,Altitude:188.8,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	

Plot ID: BAT-S-M6-425 663

Location	Plot Notes
Latitude:45.847637,Longitude:-80.593261,Altitude:189.8,Speed:0.17491111,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	

Tree ID: 1 894

Species	Acer rubrum	Location	
DBH (cm)	44	Latitude:45.847641,Longitude:-80.593264,Altitude:189.7,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details 1182

Cavity Height (m): 13

Cavity Notes

Furrowed bark and cracks

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	897
Species	Unknown	Location
DBH (cm)	43	Latitude:45.847684,Longitude:-80.593369,Altitude:189.3,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT
Height (m)	8	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1185
Cavity Height (m)	8	
Cavity Notes	A number of woodpecker holes that are not likely suitable may be a decent cavity at top	
Plot ID	BAT-S-M6-433	666
Location	Latitude:45.847672,Longitude:-80.593378,Altitude:189.6,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	Plot Notes
Tree ID	1	900
Species	Populus tremuloides	Location
DBH (cm)	58	Latitude:45.847925,Longitude:-80.593458,Altitude:188.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT
Height (m)	30	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1188

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	25
Cavity Notes	Cracks in bark and failed branches no obvious cavities but super old and large tree

Plot ID	BAT-S-M6-430	669

Location	Plot Notes
Latitude:45.847709,Longitude:-80.593922,Altitude:191.3,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	Moved slightly because of large deep wet area

Tree ID	1	903

Species	Acer rubrum	Location
DBH (cm)	43	Latitude:45.847709,Longitude:-80.593922,Altitude:191.3,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT
Height (m)	14	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	1191

Cavity Height (m)	10
Cavity Notes	Some furrowed bark where to cavities meet

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		906
Species	Populus tremuloides	Location	
DBH (cm)	35	Latitude:45.847712,Longitude:-80.593903,Altitude:190.8,Speed:0.15433334,Accuracy:1.8,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	8		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1194
Cavity Height (m)	5		
Cavity Notes			
Tree ID	3		909
Species	Populus tremuloides	Location	
DBH (cm)	52	Latitude:45.847698,Longitude:-80.593858,Altitude:190.7,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	6		
Canopy Cover (%)	30		
# of Cavities	8	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1197
Cavity Height (m)	8		
Cavity Notes	Lots if holes all over		
Plot ID	BAT-S-M6-422		672

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847613,Longitude:-80.593972,Altitude:194.4,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:24:26 EDT	

Tree ID	1	912

Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.847597,Longitude:-80.594403,Altitude:197.1,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/14/2015 10:24:26 EDT	
Height (m)	16		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1200
Cavity Height (m)	3	
Cavity Notes		

Plot ID	BAT-S-M6-421	675

Location	Plot Notes
Latitude:45.847609,Longitude:-80.595085,Altitude:196.9,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:03:38 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		915
Species	Populus tremuloides	Location	
DBH (cm)	42	Latitude:45.847609,Longitude:-80.595085,Altitude:196.9,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:03:38 EDT	
Height (m)	28		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1203
Cavity Height (m)	20		
Cavity Notes			
Tree ID	2		918
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.847593,Longitude:-80.59505,Altitude:197.7,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:03:38 EDT	
Height (m)	16		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1206
Cavity Height (m)	10		
Cavity Notes	Furrowed bark with some cracks		
Plot ID	BAT-S-M6-407		678

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847167,Longitude:-80.595254,Altitude:197.9,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:24:02 EDT	

Tree ID	1	921

Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.847167,Longitude:-80.595254,Altitude:197.9,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:24:02 EDT	
Height (m)	14		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		

Cavity Details	1209

Cavity Height (m)	12
Cavity Notes	
Furrowed Bark and one cavity from a broken branch	

Tree ID	2	924

Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:	
Height (m)	10		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		

Cavity Details	1212

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Furrowed Barn and failed branches

Plot ID	BAT-S-M6-416	681

Location	Plot Notes
Latitude:45.847463,Longitude:-80.595007,Altitude:197.7,Speed:0.5093,Accuracy:2.7,Provider:gps,Time:04/14/2015 12:52:14 EDT	

Tree ID	1	927

Species	Acer rubrum	Location
DBH (cm)	26	Latitude:45.847393,Longitude:-80.594848,Altitude:200.4,Speed:0.08231111,Accuracy:2.7,Provider:gps,Time:04/14/2015 12:52:14 EDT
Height (m)	12	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	1215

Cavity Height (m)	7
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		930
Species	Betula papyrifera	Location	
DBH (cm)	36	Latitude:45.84739,Longitude:-80.594818,Altitude:198.4,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:52:14 EDT	
Height (m)	10		
Canopy Cover (%)	0		
# of Cavities	5	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1218
Cavity Height (m)	8		
Cavity Notes			
Plot ID	BAT-S-M6-393		684
Location		Plot Notes	
Latitude:45.84678,Longitude:-80.596861,Altitude:196.8,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:52:14 EDT			
Tree ID	1		933
Species	Acer rubrum	Location	
DBH (cm)	33	Latitude:45.84678,Longitude:-80.596861,Altitude:196.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/14/2015 12:52:14 EDT	
Height (m)	15		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1221

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	Barn coming off branches where they connect to tree leaving good holes

Tree ID	2		936
Species	Acer rubrum	Location	
DBH (cm)	40	Latitude:45.846725,Longitude:-80.59702,Altitude:199.0,Speed:0.29323334,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT	
Height (m)	18		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 1224

Cavity Height (m)	6
Cavity Notes	Furrowed bark and failed branches

Plot ID	BAT-S-M6-386		687
Location		Plot Notes	
Latitude:45.846385,Longitude:-80.596687,Altitude:198.8,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	939
Species	Betula papyrifera	Location
DBH (cm)	30	Latitude:45.846385,Longitude:-80.596687,Altitude:198.8,Speed:0.087455556,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT
Height (m)	15	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1227
Cavity Height (m)	16	
Cavity Notes		
Tree ID	2	942
Species	Betula papyrifera	Location
DBH (cm)	25	Latitude:45.846356,Longitude:-80.596674,Altitude:201.2,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT
Height (m)	8	
Canopy Cover (%)	10	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	
Plot ID	BAT-S-M7-392	690
Location		Plot Notes
Latitude:45.84649,Longitude:-80.597973,Altitude:209.4,Speed:0.5761778,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	945
Species	Acer rubrum	Location
DBH (cm)	27	Latitude:45.846688,Longitude:-80.597873,Altitude:199.2,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/14/2015 12:52:14 EDT
Height (m)	12	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		1230
Cavity Height (m)	3	
Cavity Notes		

Plot ID	BAT-S-M7-404	693
Location	Plot Notes	
Latitude:45.847134,Longitude:-80.598303,Altitude:205.8,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:52:14 EDT		

Plot ID	BAT-S-M6-415	696
Location	Plot Notes	
Latitude:45.847295,Longitude:-80.597042,Altitude:200.2,Speed:0.15433334,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:52:14 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		948
Species	Populus tremuloides	Location	
DBH (cm)	33	Latitude:45.847295,Longitude:-80.597042,Altitude:200.2,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/14/2015 12:52:14 EDT	
Height (m)	7		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1233
Cavity Height (m)	7		
Cavity Notes			
Map Number	S-M7	Field Crew	KISTAN WASHBURN AND KASEY MCKENZIE 192
Feature ID		Study Area	WEC
Project Number	60341251	Air Temp. (degC)	4.00
Tablet	AECOM1	Wind Speed (beaufort)	2
Start Date	4/15/2015 8:02:09 AM	Precipitation	0
End Date	4/15/2015 1:12:46 PM	Cloud Cover	0.00
Weather Notes			
Plot ID	BAT-S-M7-385		699
Location		Plot Notes	
Latitude:45.846099,Longitude:-80.59988,Altitude:199.8,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:25:21 EDT		Low GPS signal	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		951
Species	Acer rubrum	Location	
DBH (cm)	50	Latitude:45.846099,Longitude:-80.59988,Altitude:199.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:25:40 EDT	
Height (m)	17		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			1236
Cavity Height (m)	4		
Cavity Notes	Good deep crack up side and some loose bark		
Tree ID	2		954
Species	Acer rubrum	Location	
DBH (cm)	33	Latitude:45.846087,Longitude:-80.59991,Altitude:198.3,Speed:0.036011111,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:29:48 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			1239
Cavity Height (m)	8		
Cavity Notes	Loose Barn and a few cracks		
Plot ID	BAT-S-M7-380		702

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.845848,Longitude:-80.600371,Altitude:178.1,Speed:0.0463,Accuracy:3.0,Provider:gps,Time:04/15/2015 09:55:14 EDT	

Plot ID	BAT-S-M7-384	705

Location	Plot Notes
Latitude:45.846145,Longitude:-80.600597,Altitude:204.7,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/15/2015 10:12:01 EDT	

Tree ID	1	957

Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.846145,Longitude:-80.600597,Altitude:204.7,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/15/2015 10:12:02 EDT	
Height (m)	8		
Canopy Cover (%)	40		
# of Cavities	4	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details		1242
Cavity Height (m)	8	

Cavity Notes

Some woodpecker holes and potential cavity at top

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	960
Species	Acer rubrum	Location
DBH (cm)	61	Latitude:45.846136,Longitude:-80.600616,Altitude:202.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:14:55 EDT
Height (m)	10	
Canopy Cover (%)	40	
# of Cavities	4	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1245
Cavity Height (m)	10
Cavity Notes	Woodpecker holes

Cavity Details	1248
Cavity Height (m)	1
Cavity Notes	

Plot ID	BAT-S-M7-379	708
Location		Plot Notes
Latitude:45.845856,Longitude:-80.600957,Altitude:192.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/15/2015 10:52:43 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	963
Species	Acer rubrum	Location
DBH (cm)	33	Latitude:45.845855,Longitude:-80.600974,Altitude:193.0,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/15/2015 10:53:12 EDT
Height (m)	17	
Canopy Cover (%)	20	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1251
Cavity Height (m)	15	
Cavity Notes		
Plot ID	BAT-S-M7-382	711
Location		Plot Notes
Latitude:45.845869,Longitude:-80.601308,Altitude:190.1,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:13:56 EDT		
Tree ID	1	966
Species	Fraxinus nigra	Location
DBH (cm)	33	Latitude:45.845872,Longitude:-80.601309,Altitude:190.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:14:12 EDT
Height (m)	17	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1254

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	

Plot ID	BAT-S-M7-381	714

Location	Plot Notes
Latitude:45.846289,Longitude:-80.603606,Altitude:195.2,Speed:0.20577778,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:32:56 EDT	

Tree ID	1	969

Species	Acer rubrum	Location
DBH (cm)	27	Latitude:45.846321,Longitude:-80.603662,Altitude:197.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:35:47 EDT
Height (m)	16	
Canopy Cover (%)	10	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	1257

Cavity Height (m)	3
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		972
Species	Acer rubrum	Location	
DBH (cm)	34	Latitude:45.846316,Longitude:-80.603665,Altitude:196.9,Speed:0.18005556,Accuracy:1.5,Provider:gps,Time:04/15/2015 11:37:47 EDT	
Height (m)	17		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1260
Cavity Height (m)	13		
Cavity Notes	Loose bark and crack		
Tree ID	3		975
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.846189,Longitude:-80.603732,Altitude:197.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/15/2015 11:43:08 EDT	
Height (m)	17		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1263
Cavity Height (m)	10		
Cavity Notes	Loose bark and cracks		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		978
Species	Acer rubrum	Location	
DBH (cm)	31	Latitude:45.84605,Longitude:-80.603542,Altitude:195.6,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/15/2015 11:52:43 EDT	
Height (m)	17		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1266
Cavity Height (m)	16		
Cavity Notes			

Tree ID	5		984
Species	Populus tremuloides	Location	
DBH (cm)	35	Latitude:45.845969,Longitude:-80.602876,Altitude:200.6,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:01:14 EDT	
Height (m)	17		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1272
Cavity Height (m)	13		
Cavity Notes			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	6		987
Species	Populus tremuloides	Location	
DBH (cm)	44	Latitude:45.846,Longitude:-80.602868,Altitude:201.2,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:04/15/2015 12:03:07 EDT	
Height (m)	10		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1278
Cavity Height (m)	7		
Cavity Notes	Some wood pecker holes and loose bark		
Tree ID	7		990
Species	Acer rubrum	Location	
DBH (cm)	43	Latitude:45.84601,Longitude:-80.602851,Altitude:200.3,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/15/2015 12:06:40 EDT	
Height (m)	13		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1281
Cavity Height (m)	8		
Cavity Notes			
Plot ID	BAT-S-M7-403		738

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847163,Longitude:-80.599824,Altitude:201.4,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/15/2015 12:57:02 EDT	

Plot ID: BAT-S-M7-426 — 741

Location	Plot Notes
Latitude:45.8476,Longitude:-80.599892,Altitude:207.2,Speed:0.8231111,Accuracy:1.75,Provider:gps,Time:04/15/2015 01:02:11 EDT	

Plot ID: BAT-S-M7-445 — 744

Location	Plot Notes
Latitude:45.848429,Longitude:-80.600198,Altitude:206.0,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/15/2015 01:09:08 EDT	

Plot ID: BAT-S-M7-458 — 750

Location	Plot Notes
Latitude:45.848872,Longitude:-80.600736,Altitude:201.6,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/15/2015 01:11:45 EDT	

Map Number: S-M29 — Field Crew: NATALIA SIMONOVA AMY INGRISELLI — 195

Feature ID	BAT-S-M29-316	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM2	Wind Speed (beaufort)	1		
Start Date	4/15/2015 9:43:33 AM	Precipitation	0		
End Date	4/15/2015 3:00:01 PM	Cloud Cover	0.00		

Plot ID: BAT-S-M29 -316 — 717

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.83892,Longitude:-80.594989,Altitude:198.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/15/2015 09:46:34 EDT	No trees with suitable dbh and/or cavities

Plot ID: BAT-S-M29-315 — 720

Location	Plot Notes
Latitude:45.838799,Longitude:-80.595265,Altitude:195.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:55:20 EDT	Treed site but all either unsuitable dbh or cavities.

Plot ID: BAT-S-M29-301 — 723

Location	Plot Notes
Latitude:45.837479,Longitude:-80.593506,Altitude:194.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:25:50 EDT	Dense shrub layer, wet site

Tree ID: 1 — 981

Species	Acer rubrum	Location	
DBH (cm)	31	Latitude:45.837464,Longitude:-80.593518,Altitude:194.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:26:43 EDT	
Height (m)	16		
Canopy Cover (%)	85		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details — 1269

Cavity Height (m): 1

Cavity Notes: Low, small cavity in old knot

Cavity Details — 1275

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Peeling, lifting bark on trunk suitable for cover, from 1 to 10 m

Plot ID	BAT-S-M29-309	726

Location	Plot Notes
Latitude:45.837926,Longitude:-80.59382,Altitude:193.4,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:39:24 EDT	Alder/hazel thicket and rock barren. Thicket wet. No trees with suitable dbh or cavities.

Plot ID	BAT-S-M29-306	729

Location	Plot Notes
Latitude:45.837629,Longitude:-80.593909,Altitude:191.2,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/15/2015 11:41:20 EDT	Dense shrub layer, wet site.

Plot ID	BAT-S-M29-310	732

Location	Plot Notes
Latitude:45.838057,Longitude:-80.593825,Altitude:193.7,Speed:0.07716667,Accuracy:2.4,Provider:gps,Time:04/15/2015 12:02:39 EDT	Plot on rock barren and thicket. No trees with suitable dbh and/or cavities.

Plot ID	BAT-S-M29-311	735

Location	Plot Notes
Latitude:45.838216,Longitude:-80.593986,Altitude:205.3,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:10:32 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	993
Species	Pinus strobus	Location
DBH (cm)	41	Latitude:45.838218,Longitude:-80.593986,Altitude:205.1,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:11:20 EDT
Height (m)	12	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1284
Cavity Height (m)	6	
Cavity Notes		
Lifted dead bark on trunk suitable for cover, between 2 and 6m high on trunk		

Plot ID	BAT-S-M29-312	747
Location		Plot Notes
Latitude:45.838394,Longitude:-80.59425,Altitude:205.4,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/15/2015 12:20:58 EDT		Mostly rock barren. No trees with suitable dbh or cavities.

Plot ID	BAT-S-M29-314	2616
Location		Plot Notes
Latitude:45.838729,Longitude:-80.59369,Altitude:203.9,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/15/2015 12:40:33 EDT		Moved this plot a bit because it was overlapping with 311. Low wet mossy area between rock barrens.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2211
Species	Pinus strobus	Location
DBH (cm)	31	Latitude:45.838728,Longitude:-80.593645,Altitude:204.4,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:43:10 EDT
Height (m)	25	
Canopy Cover (%)	25	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		2880
Cavity Height (m)	10	
Cavity Notes	Loose bark suitable (but not ideal) for cover, between 2 and 10 m high	
Plot ID	BAT-S-M29-318	2619
Location	Latitude:45.838996,Longitude:-80.593621,Altitude:204.3,Speed:0.14404444,Accuracy:2.4,Provider:gps,Time:04/15/2015 12:59:54 EDT	Plot Notes: Bedrock.
Tree ID	1	2214
Species	Pinus strobus	Location
DBH (cm)	26	Latitude:45.839117,Longitude:-80.5937,Altitude:206.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:01:54 EDT
Height (m)	5	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		2883

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Loose, lifted bark on the trunk between 1 and 5 m.

Plot ID	BAT-S-M29-320	2622

Location	Plot Notes
Latitude:45.83907,Longitude:-80.592982,Altitude:198.0,Speed:0.07716667,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:12:03 EDT	Bedrock and wetland

Plot ID	BAT-S-M29-324	2625

Location	Plot Notes
Latitude:45.839357,Longitude:-80.593078,Altitude:198.5,Speed:0.10803334,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:21:06 EDT	

Tree ID	1	2217

Species	Populus tremuloides	Location	
DBH (cm)	26	Latitude:45.839488,Longitude:-80.593031,Altitude:204.0,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:22:53 EDT	
Height (m)	20		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		2886
Cavity Height (m)	2	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	2220
Species	Pinus banksiana	Location
DBH (cm)	29	Latitude:45.839424,Longitude:-80.592963,Altitude:200.8,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:27:00 EDT
Height (m)	22	
Canopy Cover (%)	30	
# of Cavities		Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		2889
Cavity Height (m)	1	
Cavity Notes	Suitable but small knot cavity	
Plot ID	BAT-S-M29-328	2628
Location	Latitude:45.839652,Longitude:-80.592784,Altitude:197.5,Speed:0.28294444,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:53:54 EDT	Plot Notes
Tree ID	1	2223
Species	Acer saccharum	Location
DBH (cm)	39	Latitude:45.839698,Longitude:-80.592826,Altitude:198.4,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/15/2015 02:00:50 EDT
Height (m)	22	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	Large healthy maple with hoghcavities. Surrounding area pretty open, smaller trees
Suitable location for audio monitor?	Y	
Cavity Details		2892

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 18

Cavity Notes

Open crack in side of tunk

Cavity Details 2895

Cavity Height (m) 15

Cavity Notes

Knot hole

Plot ID BAT-S-M29-333 2631

Location

Latitude:45.839806,Longitude:-80.592145,Altitude:184.9,Speed:0.19548889,Accuracy:2.4,Provider:gps,Time:04/15/2015 02:15:14 EDT

Plot Notes

Wet site, dense shrub layer

Tree ID 1 2226

Species Acer rubrum

DBH (cm) 29

Height (m) 20

Canopy Cover (%) 60

# of Cavities 2

Decay Class 1 Healthy, live tree

Suitable location for audio monitor? N

Location

Latitude:45.839793,Longitude:-80.592075,Altitude:185.6,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:17:09 EDT

Notes

Cavities plus some loose bark for cove

Cavity Details 2898

Cavity Height (m) 4

Cavity Notes

Cavity Details 2901

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Suitable but not ideal hole in trunk plus loose bark

Tree ID	2		2229
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.839754,Longitude:-80.592066,Altitude:192.5,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:23:22 EDT	
Height (m)	16		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 2904

Cavity Height (m)	12
Cavity Notes	Hole in bark and trunk

Cavity Details 2907

Cavity Height (m)	10
Cavity Notes	Loose peeling bark suitable for cover between 1.5 and. 10 m

Map Number	8	Field Crew	KRISTAN WASHBURN AND KASEY MCKENZIE		198
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	2		
Start Date	4/15/2015 1:20:21 PM	Precipitation	0		
End Date	4/15/2015 4:36:21 PM	Cloud Cover	0.00		
Plot ID	BAT-S-M8-477				753

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.849756,Longitude:-80.601331,Altitude:194.8,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:04/15/2015 01:21:47 EDT	Low GPS signal coordinates may not be accurate

Tree ID	1	996

Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.849757,Longitude:-80.601333,Altitude:194.9,Speed:0.015433333,Accuracy:2.0,Provider:gps,Time:04/15/2015 01:22:45 EDT	
Height (m)	16		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1287
Cavity Height (m)	4	
Cavity Notes		

Plot ID	BAT-S-M8-497	756

Location	Plot Notes
Latitude:45.85044,Longitude:-80.601311,Altitude:194.2,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:04/15/2015 01:45:48 EDT	Low GPS signal coordinates may not be accurate

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		999
Species	Acer rubrum	Location	
DBH (cm)	48	Latitude:45.85044,Longitude:-80.601311,Altitude:194.2,Speed:0.0051444443,Accuracy:2.0,Provider:gps,Time:04/15/2015 01:45:54 EDT	
Height (m)	20		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class			
Suitable location for audio monitor?	N		
Cavity Details			1290
Cavity Height (m)	3		
Cavity Notes			
Plot ID	BAT-S-M8-504		759
Location		Plot Notes	
Latitude:45.850767,Longitude:-80.601825,Altitude:186.3,Speed:0.4167,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:51:48 EDT		Low GPS signal	
Plot ID	BAT-S-M8-501		762
Location		Plot Notes	
Latitude:45.850712,Longitude:-80.602447,Altitude:183.0,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:58:10 EDT		Low GPS signal	
Plot ID	BAT-S-M8-498		765
Location		Plot Notes	
Latitude:45.850398,Longitude:-80.602662,Altitude:177.0,Speed:0.025722222,Accuracy:2.0,Provider:gps,Time:04/15/2015 02:02:16 EDT		Low GPS signal	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1002
Species	Populus tremuloides	Location	
DBH (cm)	37	Latitude:45.850395,Longitude:-80.60266,Altitude:178.2,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/15/2015 02:04:19 EDT	
Height (m)	20		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1293
Cavity Height (m)	18		
Cavity Notes			
Plot ID	BAT-S-M8-489		768
Location		Plot Notes	
Latitude:45.850124,Longitude:-80.602893,Altitude:181.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 02:12:44 EDT		Low GPS signal	
Tree ID	1		1005
Species	Populus tremuloides	Location	
DBH (cm)	40	Latitude:45.850124,Longitude:-80.602893,Altitude:181.9,Speed:0.19034444,Accuracy:2.1,Provider:gps,Time:04/15/2015 02:12:50 EDT	
Height (m)	22		
Canopy Cover (%)	5		
# of Cavities	5	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1296

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	14
Cavity Notes	Once wood pecker holes and cracks

Plot ID	BAT-S-M8-483	771

Location	Plot Notes
Latitude:45.85005,Longitude:-80.602321,Altitude:181.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:18:59 EDT	Low GPS signal

Tree ID	1	1008

Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.85005,Longitude:-80.602321,Altitude:181.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:19:06 EDT	
Height (m)	10		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1299

Cavity Height (m)	8
Cavity Notes	

Plot ID	BAT-S-M8-475	774

Location	Plot Notes
Latitude:45.849757,Longitude:-80.602024,Altitude:199.9,Speed:0.11832222,Accuracy:2.7,Provider:gps,Time:04/15/2015 02:32:28 EDT	Low GPS signal

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1011
Species	Populus tremuloides	Location	
DBH (cm)	47	Latitude:45.849795,Longitude:-80.602012,Altitude:199.4,Speed:0.4424222,Accuracy:2.7,Provider:gps,Time:04/15/2015 02:32:43 EDT	
Height (m)	12		
Canopy Cover (%)	0		
# of Cavities	10	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1302
Cavity Height (m)	10
Cavity Notes	Woodpecker holes to inner hollow tree

Map Number	S-M12	Field Crew	AMI ARSENAULT ADAM MCCLELLAND		201
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Sun	
Start Date	4/15/2015 8:38:41 AM	Precipitation	0		
End Date	4/15/2015 4:30:41 PM	Cloud Cover	0.00		

Plot ID	BAT-S-M12-528		777
Location		Plot Notes	
Latitude:45.852319,Longitude:-80.620059,Altitude:172.1,Speed:0.13375555,Accuracy:2.4,Provider:gps,Time:04/15/2015 09:15:29 EDT		Fairly wet area . Many trees smaller then 25cm dbh	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1014
Species	Pinus resinosa	Location
DBH (cm)		Latitude:45.852182,Longitude:-80.619968,Altitude:177.5,Speed:0.25722224,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:19:14 EDT
Height (m)	7	
Canopy Cover (%)	75	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	Very old dead tree with lots of loose bark. Some small holes as well.
Suitable location for audio monitor?	N	
Cavity Details		1305
Cavity Height (m)	2	
Cavity Notes		
Very loose bark		
Plot ID	BAT-S-M12-518	780
Location		Plot Notes
Latitude:45.85207,Longitude:-80.620084,Altitude:180.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:27:38 EDT		Directly along access route flagging. Some larger trees like pines and spruce surrounded by lots of trees smaller then 25cm dbh
Tree ID	1	1017
Species	Tamarack	Location
DBH (cm)	52	Latitude:45.852071,Longitude:-80.620121,Altitude:183.4,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:30:58 EDT
Height (m)	19	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	2 Declining tree	Large tree. One codominant stem more decayed and broken, this is where the cavity is
Suitable location for audio monitor?	N	
Cavity Details		1308

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Large hole near top of dead end

Plot ID	BAT-S-M12-520	786

Location	Plot Notes
Latitude:45.852108,Longitude:-80.620452,Altitude:182.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:38:04 EDT	More of an open space to the north, more treed to the south of centroid

Tree ID	1	1026

Species	Populus tremuloides	Location
DBH (cm)	41	Latitude:45.852156,Longitude:-80.620527,Altitude:181.3,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:40:07 EDT
Height (m)	16	
Canopy Cover (%)	50	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	Old dead tree lots of good sized cavities
Suitable location for audio monitor?	N	

Cavity Details		1317
Cavity Height (m)	3	
Cavity Notes	Old branch hole, deep	
Cavity Details		1320
Cavity Height (m)	7	
Cavity Notes	Large cavity maybe made from branch decay	
Cavity Details		1323

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	Small cavity

Plot ID	BAT-S-M12-512	798

Location	Plot Notes
Latitude:45.851712,Longitude:-80.620418,Altitude:190.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:53:45 EDT	lots of trees smaller then 25cm dbh. No trees larger then 25cm dbh have proper cavity holes.

Plot ID	BAT-S-M12-510	801

Location	Plot Notes
Latitude:45.851465,Longitude:-80.619951,Altitude:200.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:05:02 EDT	Lots of pine and fir trees. No cavity trees in plot

Plot ID	BAT-S-M12-506	807

Location	Plot Notes
Latitude:45.851167,Longitude:-80.620059,Altitude:193.4,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:04/15/2015 10:21:32 EDT	Directly along road access flagging route

Tree ID	1	1035

Species	Unknown snag	Location	
DBH (cm)	30	Latitude:45.851166,Longitude:-80.619995,Altitude:197.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:24:46 EDT	
Height (m)	11		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Dead snag with no discernable bark to be identified with. Lots of crevices and holes for bats	
Suitable location for audio monitor?	N		

Cavity Details		1335

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	Large Woodpecker hole. Deep.

Cavity Details 1338

Cavity Height (m)	9
Cavity Notes	Large crevice in bark

Plot ID	BAT-S-M12-503	810
Location	Latitude:45.850926,Longitude:-80.620159,Altitude:201.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:34:13 EDT	
Plot Notes	Lots of pine and fir trees. No cavity trees sighted in plot.	

Plot ID	BAT-S-M12-500	816
Location	Latitude:45.850759,Longitude:-80.620645,Altitude:199.2,Speed:0.2315,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:41:00 EDT	
Plot Notes	On edge of Elc polygon. Pines and firs on north side, birch and poplars on south.	

Tree ID	1	1044
Species	Tamarack	
DBH (cm)	27	
Height (m)	15	
Canopy Cover (%)	60	
# of Cavities	1	
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.85068,Longitude:-80.620505,Altitude:196.2,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:45:41 EDT	
Notes	Large dead tamarack with some remaining bark. Cavity holes near top of snag. Some branches remaining near top.	

Cavity Details 1350

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	Hole in tree sizable for bat

Plot ID	BAT-S-M12-499	819

Location	Plot Notes
Latitude:45.850658,Longitude:-80.620911,Altitude:203.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:53:07 EDT	Decent space between trees. No cavity trees in plot

Plot ID	BAT-S-M12-494	822

Location	Plot Notes
Latitude:45.850325,Longitude:-80.620875,Altitude:204.8,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:02:09 EDT	Many trees smaller then 25cm dbh

Tree ID	1	1050

Species	Betula papyrifera	Location
DBH (cm)	30	Latitude:45.850434,Longitude:-80.62087,Altitude:204.0,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:10:33 EDT
Height (m)	19	
Canopy Cover (%)	30	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	4 codminant stems. The largest of the 4 was surveyed. The other 3 trunks are alive still.
Suitable location for audio monitor?	N	

Cavity Details	1356

Cavity Height (m)	17
Cavity Notes	Woodpecker holes. Yellow bellied sap suckers observed in ares.

Cavity Details	1362

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Loose bark

Plot ID	BAT-S-M12-491	828

Location	Plot Notes
Latitude:45.850208,Longitude:-80.621379,Altitude:198.9,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:18:54 EDT	Lots of trees smaller then 25dbh.

Tree ID	1	1056

Species	Betula papyrifera	Location
DBH (cm)	26	Latitude:45.850129,Longitude:-80.621402,Altitude:202.9,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:23:59 EDT
Height (m)	12	
Canopy Cover (%)	40	
# of Cavities		Notes
Decay Class	5 Older dead tree	Old dead birch with Woodpecker holes
Suitable location for audio monitor?	N	

Cavity Details		1371
Cavity Height (m)	11	
Cavity Notes	Large Woodpecker hole near top of snag	

Cavity Details		1374
Cavity Height (m)	11	
Cavity Notes	Small Woodpecker holes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1059
Species	Betula papyrifera	Location
DBH (cm)	33	Latitude:45.850229,Longitude:-80.62149,Altitude:203.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:28:54 EDT
Height (m)	11	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Codominant stemmed. Took dbh of both trunks we surveyed (33.5 & 34). Birch dead with crevices and holes in bark.
Suitable location for audio monitor?	N	

Cavity Details		1377
Cavity Height (m)	11	
Cavity Notes	Large crevice at top of snag	

Cavity Details		1380
Cavity Height (m)	3	
Cavity Notes	Large crevice with loose bark	

Plot ID	BAT-S-M12-508	846
Location	Latitude:45.851424,Longitude:-80.619234,Altitude:207.8,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:15:35 EDT	Plot Notes: Lots of pine and fir trees. Many under 25cm dbh. No cavity trees found in this plot.

Plot ID	BAT-S-M12-514	849
Location	Latitude:45.85167,Longitude:-80.619672,Altitude:202.6,Speed:0.030866666,Accuracy:3.0,Provider:gps,Time:04/15/2015 12:30:27 EDT	Plot Notes: Mainly consisting of trees under 25cm dbh. One tree found with bat cavities.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1068
Species	Pinus strobus	Location	
DBH (cm)	39	Latitude:45.851662,Longitude:-80.619681,Altitude:204.7,Speed:0.0463,Accuracy:2.7,Provider:gps,Time:04/15/2015 12:36:29 EDT	
Height (m)	23		
Canopy Cover (%)	65		
# of Cavities	2	Notes	
Decay Class	3 Very recent dead tree	Recently dead pine. Tree still has many limbs. Little bark. Some small Woodpecker cavities	
Suitable location for audio monitor?	N		

Cavity Details		1392
Cavity Height (m)	10	
Cavity Notes	Small Woodpecker hole below tree branches	

Cavity Details		1395
Cavity Height (m)	10	
Cavity Notes	Small Woodpecker hole below tree branches and just above cavity #1	

Plot ID	BAT-S-M12-511		852
Location		Plot Notes	
Latitude:45.851583,Longitude:-80.618764,Altitude:212.8,Speed:0.05658889,Accuracy:2.7,Provider:gps,Time:04/15/2015 12:50:44 EDT		Fir pines and spruce	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1077
Species	Betula papyrifera	Location
DBH (cm)	34	Latitude:45.85147,Longitude:-80.618745,Altitude:207.4,Speed:0.07202222,Accuracy:2.7,Provider:gps,Time:04/15/2015 12:54:56 EDT
Height (m)	8	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Large dead white birch. Lots of woodpecker holes. Some deep enough for bats.
Suitable location for audio monitor?	N	

Cavity Details	1404
Cavity Height (m)	5
Cavity Notes	Several small holes clustered together

Cavity Details	1410
Cavity Height (m)	6
Cavity Notes	Two small holes near the top

Plot ID	BAT-S-M12-516	855
Location	Latitude:45.851871,Longitude:-80.619115,Altitude:195.8,Speed:0.10288889,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:11:26 EDT	Plot Notes: Maple tamarack pine

Plot ID	BAT-S-M12-515	858
Location	Latitude:45.851797,Longitude:-80.618539,Altitude:214.1,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:31:29 EDT	Plot Notes: Pine maple fir

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M12-522	864

Location	Plot Notes
Latitude:45.852123,Longitude:-80.618617,Altitude:204.0,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:42:51 EDT	Good spacing between trees. More of an open canopy. Birch pine fir red maple. No cavity trees in plot.

Plot ID	BAT-S-M12-526	870

Location	Plot Notes
Latitude:45.852304,Longitude:-80.619054,Altitude:197.1,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:52:38 EDT	Pine tamarack red maple birch fir

Tree ID	1	1086

Species	Betula papyrifera	Location
DBH (cm)	27	Latitude:45.852217,Longitude:-80.619048,Altitude:195.1,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:55:14 EDT
Height (m)	14	
Canopy Cover (%)	65	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	dead birch with three large Woodpecker cavities near top of snag
Suitable location for audio monitor?	N	

Cavity Details		1422
Cavity Height (m)	13	

Cavity Notes

Three large Woodpecker holes that go deep into trunk of tree

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1092
Species	Betula papyrifera	Location
DBH (cm)	28	Latitude:45.852412,Longitude:-80.619016,Altitude:195.2,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/15/2015 02:01:06 EDT
Height (m)	11	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Two codminant trunks. Only one used for surveyat 28cm
Suitable location for audio monitor?	N	

Cavity Details	1428
Cavity Height (m)	10
Cavity Notes	Large hole near top of snag

Cavity Details	1431
Cavity Height (m)	9
Cavity Notes	Large hole - probably Woodpecker

Plot ID	BAT-S-M12-524	873
Location	Latitude:45.852193,Longitude:-80.619474,Altitude:176.0,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/15/2015 02:10:01 EDT	Plot Notes: Wet area (for now). Lots of trees smaller then 25dbh.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1095
Species	Betula papyrifera	Location	
DBH (cm)	26	Latitude:45.852218,Longitude:-80.619581,Altitude:186.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 02:12:42 EDT	
Height (m)	7		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Old dead snag with many woodpecker holes	
Suitable location for audio monitor?	N		
Cavity Details			1437
Cavity Height (m)	6		
Cavity Notes	Small Woodpecker hole deep enough for bats. Multiple holes in tree that could also be used.		
Tree ID	2		1101
Species	Pinus resinosa	Location	
DBH (cm)	29	Latitude:45.852227,Longitude:-80.619634,Altitude:188.0,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/15/2015 02:18:44 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Older dead pine with a few holes and small crevices in trunk	
Suitable location for audio monitor?	N		
Cavity Details			1443
Cavity Height (m)	14		
Cavity Notes	Hole near top of snag		
Cavity Details			1446

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	13
Cavity Notes	Hole near top of snag

Plot ID	BAT-S-M11-530	879

Location	Plot Notes
Latitude:45.852531,Longitude:-80.618625,Altitude:192.8,Speed:0.3241,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:42:45 EDT	Half of plot on rock barren. No cavity trees in plot.

Plot ID	BAT-S-M11-535	882

Location	Plot Notes
Latitude:45.85265,Longitude:-80.619229,Altitude:179.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:48:55 EDT	Lots of white pine and some scattered birches. No bat cavity trees found in plot.

Tree ID	1	1107

Species	Betula papyrifera	Location	
DBH (cm)	0	Latitude:45.852696,Longitude:-80.619221,Altitude:182.2,Speed:0.28294444,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:51:34 EDT	
Height (m)	14		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Dead birch with loose bark at top of snag. Lots of Woodpecker holes but they are too shallow.	
Suitable location for audio monitor?	N		

Cavity Details		1452
Cavity Height (m)	12	
Cavity Notes	Lots of loose bark near top of snag	

Plot ID	BAT-S-M11-532	891

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.852531,Longitude:-80.61979,Altitude:190.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:01:39 EDT	Dominated by red and white pines

Plot ID	BAT-S-M11-536	894

Location	Plot Notes
Latitude:45.852671,Longitude:-80.620112,Altitude:179.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:10:17 EDT	Centroid is just south of swamp thicket. Pine and maple south of centroid. No bat cavity trees in plot.

Plot ID	BAT-S-M11-534	900

Location	Plot Notes
Latitude:45.852574,Longitude:-80.620546,Altitude:188.5,Speed:0.34467778,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:18:33 EDT	Wet Swamp area north of centroid. Birches and maples dominating plot.

Tree ID	1	1113

Species	Populus spp	Location	
DBH (cm)	27	Latitude:45.852525,Longitude:-80.620557,Altitude:188.9,Speed:0.1389,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:21:42 EDT	
Height (m)	12		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Not enough bark to ID fully	
Suitable location for audio monitor?	N		

Cavity Details		1458

Cavity Height (m)	4

Cavity Notes

Plot ID	BAT-S-M11-537	906

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.852875,Longitude:-80.620732,Altitude:179.0,Speed:0.13375555,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:31:23 EDT	On edge of Swamp thicket area. Along access road flagging route. No cavity trees in plot.

Map Number	S-M10	Field Crew	JOHANNA PEREZ, TOM SHORNEY	204

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	4.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	1	
Start Date	4/15/2015 7:52:43 AM	Precipitation	0	
End Date	4/15/2015 3:53:52 PM	Cloud Cover	0.00	

Plot ID	BAT-S-M10-581	783

Location	Plot Notes
Latitude:45.856749,Longitude:-80.612771,Altitude:194.3,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/15/2015 09:14:17 EDT	Pileated woodpecker

Tree ID	01	1020

Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.856767,Longitude:-80.612797,Altitude:196.0,Speed:0.18005556,Accuracy:1.5,Provider:gps,Time:04/15/2015 09:16:20 EDT	
Height (m)	13		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree	Some peeling bark	
Suitable location for audio monitor?	N		

Cavity Details	1311

Cavity Height (m)	0

Cavity Notes

Another opening to central cavity 1.5m high

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02	1023
Species	Betula papyrifera	Location
DBH (cm)	26	Latitude:45.856769,Longitude:-80.612815,Altitude:198.9,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:23:31 EDT
Height (m)	15	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		1314
Cavity Height (m)	14	
Cavity Notes		
Small, may not be suitable		

Plot ID	BAT-S-M10-573	789
Location	Plot Notes	
Latitude:45.856394,Longitude:-80.612513,Altitude:201.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/15/2015 09:27:15 EDT		

Plot ID	BAT-S-M10-572	792
Location	Plot Notes	
Latitude:45.856406,Longitude:-80.61205,Altitude:198.3,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:33:56 EDT	Another tree with cavity present in plot but too small; Ruffed grouse heard	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	1029
Species	Acer rubrum	Location
DBH (cm)	34	Latitude:45.856353,Longitude:-80.612091,Altitude:203.0,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/15/2015 09:40:15 EDT
Height (m)	14	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		1326
Cavity Height (m)	1	
Cavity Notes		

Plot ID	BAT-S-M10-564	795
Location	Latitude:45.855781,Longitude:-80.612065,Altitude:202.4,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:51:44 EDT	Plot Notes

Plot ID	BAT-S-M10-567	804
Location	Latitude:45.855989,Longitude:-80.611671,Altitude:205.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:06:12 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	1032
Species	Populus tremuloides	Location
DBH (cm)	53	Latitude:45.855985,Longitude:-80.611707,Altitude:205.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:11:01 EDT
Height (m)	17	
Canopy Cover (%)	80	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	1329
Cavity Height (m)	1
Cavity Notes	

Cavity Details	1332
Cavity Height (m)	1
Cavity Notes	

Tree ID	02	1038
Species	Acer rubrum	Location
DBH (cm)	25	Latitude:45.855912,Longitude:-80.611732,Altitude:204.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:13:08 EDT
Height (m)	6	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1341

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Peeling bark throughout

Plot ID	BAT-S-M10-557	813

Location	Plot Notes
Latitude:45.855455,Longitude:-80.611509,Altitude:202.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:23:20 EDT	Near rock outcrop; may be significant wildlife habitat

Tree ID	01	1041

Species	Pinus strobus	Location
DBH (cm)	28	Latitude:45.855448,Longitude:-80.611517,Altitude:203.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:25:20 EDT
Height (m)	7	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1344

Cavity Height (m)	4
Cavity Notes	Peeling bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02	1047
Species	Pinus resinosa	
DBH (cm)	44	
Height (m)	16	
Canopy Cover (%)	30	
# of Cavities	2	
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.855394,Longitude:-80.611494,Altitude:202.1,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:29:07 EDT	
Notes	Tree severely leaning	

Cavity Details		1347
Cavity Height (m)	8	
Cavity Notes	Small central cavity	

Cavity Details		1353
Cavity Height (m)	9	
Cavity Notes	Not sure if there is a central cavity	

Plot ID	BAT-S-M10-561	825
Location	Latitude:45.855665,Longitude:-80.611427,Altitude:204.7,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:01:32 EDT	
Plot Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	1053
Species	Pinus strobus	
DBH (cm)	60	
Height (m)	12	
Canopy Cover (%)	40	
# of Cavities	3	
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	Y	

Location

Latitude:45.855665,Longitude:-80.611427,Altitude:204.7,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:01:33 EDT

Notes

Tree in open area/near rock barren

Cavity Details 1359

Cavity Height (m) 1

Cavity Notes

Peeling bark

Cavity Details 1365

Cavity Height (m) 6

Cavity Notes

Cavity Details 1368

Cavity Height (m) 2

Cavity Notes

Plot ID BAT-S-M10-559 831

Location

Latitude:45.855556,Longitude:-80.61111,Altitude:204.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:17:00 EDT

Plot Notes

Plot in rock barren

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M10-562	834

Location	Plot Notes
Latitude:45.855671,Longitude:-80.610281,Altitude:197.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:22:44 EDT	

Plot ID	BAT-S-M10-556	837

Location	Plot Notes
Latitude:45.855364,Longitude:-80.610378,Altitude:198.6,Speed:0.030866666,Accuracy:2.7,Provider:gps,Time:04/15/2015 11:30:15 EDT	

Plot ID	BAT-S-M10-563	840

Location	Plot Notes
Latitude:45.855751,Longitude:-80.610814,Altitude:205.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:37:03 EDT	

Plot ID	BAT-S-M10-566	843

Location	Plot Notes
Latitude:45.856023,Longitude:-80.610186,Altitude:206.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:24:10 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01		1062
Species	Betula papyrifera	Location	
DBH (cm)	33	Latitude:45.855921,Longitude:-80.610141,Altitude:206.5,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:30:00 EDT	
Height (m)	13		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1383
Cavity Height (m)	2		
Cavity Notes	No central cavity		
Cavity Details			1386
Cavity Height (m)	4		
Cavity Notes	No central cavity but nooks that bat could use		
Tree ID	02		1065
Species	Acer rubrum	Location	
DBH (cm)	35	Latitude:45.855943,Longitude:-80.610179,Altitude:208.0,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:30:32 EDT	
Height (m)	5		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1389

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	0
Cavity Notes	

Tree ID	03	1071

Species	Populus tremuloides	Location	
DBH (cm)	36	Latitude:45.855986,Longitude:-80.610134,Altitude:207.5,Speed:0.20063333,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:36:21 EDT	
Height (m)	9		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1398

Cavity Height (m)	1
Cavity Notes	Small but central cavity

Tree ID	04	1074

Species	Acer rubrum	Location	
DBH (cm)	27	Latitude:45.855906,Longitude:-80.609974,Altitude:207.5,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:37:42 EDT	
Height (m)	5		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1401

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m): 0

Cavity Notes: Into central cavity

Cavity Details 1407

Cavity Height (m): 2

Cavity Notes: Peeling bark throughout

Cavity Details 1413

Cavity Height (m): 4

Cavity Notes: May be central cavity near top

Plot ID: BAT-S-M10-568 861

Location: Latitude:45.856089,Longitude:-80.610616,Altitude:212.7,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:44:39 EDT

Plot Notes:

Tree ID: 01 1080

Species: Pinus strobus

DBH (cm): 30

Height (m): 10

Canopy Cover (%): 95

# of Cavities: 1

Decay Class: 5 Older dead tree

Suitable location for audio monitor? N

Location: Latitude:45.856089,Longitude:-80.610597,Altitude:212.2,Speed:0.2520778,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:46:12 EDT

Notes:

Cavity Details 1416

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Many woodpecker holes but most do not go into central cavity

Plot ID	BAT-S-M10-578	867

Location	Plot Notes
Latitude:45.856652,Longitude:-80.610041,Altitude:206.0,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:58:00 EDT	

Tree ID	01	1083

Species	Betula papyrifera	Location
DBH (cm)	31	Latitude:45.856714,Longitude:-80.610121,Altitude:204.7,Speed:0.19034444,Accuracy:2.4,Provider:gps,Time:04/15/2015 12:58:53 EDT
Height (m)	13	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	1419

Cavity Height (m)	10
Cavity Notes	May go into central cavity

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02		1089
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.856696,Longitude:-80.610104,Altitude:203.0,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:02:45 EDT	
Height (m)	12		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1425
Cavity Height (m)	1		
Cavity Notes	Central cavity		
Cavity Details			1434
Cavity Height (m)	10		
Cavity Notes	Peeling bark near top		
Tree ID	03		1098
Species	Betula papyrifera	Location	
DBH (cm)	32	Latitude:45.856688,Longitude:-80.610063,Altitude:206.9,Speed:0.4064111,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:09:20 EDT	
Height (m)	5		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1440

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m): 2

Cavity Notes: Bark is particularly peeling but not ideal for bats

Plot ID: BAT-S-M10-575 — 876

Location: Latitude:45.856543,Longitude:-80.61044,Altitude:206.1,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:15:30 EDT

Plot Notes:

Tree ID: 01 — 1104

Species: Pinus banksiana

DBH (cm): 26

Height (m): 3

Canopy Cover (%): 80

# of Cavities: 1

Decay Class: 6 Very old dead tree

Suitable location for audio monitor?: N

Location: Latitude:45.856446,Longitude:-80.610451,Altitude:209.4,Speed:0.11832222,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:18:49 EDT

Notes:

Cavity Details — 1449

Cavity Height (m): 2

Cavity Notes: Peeling bark

Plot ID: BAT-S-M10-580 — 885

Location: Latitude:45.856675,Longitude:-80.611241,Altitude:201.7,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:31:28 EDT

Plot Notes:

Plot ID: BAT-S-M10-569 — 888

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.856194,Longitude:-80.611292,Altitude:206.6,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:43:33 EDT	On a slope, saw a ruffed Grouse

Plot ID: BAT-S-M10-571 — 897

Location	Plot Notes
Latitude:45.856408,Longitude:-80.610933,Altitude:205.5,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/15/2015 01:58:20 EDT	

Tree ID: 01 — 1110

Species	Pinus banksiana	Location	
DBH (cm)	37	Latitude:45.856438,Longitude:-80.610743,Altitude:206.3,Speed:0.13375555,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:05:18 EDT	
Height (m)	10		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree	Woodpecker holes but no central cavity	
Suitable location for audio monitor?	N		

Cavity Details — 1455

Cavity Height (m): 2

Cavity Notes: Peeling bark throughout

Plot ID: BAT-S-M10-574 — 903

Location	Plot Notes
Latitude:45.856447,Longitude:-80.61166,Altitude:199.3,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:09:27 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01		1116
Species	Acer rubrum	Location	
DBH (cm)	27	Latitude:45.856351,Longitude:-80.611578,Altitude:199.5,Speed:0.28294444,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:14:40 EDT	
Height (m)	15		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1461
Cavity Height (m)	7		
Cavity Notes	Not hollow but bat could nestle along lower lip of jutting out bark around wound		
Tree ID	02		1119
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.856358,Longitude:-80.611634,Altitude:200.0,Speed:0.12346666,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:17:01 EDT	
Height (m)	13		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1464
Cavity Height (m)	2		
Cavity Notes	Small hole		
Plot ID	BAT-S-M11-584		909

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.857445,Longitude:-80.619801,Altitude:185.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:01:13 EDT	

Tree ID	01	1122

Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.857442,Longitude:-80.619797,Altitude:185.7,Speed:0.066877775,Accuracy:2.4,Provider:gps,Time:04/15/2015 03:01:54 EDT	
Height (m)	12		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1467

Cavity Height (m)	2
Cavity Notes	

Tree ID	02	1125

Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.856896,Longitude:-80.619441,Altitude:181.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:20:38 EDT	
Height (m)	11		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	1470

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	

Tree ID	03		1128
Species	Betula papyifera	Location	
DBH (cm)	28	Latitude:45.856737,Longitude:-80.619463,Altitude:189.5,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:25:48 EDT	
Height (m)	12		
Canopy Cover (%)	85		
# of Cavities	2	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1473
Cavity Height (m)	4
Cavity Notes	Purely bark

Cavity Details	1476
Cavity Height (m)	11
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	04		1131
Species	Acer rubrum	Location	
DBH (cm)	39	Latitude:45.856675,Longitude:-80.619495,Altitude:190.4,Speed:0.34467778,Accuracy:2.1,Provider:gps,Time:04/15/2015 03:33:03 EDT	
Height (m)	14		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1479
Cavity Height (m)	1		
Cavity Notes			

Tree ID	05		1134
Species	Pinus strobus	Location	
DBH (cm)	30	Latitude:45.856722,Longitude:-80.619368,Altitude:190.9,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:37:25 EDT	
Height (m)	17		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1482
Cavity Height (m)	9		
Cavity Notes	Peeling bark		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	06		1137
Species	Betula papyrifera	Location	
DBH (cm)	35	Latitude:45.8568,Longitude:-80.619541,Altitude:190.3,Speed:0.21092223,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:46:28 EDT	
Height (m)	16		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1485
Cavity Height (m)	5		
Cavity Notes	Vertical crack		
Cavity Details			1488
Cavity Height (m)	10		
Cavity Notes			
Tree ID	07		1140
Species	Betula papyrifera	Location	
DBH (cm)	30	Latitude:45.856847,Longitude:-80.619605,Altitude:190.8,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:51:10 EDT	
Height (m)	14		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1491

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Peeling bark

Map Number	S-M11	Field Crew	JASON N OLGA H	207

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0	Sunny, calm	
Start Date	4/15/2015 8:37:11 AM	Precipitation	0		
End Date	4/15/2015 3:30:28 PM	Cloud Cover	0.00		

Plot ID	BAT-S-M11-560	912

Location	Plot Notes
Latitude:45.855747,Longitude:-80.621877,Altitude:195.4,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/15/2015 08:38:57 EDT	Forest polygon is dominated by young red maples, speckled alder and white pine (less than 2 cm dbh) surrounding the open water.

Tree ID	1	1143

Species	Pinus strobus	Location	
DBH (cm)	36	Latitude:45.855747,Longitude:-80.621877,Altitude:195.4,Speed:0.14404444,Accuracy:2.4,Provider:gps,Time:04/15/2015 08:38:59 EDT	
Height (m)	3		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	6 Very old dead tree	Old snag	
Suitable location for audio monitor?	N		

Cavity Details		1494
Cavity Height (m)	1	
Cavity Notes	Woodpecker hole	

Cavity Details		1497

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Deep cavity inside

Tree ID	2	1146

Species	Pinus strobus	Location	
DBH (cm)	29	Latitude:45.855439,Longitude:-80.621407,Altitude:191.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:01:19 EDT	
Height (m)	15		
Canopy Cover (%)	30		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1500

Cavity Height (m)	2
Cavity Notes	Woodpecker holes, about 5 by 5 cm. One hole at the top that exists facing down.

Cavity Details	1503

Cavity Height (m)	4
Cavity Notes	Woodpecker hole

Plot ID	BAT-S-M11-555	915

Location	Plot Notes
Latitude:45.854896,Longitude:-80.621597,Altitude:184.5,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/15/2015 09:26:27 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1149
Species	Pinus strobus	Location
DBH (cm)	40	Latitude:45.854925,Longitude:-80.621615,Altitude:187.5,Speed:0.16976666,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:27:17 EDT
Height (m)	15	
Canopy Cover (%)	60	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1506
Cavity Height (m)	10	
Cavity Notes	Woodpecker hole	

Cavity Details		1509
Cavity Height (m)	9	
Cavity Notes	Big cavity in tree, 30 cm long, 15 cm wide.	

Plot ID	BAT-S-M11-554	918
Location	Latitude:45.854628,Longitude:-80.621744,Altitude:178.2,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:04/15/2015 09:40:08 EDT	Plot Notes: Relatively young forest stand dominated by larger Red Pine, understory is dominated by Red Small and white pine saplings

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1152
Species	Pinus strobus	Location
DBH (cm)	35	Latitude:45.854636,Longitude:-80.621434,Altitude:184.5,Speed:0.1852,Accuracy:2.4,Provider:gps,Time:04/15/2015 09:48:52 EDT
Height (m)	10	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1512
Cavity Height (m)	9	
Cavity Notes	Small woodpecker hole	
Plot ID	BAT-S-M11-553	921
Location	Latitude:45.854521,Longitude:-80.621286,Altitude:195.4,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:15:50 EDT	Plot Notes: Red pine dominated forest with fewer red oaks and paper birches
Tree ID	1	1155
Species	Betula papyrifera	Location
DBH (cm)	26	Latitude:45.854494,Longitude:-80.621252,Altitude:194.6,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:20:18 EDT
Height (m)	9	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	Small cavities all around snag
Suitable location for audio monitor?	N	
Cavity Details		1515

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 2

Cavity Notes

Multiple cavities in snag

Cavity Details 1518

Cavity Height (m) 2

Cavity Notes

Starting at 2 m high, multiple cavities on other side of snag

Tree ID 2 1158

Species Betula papyrifera

DBH (cm) 29

Height (m) 17

Canopy Cover (%) 60

# of Cavities 1

Decay Class 1 Healthy, live tree

Suitable location for audio monitor? N

Location Latitude:45.854536,Longitude:-80.621231,Altitude:196.8,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 10:24:18 EDT

Notes

Cavity Details 1521

Cavity Height (m) 6

Cavity Notes

Hole in notch

Plot ID BAT-S-M11-551 924

Location Latitude:45.854152,Longitude:-80.621401,Altitude:192.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:40:43 EDT

Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1161
Species	Pinus strobus	Location
DBH (cm)	33	Latitude:45.854152,Longitude:-80.621401,Altitude:192.7,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/15/2015 10:40:44 EDT
Height (m)	20	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1524
Cavity Height (m)	4	
Cavity Notes		

Plot ID	BAT-S-M11-552	927
Location	Plot Notes	
Latitude:45.854195,Longitude:-80.622054,Altitude:195.7,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/15/2015 11:01:34 EDT	No suitable cavities. In a rock barren. There are cavity trees under 25 cm	

Plot ID	BAT-S-M11-549	930
Location	Plot Notes	
Latitude:45.854056,Longitude:-80.62233,Altitude:197.9,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:18:02 EDT	No suitable trees	

Plot ID	BAT-S-M11-550	933
Location	Plot Notes	
Latitude:45.854075,Longitude:-80.622318,Altitude:196.9,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/15/2015 11:19:45 EDT	No suitable trees	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M11-546	936
Location	Plot Notes	
Latitude:45.85385,Longitude:-80.622812,Altitude:200.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:16:10 EDT	Plot location moved into forest edge. Original plot location was in a thicket swamp, high water level resulting from melt snow yesterday (above boot height). No suitable bat cavity trees found in Knot. All trees are young and have dbh less than 25 cm.	

Plot ID	BAT-S-M11-548	939
Location	Plot Notes	
Latitude:45.853849,Longitude:-80.623433,Altitude:192.9,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:39:13 EDT	Plot location in a deep verbal pool, location was moved to the side on dry upland. Majority of trees are less than 25 cm dbh. No suitable tree cavities found.	

Plot ID	BAT-S-M11-545	942
Location	Plot Notes	
Latitude:45.853612,Longitude:-80.623606,Altitude:196.4,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/15/2015 12:48:06 EDT	Lots of trees less than 25 cm dbh. No suitable cavity trees found.	

Plot ID	BAT-S-M11-542	945
Location	Plot Notes	
Latitude:45.853549,Longitude:-80.624092,Altitude:193.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:01:54 EDT	No suitable cavity trees found. All trees within plot are young with dbh less than 25 cm.	

Plot ID	BAT-S-M11-541	948
Location	Plot Notes	
Latitude:45.853527,Longitude:-80.624557,Altitude:186.7,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:19:41 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1164
Species	Pinus strobus	Location
DBH (cm)	58	Latitude:45.853513,Longitude:-80.624505,Altitude:186.7,Speed:0.0051444443,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:20:47 EDT
Height (m)	8	
Canopy Cover (%)	60	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	Hollow snag
Suitable location for audio monitor?	Y	

Cavity Details		1527
Cavity Height (m)	2	
Cavity Notes	Hollow open trunk but continues up inside tree where its less exposed.	

Cavity Details		1530
Cavity Height (m)	7	
Cavity Notes	Woodpecker hole	

Cavity Details		1533
Cavity Height (m)	8	
Cavity Notes	Pileated woodpecker hole	

Plot ID	BAT-S-M11-544	951
Location	Latitude:45.853537,Longitude:-80.625056,Altitude:193.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:35:48 EDT	Plot Notes: Original plot was on a rock barren where no trees were located within radius. Moved plot into forest edge. Most trees in plot are young.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1167
Species	Pinus strobus	Location
DBH (cm)	30	Latitude:45.85354,Longitude:-80.625023,Altitude:192.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:37:55 EDT
Height (m)	2	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1536
Cavity Height (m)	1	
Cavity Notes	Hollow snag	
Tree ID	2	1170
Species	Betula papyrifera	Location
DBH (cm)	29	Latitude:45.853535,Longitude:-80.624961,Altitude:192.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/15/2015 01:41:58 EDT
Height (m)	8	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1539
Cavity Height (m)	5	
Cavity Notes	Pileated woodpecker hole	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	1173
Species	Pinus banksiana	Location
DBH (cm)	30	Latitude:45.853503,Longitude:-80.624919,Altitude:193.0,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/15/2015 01:45:07 EDT
Height (m)	18	
Canopy Cover (%)	60	
# of Cavities	7	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		1542
Cavity Height (m)	1	
Cavity Notes	Woodpecker holes	

Cavity Details		1545
Cavity Height (m)	2	
Cavity Notes	Woodpecker holes	

Cavity Details		1548
Cavity Height (m)	2	
Cavity Notes	Pileated woodpecker holes	

Plot ID	BAT-S-M11-539	954
Location	Latitude:45.853321,Longitude:-80.624954,Altitude:190.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/15/2015 01:58:03 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1176
Species	Pinus strobus	Location	
DBH (cm)	27	Latitude:45.853343,Longitude:-80.624903,Altitude:190.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/15/2015 01:59:10 EDT	
Height (m)	4		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1551
Cavity Height (m)	3		
Cavity Notes	Woodpecker holes		
Tree ID	2		1179
Species	Betula papyrifera	Location	
DBH (cm)	37	Latitude:45.853345,Longitude:-80.624747,Altitude:190.0,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:03:23 EDT	
Height (m)	15		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1554
Cavity Height (m)	2		
Cavity Notes	Woodpecker holes		
Cavity Details			1557

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Woodpecker holes

Cavity Details 1560

Cavity Height (m)	5
Cavity Notes	Woodpecker hole

Tree ID	3		1182
Species	Pinus strobus	Location	
DBH (cm)	50	Latitude:45.853345,Longitude:-80.624695,Altitude:189.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/15/2015 02:09:18 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details 1563

Cavity Height (m)	4
Cavity Notes	Open crevice in trunk, and woodpecker holes

Plot ID	BAT-S-M11-543		957
Location		Plot Notes	
Latitude:45.853462,Longitude:-80.621555,Altitude:176.1,Speed:0.42184445,Accuracy:2.4,Provider:gps,Time:04/15/2015 03:02:00 EDT		No suitable trees	
Plot ID	BAT-S-M11-540		960

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.853321,Longitude:-80.621,Altitude:183.8,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/15/2015 03:13:42 EDT	No suitable trees

Plot ID: BAT-S-M11-538 — 963

Location	Plot Notes
Latitude:45.853096,Longitude:-80.620568,Altitude:196.9,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/15/2015 03:32:07 EDT	No suitable trees

Map Number: S-M24 — Field Crew: JASON N. OLGA — 213

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/16/2015 10:51:18 AM	Precipitation	0		
End Date	4/16/2015 3:43:16 PM	Cloud Cover	60.00		

Plot ID: BAT-S-M24-275 — 969

Location	Plot Notes
Latitude:45.833609,Longitude:-80.605308,Altitude:197.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/16/2015 10:53:29 EDT	No suitable trees. Cavity less than 25 cm

Plot ID: BAT-S-M24-269 — 972

Location	Plot Notes
Latitude:45.833195,Longitude:-80.604961,Altitude:189.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:14:04 EDT	No suitable trees

Plot ID: BAT-S-M24-267 — 975

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.833188,Longitude:-80.604566,Altitude:186.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:33:57 EDT	Many Red Maple with dbh less than 25 cm. Understory is dominated by red maple saplings. A few large Paper Birches.

Tree ID	1	1188

Species	Betula papyrifera	Location
DBH (cm)	48	Latitude:45.833193,Longitude:-80.604583,Altitude:186.5,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:35:05 EDT
Height (m)	20	
Canopy Cover (%)	50	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	1569

Cavity Height (m)	8

Cavity Notes

Woodpecker hole at branch fork

Cavity Details	1572

Cavity Height (m)	9

Cavity Notes

Many woodpecker holes on underside of branch facing towards

Plot ID	BAT-S-M24-264	978

Location	Plot Notes
Latitude:45.832954,Longitude:-80.604206,Altitude:185.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:48:12 EDT	Lots of poplar species present in plot. Plot is temporarily flooded.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1191
Species	Populas species	Location
DBH (cm)	31	Latitude:45.832953,Longitude:-80.604211,Altitude:185.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:48:50 EDT
Height (m)	4	
Canopy Cover (%)	40	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1575
Cavity Height (m)	1
Cavity Notes	Old Woodpecker holes

Cavity Details	1578
Cavity Height (m)	4
Cavity Notes	Hollow at the top of snag.

Plot ID	BAT-S-M24-261	981
Location	Latitude:45.832682,Longitude:-80.604192,Altitude:186.9,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:59:05 EDT	Plot Notes: Open canopy, plot is bordering a marsh area.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1194
Species	Unknown	Location
DBH (cm)	34	Latitude:45.832689,Longitude:-80.604231,Altitude:186.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:59:27 EDT
Height (m)	7	
Canopy Cover (%)	60	
# of Cavities	18	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1581
Cavity Height (m)	2
Cavity Notes	Many deep woodpecker holes

Cavity Details	1584
Cavity Height (m)	1
Cavity Notes	Many large and deep Pileated Woodpecker holes up along snag

Plot ID	BAT-S-M24-257	984
Location	Latitude:45.832425,Longitude:-80.60379,Altitude:188.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:20:50 EDT	Plot Notes: Plot is located on a transition zone between forest and rock barren. It is relatively open.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1197
Species	Populus	Location
DBH (cm)	41	Latitude:45.832435,Longitude:-80.603822,Altitude:188.0,Speed:0.11832222,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:21:44 EDT
Height (m)	6	
Canopy Cover (%)	50	
# of Cavities	5	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1587
Cavity Height (m)	4
Cavity Notes	Multiple woodpecker holes in snag, avg. 5 cm wide by 6 cm long.

Cavity Details	1590
Cavity Height (m)	4
Cavity Notes	Woodpecker hole on other side of snag, 5 cm wide by 7 cm long.

Plot ID	BAT-S-M24-244	987
Location	530858.36 / 5075442.00 per Rayna, not collected in the field.	Plot Notes: Plot is located on transition between forest and rock barren. Majority if trees present are small with dbh less than 25 cm, including a few snags.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1200
Species	Pinus banksiana	Location
DBH (cm)	29	Latitude:45.83192,Longitude:-80.602548,Altitude:179.1,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:43:30 EDT
Height (m)	12	
Canopy Cover (%)	40	
# of Cavities	4	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1593
Cavity Height (m)	4	
Cavity Notes	Narrow opening in the bark.	

Cavity Details		1596
Cavity Height (m)	8	
Cavity Notes	Large hole in notch of tree; appears to be deep.	

Plot ID	BAT-S-M24-237	990
Location	530872.12 / 5075397.55 Per Rayna, not collected in the field	Plot Notes Plot is partially on Rock barren, majority of trees are small with dbh less than 25 cm.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1203
Species	Acer saccharum	Location	
DBH (cm)	43		
Height (m)	16		
Canopy Cover (%)	35		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1599
Cavity Height (m)	3		
Cavity Notes	Long narrow opening in trunk; appears to be deep. 40 cm long and 10 cm wide.		
Map Number	S-M8	Field Crew	KRISTAN WASHBURN AND KASEY MCKENZIE 216
Feature ID	NA	Study Area	WEC
Project Number	60341251	Air Temp. (degC)	3.00
Tablet	AECOM1	Wind Speed (beaufort)	1
Start Date	4/16/2015 8:06:14 AM	Precipitation	0
End Date	4/16/2015 3:48:34 PM	Cloud Cover	20.00
Weather Notes			
Plot ID	BAT-S-M8-493		993
Location	Latitude:45.850221,Longitude:-80.603412,Altitude:188.1,Speed:0.06173333,Accuracy:2.7,Provider:gps,Time:04/16/2015 09:32:36 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1206
Species	Populus tremuloides	Location	
DBH (cm)	41	Latitude:45.850225,Longitude:-80.603396,Altitude:189.3,Speed:0.5298778,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:34:35 EDT	
Height (m)	20		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1602
Cavity Height (m)	15		
Cavity Notes			
Tree ID	2		1209
Species	Populus tremuloides	Location	
DBH (cm)	45	Latitude:45.85024,Longitude:-80.603322,Altitude:191.4,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:36:34 EDT	
Height (m)	20		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1605
Cavity Height (m)	18		
Cavity Notes	Cracks in bark broken branches		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		1212
Species	Populus tremuloides	Location	
DBH (cm)	41	Latitude:45.850274,Longitude:-80.603444,Altitude:192.3,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:38:40 EDT	
Height (m)	20		
Canopy Cover (%)	10		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		1608
Cavity Height (m)	16	
Cavity Notes		

Plot ID	BAT-S-M8-485	996
Location	Plot Notes	
Latitude:45.850033,Longitude:-80.604083,Altitude:188.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 09:48:39 EDT		

Plot ID	BAT-S-M8-487	999
Location	Plot Notes	
Latitude:45.850085,Longitude:-80.604677,Altitude:192.1,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 09:55:14 EDT		

Plot ID	BAT-S-M8-479	1002
Location	Plot Notes	
Latitude:45.849985,Longitude:-80.604699,Altitude:191.7,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:59:00 EDT		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1215
Species	Acer rubrum	Location	
DBH (cm)	55	Latitude:45.849854,Longitude:-80.605214,Altitude:198.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:03:42 EDT	
Height (m)	20		
Canopy Cover (%)	100		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1611
Cavity Height (m)	15	
Cavity Notes		
Loose bark and cracks		

Tree ID	2		1218
Species	Betula papyrifera	Location	
DBH (cm)	40	Latitude:45.849825,Longitude:-80.605347,Altitude:198.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:06:48 EDT	
Height (m)	15		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class			
Suitable location for audio monitor?	N		

Cavity Details		1614
Cavity Height (m)	14	
Cavity Notes		
Broken branches ith loose bark		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	1221
Species	Acer rubrum	Location
DBH (cm)	39	Latitude:45.849802,Longitude:-80.605366,Altitude:196.6,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/16/2015 10:09:10 EDT
Height (m)	15	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1617
Cavity Height (m)	10	
Cavity Notes		
Plot ID	BAT-S-M8-473	1005
Location		Plot Notes
Latitude:45.849681,Longitude:-80.605518,Altitude:195.5,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:20:38 EDT		
Tree ID	1	1224
Species	Acer rubrum	Location
DBH (cm)	38	Latitude:45.849685,Longitude:-80.605532,Altitude:195.6,Speed:0.20063333,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:21:47 EDT
Height (m)	16	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1620

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	

Plot ID	BAT-S-M8-470	1008

Location	Plot Notes
Latitude:45.849631,Longitude:-80.606362,Altitude:192.1,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:27:49 EDT	

Tree ID	1	1227

Species	Populus tremuloides	Location	
DBH (cm)	49	Latitude:45.849639,Longitude:-80.606379,Altitude:191.7,Speed:0.12861112,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:28:38 EDT	
Height (m)	8		
Canopy Cover (%)	5		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1623

Cavity Height (m)	8
Cavity Notes	Brokeb branch and woodpecker holes

Plot ID	BAT-S-M8-468	1011

Location	Plot Notes
Latitude:45.849523,Longitude:-80.607014,Altitude:181.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:35:01 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1230
Species	Acer rubrum	Location
DBH (cm)	34	Latitude:45.849524,Longitude:-80.607025,Altitude:181.5,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:35:27 EDT
Height (m)	10	
Canopy Cover (%)	100	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1626
Cavity Height (m)	8
Cavity Notes	Crack at top of tree

Plot ID	BAT-S-M8-465	1014
Location	Latitude:45.849299,Longitude:-80.607327,Altitude:187.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:41:44 EDT	Plot Notes

Plot ID	BAT-S-M8-462	1017
Location	Latitude:45.849095,Longitude:-80.607901,Altitude:195.8,Speed:0.38068888,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:05:03 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1233
Species	Populus tremuloides	Location
DBH (cm)	44	Latitude:45.849068,Longitude:-80.608425,Altitude:188.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:07:28 EDT
Height (m)	10	
Canopy Cover (%)	30	
# of Cavities	4	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1629
Cavity Height (m)	10	
Cavity Notes	Several holes cracks in bark and into hollow of tree	
Plot ID	BAT-S-M8-456	1020
Location	Latitude:45.849038,Longitude:-80.608441,Altitude:188.4,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:11:06 EDT	Plot Notes
Tree ID	1	1236
Species	Acer rubrum	Location
DBH (cm)	40	Latitude:45.848789,Longitude:-80.608925,Altitude:190.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:15:51 EDT
Height (m)	16	
Canopy Cover (%)	10	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1632

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Rough bark

Tree ID	2		1239
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.848793,Longitude:-80.60896,Altitude:190.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:17:40 EDT	
Height (m)	16		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1635
Cavity Height (m)	8
Cavity Notes	Cracks and broken branches

Plot ID	BAT-S-M8-446		1023
Location	Latitude:45.84843,Longitude:-80.608807,Altitude:186.8,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:22:17 EDT	Plot Notes	

Plot ID	BAT-S-M8-441		1026
Location	Latitude:45.848152,Longitude:-80.609564,Altitude:188.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:38:13 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1242
Species	Populus tremuloides	Location	
DBH (cm)	49	Latitude:45.848156,Longitude:-80.609566,Altitude:188.3,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:39:00 EDT	
Height (m)	25		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1638
Cavity Height (m)	20		
Cavity Notes	Two failed branch holes into hollows		
Plot ID	BAT-S-M8-432		1029
Location	Latitude:45.847813,Longitude:-80.609845,Altitude:180.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:47:46 EDT	Plot Notes	
Tree ID	1		1245
Species	Populus grandidentata	Location	
DBH (cm)	35	Latitude:45.847809,Longitude:-80.609848,Altitude:180.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:48:07 EDT	
Height (m)	23		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1641

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	13
Cavity Notes	Nice cavity

Tree ID	2		1248
Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.847792,Longitude:-80.609907,Altitude:180.5,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:52:35 EDT	
Height (m)	13		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1644
Cavity Height (m)	10
Cavity Notes	Lots of loose bark

Plot ID	BAT-S-M8-435		1032
Location		Plot Notes	
Latitude:45.84804,Longitude:-80.610452,Altitude:181.2,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:00:09 EDT			

Plot ID	BAT-S-M8-423		1035
Location		Plot Notes	
Latitude:45.847658,Longitude:-80.610725,Altitude:178.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:07:59 EDT			

Plot ID	BAT-S-M8-428		1038

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847641,Longitude:-80.61075,Altitude:179.3,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:09:31 EDT	

Tree ID	1	1251

Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.84774,Longitude:-80.611142,Altitude:179.0,Speed:0.11317778,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:11:17 EDT	
Height (m)	15		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	1647

Cavity Height (m)	5
Cavity Notes	
Nice small cavity between fork	

Tree ID	2	1254

Species	Betula papyrifera	Location	
DBH (cm)	37	Latitude:45.847806,Longitude:-80.611212,Altitude:180.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:16:41 EDT	
Height (m)	16		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1650

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Loose bark

Plot ID	BAT-S-M8-438	1041

Location	Plot Notes
Latitude:45.848138,Longitude:-80.611346,Altitude:181.0,Speed:0.4064111,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:21:29 EDT	

Tree ID	1	1257

Species	Populus grandidentata	Location
DBH (cm)	28	Latitude:45.848185,Longitude:-80.611386,Altitude:182.8,Speed:0.12346666,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:22:12 EDT
Height (m)	12	
Canopy Cover (%)	13	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1653

Cavity Height (m)	10
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1260
Species	Populus grandidentata	Location	
DBH (cm)	38	Latitude:45.84828,Longitude:-80.611428,Altitude:184.2,Speed:0.39097777,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:26:59 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1656
Cavity Height (m)	8		
Cavity Notes			
Plot ID	BAT-S-M8-455		1044
Location		Plot Notes	
Latitude:45.848743,Longitude:-80.611434,Altitude:172.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:32:08 EDT			
Tree ID	1		1263
Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.848743,Longitude:-80.611434,Altitude:172.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:32:25 EDT	
Height (m)	17		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1659

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	Furrowed bark, and some cracks

Plot ID	BAT-S-M8-447	1047

Location	Plot Notes
Latitude:45.848483,Longitude:-80.611164,Altitude:181.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:42:20 EDT	

Plot ID	BAT-S-M8-449	1050

Location	Plot Notes
Latitude:45.848487,Longitude:-80.610691,Altitude:176.3,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:45:15 EDT	

Plot ID	BAT-S-M8-442	1053

Location	Plot Notes
Latitude:45.84814,Longitude:-80.610148,Altitude:178.6,Speed:0.4732889,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:52:29 EDT	

Tree ID	1	1266

Species	Populus tremuloides	Location	
DBH (cm)	32	Latitude:45.848192,Longitude:-80.609984,Altitude:180.7,Speed:0.4064111,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:56:09 EDT	
Height (m)	16		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1662

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	
Round hole	

Cavity Details 1665

Cavity Height (m)	8
Cavity Notes	
Hole at top	

Map Number	S-M27	Field Crew	AMI ARSENAULT ADAM MCCLELLAND	219

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Warm slightly over cast	
Start Date	4/16/2015 9:24:10 AM	Precipitation	0		
End Date	4/16/2015 1:49:44 PM	Cloud Cover	40.00		

Plot ID	BAT-S-M29-288	1056

Location	Plot Notes
Latitude:45.83697,Longitude:-80.59332,Altitude:197.6,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/16/2015 09:27:36 EDT	Rock barren to east of centroid. Fairly open area for trees to grow. Lots under 25cm dbh

Tree ID	1	1269

Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.836999,Longitude:-80.593328,Altitude:199.1,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:37:44 EDT	
Height (m)	16		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Live poplar	
Suitable location for audio monitor?	N		

Cavity Details 1668

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	9
Cavity Notes	Small hole under dead branch

Plot ID	BAT-S-M27-282	1059

Location	Plot Notes
Latitude:45.834231,Longitude:-80.592861,Altitude:197.1,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:13:36 EDT	Large polygon with pine and birch. Lots of dead trees suitable for bat habitat

Tree ID	1	1272

Species	Unknown	Location
DBH (cm)	28	Latitude:45.834255,Longitude:-80.592875,Altitude:197.9,Speed:0.59675556,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:14:15 EDT
Height (m)	8	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Dead tree with lots of Woodpecker holes and crevices. No bark or twigs to help identify tree.
Suitable location for audio monitor?	Y	

Cavity Details	1671
Cavity Height (m)	2
Cavity Notes	Small deep hole

Cavity Details	1674
Cavity Height (m)	4
Cavity Notes	Crevice

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1275
Species	Unknown	Location	
DBH (cm)	32	Latitude:45.834232,Longitude:-80.592829,Altitude:198.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:18:21 EDT	
Height (m)	15		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Dead tree with no bark or twigs to help identify tree. Lots of holes and crevices	
Suitable location for audio monitor?	Y		
Cavity Details			1677
Cavity Height (m)	4		
Cavity Notes	Deep crevice		
Cavity Details			1680
Cavity Height (m)	13		
Cavity Notes	Woodpecker hole near top of snag		
Tree ID	3		1278
Species	Betula papyrifera	Location	
DBH (cm)	39	Latitude:45.834106,Longitude:-80.592951,Altitude:202.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:23:30 EDT	
Height (m)	13		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Lots of holes and crevices up near top of snag.	
Suitable location for audio monitor?	Y		
Cavity Details			1683

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	Woodpecker holes that go deep into trunk

Cavity Details 1686

Cavity Height (m)	11
Cavity Notes	Large deep crevice

Tree ID 4 1281

Species	Pinus resinosa	Location	
DBH (cm)	0	Latitude:45.834271,Longitude:-80.593028,Altitude:199.3,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:27:33 EDT	
Height (m)	11		
Canopy Cover (%)	30		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Dead pine with lots of holes and crevices	
Suitable location for audio monitor?	Y		

Cavity Details 1689

Cavity Height (m)	7
Cavity Notes	Woodpecker holes

Cavity Details 1692

Cavity Height (m)	10
Cavity Notes	Large crevice

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5	1284
Species	Unknown	
DBH (cm)		
Height (m)	16	
Canopy Cover (%)	30	
# of Cavities	2	
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Location

Latitude:45.834167,Longitude:-80.592634,Altitude:199.0,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:36:06 EDT

Notes

Dead tree with no bark or twigs to identify properly.. maybe pine. Lots of holes and crevice near top of tree.

Cavity Details 1695

Cavity Height (m) 13

Cavity Notes

Crevices

Cavity Details 1698

Cavity Height (m) 4

Cavity Notes

Woodpecker hole

Plot ID BAT-S-M27-276 1062

Location

Latitude:45.833582,Longitude:-80.595319,Altitude:197.5,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/16/2015 10:51:14 EDT

Plot Notes

Just past rock barren and into wet thicket. No cavity trees inside plot. One good one just outside.

Plot ID BAT-S-M27-281 1065

Location

Latitude:45.833822,Longitude:-80.595418,Altitude:197.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:57:57 EDT

Plot Notes

Centroid on small rock barren. White pines jack pine maple and tamarack surrounding.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1287
Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.833838,Longitude:-80.595413,Altitude:197.0,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:02:21 EDT	
Height (m)	15		
Canopy Cover (%)	20		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Live tree with small hole from branch decay	
Suitable location for audio monitor?	N		
Cavity Details			1701
Cavity Height (m)	8		
Cavity Notes			
Small hole from branch decay			
Plot ID	BAT-S-M27-279		1068
Location		Plot Notes	
Latitude:45.833638,Longitude:-80.595973,Altitude:195.0,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:11:14 EDT		Rock barren and thicket	
Tree ID	1		1290
Species	Poplar	Location	
DBH (cm)	57		
Height (m)	12		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	6 Very old dead tree	Dead poplar. Some holes in tree.	
Suitable location for audio monitor?	N		
Cavity Details			1704

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Large hole in tree

Cavity Details 1707

Cavity Height (m)	6
Cavity Notes	Hole in tree

Plot ID	BAT-S-M27-271	1071
Location	Latitude:45.833325,Longitude:-80.596373,Altitude:192.6,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:22:13 EDT	
Plot Notes	Good sized trees here. Open space to Grow. Dry. Pines poplars and birches	
Tree ID	1	1293
Species	Pinus resinosa	
DBH (cm)	76	
Height (m)	10	
Canopy Cover (%)	50	
# of Cavities	2	
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	Y	
Location	Latitude:45.833173,Longitude:-80.596459,Altitude:191.1,Speed:0.14404444,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:26:40 EDT	
Notes	Large dead pine, large holes in tree and large split where top of tree fell off	

Cavity Details 1710

Cavity Height (m)	8
Cavity Notes	Large deep Woodpecker hole

Cavity Details 1713

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	9
Cavity Notes	Large deep Woodpecker hole

Plot ID	BAT-S-M27-263	1074

Location	Plot Notes
Latitude:45.832819,Longitude:-80.597442,Altitude:191.8,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:36:33 EDT	On edge of small rock barren. Slightly wet area. Fairly open space. Red maple and birch. No cavity trees surveyed

Plot ID	BAT-S-M27-262	1077

Location	Plot Notes
Latitude:45.832809,Longitude:-80.597895,Altitude:192.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:47:02 EDT	On rock barren. Lots of Jack pine. Many trees in plot are smaller then 25cm dbh. No tree cavities found.

Plot ID	BAT-S-M27-260	1080

Location	Plot Notes
Latitude:45.832618,Longitude:-80.59816,Altitude:194.6,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:57:58 EDT	Rock barren, wet area within plotJack pine, tamarack

Plot ID	BAT-S-M27-253	1083

Location	Plot Notes
Latitude:45.832346,Longitude:-80.598412,Altitude:190.0,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:04:33 EDT	Numerous dead fallen trees, edge of rock barrenJack pine, red maple, white birch

Plot ID	BAT-S-M27-250	1086

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.832074,Longitude:-80.598727,Altitude:194.4,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:46:54 EDT	Rock barren, numerous fallen dead treesJack pine, white pine, red maple, poplar, white birch

Plot ID	BAT-S-M24-247	1089

Location	Plot Notes
Latitude:45.831858,Longitude:-80.599045,Altitude:188.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:54:05 EDT	Numerous dead fallen trees, edge of rock barrenJack pine, white birch, tamarack, red mapleM27-260, 253,250, M24-247 potential jack pine stand

Plot ID	BAT-S-M24-240	1092

Location	Plot Notes
Latitude:45.831562,Longitude:-80.599387,Altitude:187.0,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 01:08:41 EDT	Edge of rock barren, wet area in plot, open field SE of plotAll trees too smallJack pine, white birch, tamarack

Plot ID	BAT-S-M24-232	1095

Location	Plot Notes
Latitude:45.831255,Longitude:-80.600027,Altitude:188.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/16/2015 01:17:44 EDT	Rock barren, numerous dead fallen treesJack pine, white pine, red maple, white birch

Plot ID	BAT-S-M24-238	1098

Location	Plot Notes
Latitude:45.831492,Longitude:-80.600295,Altitude:189.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 01:30:41 EDT	Edge of rock barren, wet area in plotJack pine, white birch, white pineTrees too small

Plot ID	BAT-S-M24-242	1101

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.831636,Longitude:-80.599903,Altitude:188.7,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/16/2015 01:40:56 EDT	White birch, jack pine, tamarackEdge of rock barren, wet area in plot

Tree ID	1	1296

Species	Pinus banksiana	Location	
DBH (cm)	25	Latitude:45.831636,Longitude:-80.599871,Altitude:190.5,Speed:0.22635555,Accuracy:1.8,Provider:gps,Time:04/16/2015 01:47:49 EDT	
Height (m)	17		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1716

Cavity Height (m)	14

Cavity Notes

Vertical crack near top of tree, 30 cm

Map Number	S-M9	Field Crew	SARAH RICHER, TOM SHORNEY, MATT HERBERT	222

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1	:)	
Start Date	4/16/2015 9:51:15 AM	Precipitation	0		
End Date	4/16/2015 5:06:34 PM	Cloud Cover	30.00		

Plot ID	BAT-S-M9-366	1104

Location	Plot Notes
Latitude:45.844362,Longitude:-80.616964,Altitude:191.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:52:33 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1299
Species	Largetooth aspen	Location	
DBH (cm)	54	Latitude:45.844357,Longitude:-80.61696,Altitude:191.6,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:53:28 EDT	
Height (m)	19		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1719
Cavity Height (m)	12		
Cavity Notes	Small cavity at branch scar		
Tree ID	2		1302
Species	Jackpine	Location	
DBH (cm)	29	Latitude:45.844425,Longitude:-80.616992,Altitude:195.7,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:05:00 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1722
Cavity Height (m)	6		
Cavity Notes	Cavity in branch scar		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		1305
Species	Largetooth aspen	Location	
DBH (cm)	53	Latitude:45.844284,Longitude:-80.616928,Altitude:195.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:11:34 EDT	
Height (m)	10		
Canopy Cover (%)	25		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1725
Cavity Height (m)	8		
Cavity Notes	Large cavity accessing central cavity		
Cavity Details			1728
Cavity Height (m)	1		
Cavity Notes	Large cavity accessing central cavity		
Tree ID	4		1308
Species	Largetooth aspen	Location	
DBH (cm)	42	Latitude:45.844225,Longitude:-80.61688,Altitude:200.9,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:15:52 EDT	
Height (m)	20		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1731

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	15
Cavity Notes	Medium crack in canopy of tree

Plot ID	BAT-S-M9-364	1107

Location	Plot Notes
Latitude:45.844096,Longitude:-80.61668,Altitude:201.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:25:55 EDT	

Tree ID	1	1311

Species	Largetooth aspen	Location
DBH (cm)	43	Latitude:45.844096,Longitude:-80.61668,Altitude:201.6,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:25:59 EDT
Height (m)	8	
Canopy Cover (%)	20	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1734

Cavity Height (m)	5
Cavity Notes	Large central cavity with several access points

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1314
Species	Largetooth aspen	Location
DBH (cm)	37	Latitude:45.844026,Longitude:-80.61664,Altitude:202.0,Speed:0.3704,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:30:25 EDT
Height (m)	16	
Canopy Cover (%)	25	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details		1737
Cavity Height (m)	8	
Cavity Notes	Large cavity providing ideal access to central cavity	

Tree ID	3	1317
Species	Largetooth aspen	Location
DBH (cm)	32	Latitude:45.84405,Longitude:-80.616722,Altitude:201.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:35:42 EDT
Height (m)	8	
Canopy Cover (%)	25	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1740
Cavity Height (m)	6	
Cavity Notes	Large crack accessing central cavity	

Plot ID	BAT-S-M9-363	1110

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.843923,Longitude:-80.615873,Altitude:198.3,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:43:32 EDT	In the middle of a marsh

Plot ID	BAT-S-M9-365	1113

Location	Plot Notes
Latitude:45.844248,Longitude:-80.616228,Altitude:198.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:49:26 EDT	

Plot ID	BAT-S-M9-367	1116

Location	Plot Notes
Latitude:45.844626,Longitude:-80.616319,Altitude:186.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:15:19 EDT	Moved plot to the east as a result of thicket swamp

Plot ID	BAT-S-M9-370	1119

Location	Plot Notes
Latitude:45.844958,Longitude:-80.616209,Altitude:188.0,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:19:51 EDT	Moved plot north due to overlap

Tree ID	1	1320

Species	Largetooth aspen	Location	
DBH (cm)	37	Latitude:45.844958,Longitude:-80.616209,Altitude:188.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:20:09 EDT	
Height (m)	20		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1743

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 15

Cavity Notes

Cavity along horizontal branch above surrounding canopy

Plot ID BAT-S-M9-372 1122

Location

Latitude:45.845327,Longitude:-80.615437,Altitude:195.5,Speed:0.0,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:42:56 EDT

Plot Notes

Tree ID 1 1323

Species Jackpine

DBH (cm) 37

Height (m) 12

Canopy Cover (%) 60

# of Cavities 1

Decay Class 4 Recently dead tree

Suitable location for audio monitor? N

Location

Latitude:45.845336,Longitude:-80.615435,Altitude:195.9,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:43:48 EDT

Notes

Cavity Details 1746

Cavity Height (m) 5

Cavity Notes

Several woodpecker holes feeding central cavity

Plot ID BAT-S-M9-374 1125

Location

Latitude:45.845569,Longitude:-80.615448,Altitude:182.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/16/2015 12:04:26 EDT

Plot Notes

Site undulating topography with several wet areas

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1326
Species	Betula papyrifera	Location	
DBH (cm)	33	Latitude:45.845623,Longitude:-80.615288,Altitude:184.7,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:05:37 EDT	
Height (m)	13		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1749
Cavity Height (m)	8		
Cavity Notes	Large cavities which extend under birch bark		
Plot ID	BAT-S-M9-375		1128
Location	Latitude:45.845575,Longitude:-80.615027,Altitude:184.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:13:29 EDT	Plot Notes	
Tree ID	1		1329
Species	Largetooth aspen	Location	
DBH (cm)	47	Latitude:45.845573,Longitude:-80.61503,Altitude:184.5,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:14:00 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1752

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Large linear cavity providing access to central cavity

Tree ID	2		1332
Species	Unknown species	Location	
DBH (cm)	43	Latitude:45.845733,Longitude:-80.615064,Altitude:185.1,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:22:36 EDT	
Height (m)	4		
Canopy Cover (%)	55		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1755
Cavity Height (m)	0
Cavity Notes	Large older tree with cavity to the top. No shelter from rain or elements.

Map Number	S-M28	Field Crew	AMY INGRISELLI NATALIA SIMONOVA	225

Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes
Tablet	AECOM2	Wind Speed (beaufort)	3	
Start Date	4/16/2015 9:38:22 AM	Precipitation	0	
End Date	4/16/2015 3:36:13 PM	Cloud Cover	85.00	

Plot ID	BAT-S-M28-331		1131
Location		Plot Notes	
Latitude:45.839734,Longitude:-80.599887,Altitude:192.7,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/16/2015 09:41:50 EDT		Rock barren and small conifer swamp between rock outcrops. Heavy Alces alces browse on rock barren.	
Plot ID	BAT-S-M28-335		1134

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.839945,Longitude:-80.599696,Altitude:191.6,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:49:40 EDT	Mostly bog between rock outcrops, small conifers

Plot ID: BAT-S-M28-337 — 1137

Location	Plot Notes
Latitude:45.840136,Longitude:-80.599452,Altitude:191.9,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:53:09 EDT	Bedrock next to thicket

Tree ID: 1 — 1335

Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.840154,Longitude:-80.599403,Altitude:190.8,Speed:0.4527111,Accuracy:1.8,Provider:gps,Time:04/16/2015 09:54:44 EDT	
Height (m)	12		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details — 1758

Cavity Height (m): 4

Cavity Notes

Cavity in broken branch

Plot ID: BAT-S-M28-332 — 1140

Location	Plot Notes
Latitude:45.839837,Longitude:-80.599287,Altitude:190.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:07:18 EDT	Alder thicket

Plot ID: BAT-S-M28-330 — 1143

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.839628,Longitude:-80.599523,Altitude:196.3,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:15:03 EDT	Bedrock and thicket

Plot ID	BAT-S-M28-334	1146

Location	Plot Notes
Latitude:45.839865,Longitude:-80.598908,Altitude:192.4,Speed:0.14404444,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:39:00 EDT	Swamp/thicket

Tree ID	1	1338

Species	Pinus spp.	Location
DBH (cm)	35	Latitude:45.839879,Longitude:-80.598917,Altitude:192.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:39:51 EDT
Height (m)	3	
Canopy Cover (%)	80	
# of Cavities	2	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1761
Cavity Height (m)	2	
Cavity Notes	Long crack in trunk of snag	

Cavity Details		1764
Cavity Height (m)	3	
Cavity Notes	Few cracks and deep knots and woodpecker holes, from 1 to 3 m. High	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1341
Species	Pinus banksiana	Location	
DBH (cm)	36	Latitude:45.839938,Longitude:-80.598928,Altitude:193.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:45:48 EDT	
Height (m)	15		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1767
Cavity Height (m)	7		
Cavity Notes	Loose bark from 7-15m high up trunk		
Tree ID	3		1344
Species	Acer rubrum	Location	
DBH (cm)	31	Latitude:45.839985,Longitude:-80.598966,Altitude:194.8,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:49:16 EDT	
Height (m)	12		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1770
Cavity Height (m)	2		
Cavity Notes			
Plot ID	BAT-S-M28-327		1149

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.839591,Longitude:-80.598192,Altitude:191.1,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/16/2015 10:56:41 EDT	Bedrock and conifer

Plot ID	BAT-S-M28-326	1152

Location	Plot Notes
Latitude:45.83957,Longitude:-80.597705,Altitude:193.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:10:48 EDT	

Tree ID	1	1347

Species	Acer rubrum	Location
DBH (cm)	38	Latitude:45.839576,Longitude:-80.597667,Altitude:193.0,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:12:19 EDT
Height (m)	4	
Canopy Cover (%)	60	
# of Cavities		Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1773
Cavity Height (m)	4	

Cavity Notes

Loose bark on trunk suitable for cover, between 1-4m high

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1350
Species	Populus tremuloides	Location
DBH (cm)	27	
Height (m)	18	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	1776
Cavity Height (m)	7
Cavity Notes	Maybe woodpecker hole but deep and decayed

Cavity Details	1779
Cavity Height (m)	3
Cavity Notes	Decayed, deep knot

Plot ID	BAT-S-M28-323	1155
Location	Latitude:45.839296,Longitude:-80.59743,Altitude:186.2,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:25:40 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1353
Species	Acer rubrum	Location
DBH (cm)	30	Latitude:45.839281,Longitude:-80.597448,Altitude:185.8,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:26:41 EDT
Height (m)	16	
Canopy Cover (%)	70	
# of Cavities		Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1782
Cavity Height (m)	12	
Cavity Notes	Deep furrows,,crack cavity and loose bark at old branch base	
Cavity Details		1785
Cavity Height (m)	10	
Cavity Notes	Small cavities in bark and furrows of old branch locations between 8 and 13m	
Tree ID	2	1356
Species	Acer rubrum	Location
DBH (cm)	25	Latitude:45.839256,Longitude:-80.597498,Altitude:189.7,Speed:0.2520778,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:36:51 EDT
Height (m)	3	
Canopy Cover (%)	85	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1788

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Crack at base to 1m to central void. Central void enclosed, providing cover. Also some loose bark

Plot ID	BAT-S-M28-321	1158

Location	Plot Notes
Latitude:45.839242,Longitude:-80.597081,Altitude:184.0,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:46:41 EDT	

Tree ID	1	1359

Species	Acer rubrum	Location
DBH (cm)	29	Latitude:45.839246,Longitude:-80.597102,Altitude:185.9,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:51:13 EDT
Height (m)	3	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1791

Cavity Height (m)	2
Cavity Notes	Crack/loose. Bark and old woodpecker hole leading to center void

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1362
Species	Acer rubrum	Location
DBH (cm)	26	Latitude:45.839247,Longitude:-80.597119,Altitude:185.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:53:04 EDT
Height (m)	15	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1794
Cavity Height (m)	2	
Cavity Notes		
Tree ID	3	1365
Species	Betula papyrifera	Location
DBH (cm)	27	Latitude:45.839211,Longitude:-80.597116,Altitude:187.1,Speed:0.15433334,Accuracy:1.8,Provider:gps,Time:04/16/2015 11:55:54 EDT
Height (m)	3	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1797
Cavity Height (m)	2	
Cavity Notes	Decaying trunk under bark provides cover.	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4	1368
Species	Acer rubrum	Location
DBH (cm)	51	Latitude:45.839275,Longitude:-80.597098,Altitude:188.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 11:59:54 EDT
Height (m)	20	
Canopy Cover (%)	80	
# of Cavities	3	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details	1800
Cavity Height (m)	3
Cavity Notes	Long crack in. Trunk

Cavity Details	1803
Cavity Height (m)	18
Cavity Notes	Cavity into dead branch

Cavity Details	1806
Cavity Height (m)	18
Cavity Notes	Cavity in. Dead branch

Plot ID	BAT-S-M28-325	1161
Location	Latitude:45.839378,Longitude:-80.596822,Altitude:185.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:17:02 EDT	Plot Notes: Thicket

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M28-322	1164

Location	Plot Notes
Latitude:45.839279,Longitude:-80.596334,Altitude:186.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:24:41 EDT	Dense shrub thicket with heavy Alces Alces

Plot ID	BAT-S-M28-319	1167

Location	Plot Notes
Latitude:45.83906,Longitude:-80.596154,Altitude:179.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:41:59 EDT	Alces alces browse. Thicket.

Plot ID	BAT-S-M28-317	1170

Location	Plot Notes
Latitude:45.839004,Longitude:-80.595646,Altitude:177.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/16/2015 12:48:08 EDT	

Plot ID	BAT-S-M29-296	1173

Location	Plot Notes
Latitude:45.837228,Longitude:-80.593595,Altitude:170.5,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/16/2015 01:30:36 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1371
Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.837204,Longitude:-80.59354,Altitude:172.4,Speed:0.14404444,Accuracy:2.1,Provider:gps,Time:04/16/2015 01:31:25 EDT	
Height (m)	2		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1809
Cavity Height (m)	1		
Cavity Notes	Center void but is covered and protected from elements, narrow opening		
Tree ID	2		1374
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.837054,Longitude:-80.593318,Altitude:182.5,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/16/2015 01:39:24 EDT	
Height (m)	13		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1812
Cavity Height (m)	8		
Cavity Notes	Crack in trunk plus a bit of loose bark		
Map Number	N-M2, N-M3	Field Crew	KRISTAN WASHBURN, KASEY MCKENZIE AND ROB CONOHAN
			228

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM1	Wind Speed (beaufort)	1		
Start Date	4/17/2015 8:06:46 AM	Precipitation	0		
End Date	4/17/2015 1:30:43 PM	Cloud Cover	100.00		

Plot ID	BAT-N-M2-233	1176

Location	Plot Notes
Latitude:45.885596,Longitude:-80.577185,Altitude:184.7,Speed:0.21092223,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:00:24 EDT	

Tree ID	1	1377

Species	Populus tremuloides	Location	
DBH (cm)	38	Latitude:45.885595,Longitude:-80.577185,Altitude:184.9,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:01:16 EDT	
Height (m)	14		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1815

Cavity Height (m)	14

Cavity Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1380
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.88561,Longitude:-80.57716,Altitude:187.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:04:18 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1818
Cavity Height (m)	10		
Cavity Notes	Small holes near dead branches		
Plot ID	BAT-N-M2-232		1179
Location	Latitude:45.885551,Longitude:-80.577169,Altitude:188.1,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/17/2015 09:08:14 EDT	Plot Notes	
Tree ID	2		1383
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.885423,Longitude:-80.577469,Altitude:193.6,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/17/2015 09:21:28 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1821

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	

Plot ID	BAT-N-M2-231	1182

Location	Plot Notes
Latitude:45.885395,Longitude:-80.577531,Altitude:192.8,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/17/2015 09:26:37 EDT	

Tree ID	1	1386

Species	Populus tremuloides	Location	
DBH (cm)	31	Latitude:45.885333,Longitude:-80.577857,Altitude:190.9,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:32:28 EDT	
Height (m)	17		
Canopy Cover (%)	25		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	1824

Cavity Height (m)	13
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1389
Species	Acer rubrum	Location
DBH (cm)	28	Latitude:45.885301,Longitude:-80.577872,Altitude:194.2,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:39:23 EDT
Height (m)	17	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1827
Cavity Height (m)	13	
Cavity Notes		
Plot ID	BAT-N-M2-230	1185
Location	Plot Notes	
Latitude:45.885,Longitude:-80.577955,Altitude:192.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/17/2015 09:50:19 EDT		
Tree ID	1	1392
Species	Acer rubrum	Location
DBH (cm)	27	Latitude:45.885064,Longitude:-80.577817,Altitude:195.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:42:56 EDT
Height (m)	14	
Canopy Cover (%)	30	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1830

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	

Tree ID	2		1395
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.885,Longitude:-80.577948,Altitude:192.5,Speed:0.1389,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:47:29 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1833
Cavity Height (m)	10
Cavity Notes	

Plot ID	BAT-S-M2-229		1188
Location		Plot Notes	
Latitude:45.885047,Longitude:-80.578308,Altitude:196.0,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:17:01 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1398
Species	Acer rubrum	Location
DBH (cm)	30	Latitude:45.88506,Longitude:-80.578355,Altitude:189.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:20:34 EDT
Height (m)	16	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1836
Cavity Height (m)	13	
Cavity Notes		
Plot ID	BAT-N-M2-228	1194
Location	Plot Notes	
Latitude:45.885049,Longitude:-80.578385,Altitude:187.9,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:24:32 EDT		
Tree ID	1	1401
Species	Acer rubrum	Location
DBH (cm)	28	Latitude:45.884714,Longitude:-80.578779,Altitude:184.5,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:30:24 EDT
Height (m)	16	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1839

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	

Plot ID	BAT-S-M2-226	1200

Location	Plot Notes
Latitude:45.884494,Longitude:-80.578678,Altitude:182.8,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:38:40 EDT	

Tree ID	1	1407

Species	Populus grandidentata	Location
DBH (cm)	40	Latitude:45.884481,Longitude:-80.578592,Altitude:180.4,Speed:0.39097777,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:43:21 EDT
Height (m)	24	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details	1845

Cavity Height (m)	20
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1410
Species	Populus grandidentata	Location	
DBH (cm)	32	Latitude:45.884503,Longitude:-80.578661,Altitude:180.6,Speed:0.09774444,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:45:28 EDT	
Height (m)	23		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			1848
Cavity Height (m)	1		
Cavity Notes			
Tree ID	3		1413
Species	Populus grandidentata	Location	
DBH (cm)	47	Latitude:45.884469,Longitude:-80.578644,Altitude:177.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:47:16 EDT	
Height (m)	23		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			1851
Cavity Height (m)	20		
Cavity Notes			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		1422
Species	Populus grandidentata	Location	
DBH (cm)	26	Latitude:45.884435,Longitude:-80.578624,Altitude:177.0,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:51:14 EDT	
Height (m)	20		
Canopy Cover (%)	20		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			1860
Cavity Height (m)	15		
Cavity Notes			
Tree ID	5		1428
Species	Populus grandidentata	Location	
DBH (cm)	34	Latitude:45.88441,Longitude:-80.578634,Altitude:176.7,Speed:0.12861112,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:54:15 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1866
Cavity Height (m)	10		
Cavity Notes			
Plot ID	BAT-N-M2-225		1239

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.884268,Longitude:-80.578986,Altitude:184.3,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:	

Tree ID	1	1434
Species	Populus tremuloides	Location
DBH (cm)	30	Latitude:45.884272,Longitude:-80.578988,Altitude:184.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:03:55 EDT
Height (m)	20	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1872
Cavity Height (m)	12	
Cavity Notes		

Tree ID	2	1443
Species	Populus grandidentata	Location
DBH (cm)	28	Latitude:45.884319,Longitude:-80.57902,Altitude:184.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:08:46 EDT
Height (m)	23	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		1878

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	18
Cavity Notes	

Tree ID	3	1452

Species	Populus grandidentata	Location	
DBH (cm)	28	Latitude:45.884322,Longitude:-80.579015,Altitude:184.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:10:49 EDT	
Height (m)	20		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1890

Cavity Height (m)	18
Cavity Notes	

Plot ID	BAT-N-M2-221	1260

Location	Plot Notes
Latitude:45.883512,Longitude:-80.579513,Altitude:181.8,Speed:0.5144445,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:21:09 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1464
Species	Populus tremuloides	Location	
DBH (cm)	35	Latitude:45.883399,Longitude:-80.579897,Altitude:181.9,Speed:0.32924443,Accuracy:3.3,Provider:gps,Time:04/17/2015 11:25:54 EDT	
Height (m)	25		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1905
Cavity Height (m)	20		
Cavity Notes			
Tree ID	2		1470
Species	Populus tremuloides	Location	
DBH (cm)	42	Latitude:45.883315,Longitude:-80.579869,Altitude:185.9,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:31:40 EDT	
Height (m)	25		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1911
Cavity Height (m)	18		
Cavity Notes			
Plot ID	BAT-N-M3-203		1269

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.880173,Longitude:-80.581161,Altitude:200.9,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:24:03 EDT	

Plot ID: BAT-N-M3-200 — 1275

Location	Plot Notes
Latitude:45.87997,Longitude:-80.581505,Altitude:206.2,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:34:35 EDT	

Tree ID: 1 — 1476

Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.879963,Longitude:-80.58152,Altitude:205.8,Speed:0.08231111,Accuracy:2.4,Provider:gps,Time:04/17/2015 12:36:12 EDT	
Height (m)	12		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details — 1917

Cavity Height (m): 10

Cavity Notes

Loose bark and broken branch

Plot ID: BAT-N-M3-197 — 1281

Location	Plot Notes
Latitude:45.879911,Longitude:-80.581224,Altitude:193.9,Speed:0.20063333,Accuracy:3.0,Provider:gps,Time:04/17/2015 12:43:01 EDT	

Plot ID: BAT-N-M3-191 — 1284

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.879679,Longitude:-80.581326,Altitude:200.9,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/17/2015 12:52:43 EDT	

Tree ID	1	1485

Species	Populus grandidentata	Location	
DBH (cm)	25	Latitude:45.8797,Longitude:-80.581309,Altitude:200.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:54:27 EDT	
Height (m)	16		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1929

Cavity Height (m)	7

Cavity Notes

Cavity behind bark

Map Number	N-M1	Field Crew	OLGA JASON		231
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0	Fog in the morning	
Start Date	4/17/2015 8:41:31 AM	Precipitation	0		
End Date	4/17/2015 2:21:24 PM	Cloud Cover	95.00		

Plot ID	BAT-N-M1-235	1191

Location	Plot Notes
Latitude:45.886675,Longitude:-80.566859,Altitude:181.8,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:04/17/2015 08:43:40 EDT	GPS being difficult in high canopy cover (90%). Plot centriod taken as close to point on star as possible. No suitable bat cavity trees found in plot. Coniferous forest dominated by young Balsam Fir and White Cedar saplings in the sub-canopy and larger

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M1-236	1197

Location	Plot Notes
Latitude:45.886783,Longitude:-80.567866,Altitude:195.5,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:25:38 EDT	

Tree ID	1	1404

Species	Thuja occidentalis	Location
DBH (cm)	36	Latitude:45.886783,Longitude:-80.567857,Altitude:195.3,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:26:16 EDT
Height (m)	4	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1842
Cavity Height (m)	3	

Cavity Notes

Plot ID	BAT-N-M1-240	1212

Location	Plot Notes
Latitude:45.887059,Longitude:-80.568165,Altitude:188.2,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:39:19 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1416
Species	Populus tremuloides	Location
DBH (cm)	32	Latitude:45.887066,Longitude:-80.568157,Altitude:188.0,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:39:59 EDT
Height (m)	10	
Canopy Cover (%)	80	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1854
Cavity Height (m)	7	
Cavity Notes		

Plot ID	BAT-N-M1-237	1227
Location	Latitude:45.886862,Longitude:-80.568442,Altitude:184.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/17/2015 10:49:59 EDT	Plot Notes: No suitable tress. Young stand

Plot ID	BAT-N-M1-239	1236
Location	Latitude:45.887064,Longitude:-80.568785,Altitude:182.4,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:58:14 EDT	Plot Notes: No suitable trees

Plot ID	BAT-N-M1-242	1242
Location	Latitude:45.887368,Longitude:-80.569436,Altitude:187.4,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/17/2015 11:08:26 EDT	Plot Notes: No suitable trees.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M1-241	1248

Location	Plot Notes
Latitude:45.887318,Longitude:-80.569946,Altitude:187.7,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/17/2015 11:23:54 EDT	

Tree ID	1	1440

Species	Unknown	Location
DBH (cm)	28	Latitude:45.887316,Longitude:-80.569954,Altitude:187.5,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/17/2015 11:24:30 EDT
Height (m)	5	
Canopy Cover (%)	70	
# of Cavities	4	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details		1881
Cavity Height (m)	4	

Cavity Notes

Plot ID	BAT-N-M1-243	1251

Location	Plot Notes
Latitude:45.887513,Longitude:-80.570383,Altitude:187.3,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/17/2015 11:38:39 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1455
Species	Unknown	Location	
DBH (cm)	35	Latitude:45.887458,Longitude:-80.570337,Altitude:187.2,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/17/2015 11:40:31 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1893
Cavity Height (m)	1		
Cavity Notes			
Tree ID	2		1458
Species	Unknown	Location	
DBH (cm)	35	Latitude:45.887416,Longitude:-80.570234,Altitude:188.4,Speed:0.10288889,Accuracy:1.5,Provider:gps,Time:04/17/2015 11:43:40 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1896
Cavity Height (m)	2		
Cavity Notes			
Plot ID	BAT-N-M1-244		1263

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.887589,Longitude:-80.571014,Altitude:186.7,Speed:0.0051444443,Accuracy:2.0,Provider:gps,Time:04/17/2015 12:16:59 EDT	

Tree ID	1	1467

Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.887588,Longitude:-80.57101,Altitude:187.2,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/17/2015 12:17:27 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1908

Cavity Height (m)	5
Cavity Notes	

Tree ID	2	1473

Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.887593,Longitude:-80.570961,Altitude:187.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:21:04 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	1914

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	

Plot ID	BAT-N-M1-245	1278

Location	Plot Notes
Latitude:45.887784,Longitude:-80.57191,Altitude:179.6,Speed:0.030866666,Accuracy:2.7,Provider:gps,Time:04/17/2015 02:04:53 EDT	There is a cut ATV trail running through site

Tree ID	1	1482

Species	Betula papyrifera	Location
DBH (cm)	29	Latitude:45.887567,Longitude:-80.571854,Altitude:189.7,Speed:0.020577777,Accuracy:2.4,Provider:gps,Time:04/17/2015 12:44:19 EDT
Height (m)	3	
Canopy Cover (%)	70	
# of Cavities	5	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1920

Cavity Height (m)	1
Cavity Notes	Several cavities in snag

Cavity Details	1926

Cavity Height (m)	1
Cavity Notes	More cavities on other side

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1488
Species	Populus tremuloides	Location	
DBH (cm)	35	Latitude:45.887682,Longitude:-80.572258,Altitude:184.6,Speed:0.11832222,Accuracy:3.0,Provider:gps,Time:04/17/2015 12:54:32 EDT	
Height (m)	10		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	Y		

Cavity Details		1935
Cavity Height (m)	5	
Cavity Notes	Small opening in bark; appears to be deep.	

Cavity Details		1938
Cavity Height (m)	8	
Cavity Notes	Hole in tree notch	

Tree ID	3		1491
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.887779,Longitude:-80.572325,Altitude:186.7,Speed:0.10288889,Accuracy:3.0,Provider:gps,Time:04/17/2015 12:58:44 EDT	
Height (m)	12		
Canopy Cover (%)	70		
# of Cavities	7	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details		1941

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Several large woodpecker holes on tree

Tree ID	4		1494
Species	Abies balsamea	Location	
DBH (cm)	34	Latitude:45.887777,Longitude:-80.572331,Altitude:185.1,Speed:0.020577777,Accuracy:2.7,Provider:gps,Time:04/17/2015 01:03:42 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1944

Cavity Height (m)	6
Cavity Notes	Possible hole deep enough where trunk bends at notch

Tree ID	5		1497
Species	Pinus resinosa	Location	
DBH (cm)	32	Latitude:45.888035,Longitude:-80.572082,Altitude:181.1,Speed:0.21092223,Accuracy:2.7,Provider:gps,Time:04/17/2015 01:21:13 EDT	
Height (m)	12		
Canopy Cover (%)	70		
# of Cavities	5	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			1947

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Many cavities up along tree starting from 1 m high

Tree ID	6		1503
Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.887851,Longitude:-80.57165,Altitude:180.1,Speed:0.066877775,Accuracy:2.7,Provider:gps,Time:04/17/2015 01:34:32 EDT	
Height (m)	20		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1956

Cavity Height (m)	12
Cavity Notes	Cavity underneath the branch sticking out

Tree ID	7		1506
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.887854,Longitude:-80.57156,Altitude:181.4,Speed:0.03601111,Accuracy:2.25,Provider:gps,Time:04/17/2015 01:38:32 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree	Tree beside cut ATV trail	
Suitable location for audio monitor?	N		
Cavity Details			1959

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Deep cavity inside trunk

Cavity Details 1965

Cavity Height (m)	4
Cavity Notes	Deep cavities in trunk higher up tree

Tree ID	8		1512
Species	Thuja occidentalis	Location	
DBH (cm)	29	Latitude:45.887791,Longitude:-80.571925,Altitude:180.0,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/17/2015 02:02:30 EDT	
Height (m)	18		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 1968

Cavity Height (m)	2
Cavity Notes	

Plot ID	BAT-N-M1-247		1293
Location	Latitude:45.887956,Longitude:-80.571819,Altitude:177.6,Speed:0.030866666,Accuracy:2.25,Provider:gps,Time:04/17/2015 01:31:12 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1515
Species	Populus tremuloides	Location	
DBH (cm)	25	Latitude:45.887878,Longitude:-80.571499,Altitude:181.2,Speed:0.015433333,Accuracy:2.4,Provider:gps,Time:04/17/2015 01:42:25 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1971
Cavity Height (m)	7	
Cavity Notes		
Loose bark		

Tree ID	2		1518
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.887957,Longitude:-80.571875,Altitude:183.7,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:04/17/2015 01:54:13 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		1974
Cavity Height (m)	7	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		1521
Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.887861,Longitude:-80.571982,Altitude:180.4,Speed:0.35496667,Accuracy:2.4,Provider:gps,Time:04/17/2015 02:00:28 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	1977
Cavity Height (m)	1
Cavity Notes	Loose bark

Map Number	N-M4	Field Crew	TOM SHORNEY, SARAH RICHER, MATT HERBERT	234

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	1		
Start Date	4/17/2015 9:43:08 AM	Precipitation	0		
End Date	4/17/2015 3:06:47 PM	Cloud Cover	0.00		

Plot ID	BAT-M -M4 -151		1203
Location	Latitude:45.87394,Longitude:-80.589696,Altitude:195.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:44:40 EDT	Plot Notes	

Plot ID	BAT-N-M4-152		1206
Location	Latitude:45.873962,Longitude:-80.588944,Altitude:197.5,Speed:0.31381112,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:54:55 EDT	Plot Notes	Several feeding cavities but trees are too small

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M4-155	1209

Location	Plot Notes
Latitude:45.873987,Longitude:-80.588166,Altitude:192.9,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:07:35 EDT	Very few large trees (which are healthy)

Plot ID	BAT-N-M4-156	1215

Location	Plot Notes
Latitude:45.873985,Longitude:-80.587581,Altitude:193.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:48:15 EDT	

Plot ID	BAT-N-M4-154	1218

Location	Plot Notes
Latitude:45.873996,Longitude:-80.586865,Altitude:189.0,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:56:07 EDT	

Plot ID	BAT-N-M4-158	1221

Location	Plot Notes
Latitude:45.874079,Longitude:-80.5861,Altitude:190.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/17/2015 11:02:41 EDT	

Plot ID	BAT-N-M4-161	1224

Location	Plot Notes
Latitude:45.874186,Longitude:-80.58542,Altitude:189.0,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:09:53 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1419
Species	Largetooth aspen	Location	
DBH (cm)	41	Latitude:45.874187,Longitude:-80.585418,Altitude:188.9,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:10:27 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1857
Cavity Height (m)	4		
Cavity Notes	Cavity at branch scar which provides access to central cavity		
Tree ID	2		1425
Species	Populus tremuloides	Location	
DBH (cm)	32	Latitude:45.87415,Longitude:-80.585383,Altitude:190.4,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:14:22 EDT	
Height (m)	20		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1863
Cavity Height (m)	3		
Cavity Notes	Large crack which provides access to inner. Space		
Plot ID	BAT-N-M4-153		1230

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.873932,Longitude:-80.585352,Altitude:192.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:23:41 EDT	Within vernal pool

Plot ID: BAT-N-M4-162 — 1245

Location	Plot Notes
Latitude:45.874245,Longitude:-80.584968,Altitude:195.4,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:04/17/2015 11:55:06 EDT	

Tree ID: 1 — 1437

Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.874246,Longitude:-80.584968,Altitude:195.4,Speed:0.24693333,Accuracy:2.4,Provider:gps,Time:04/17/2015 11:55:59 EDT	
Height (m)	5		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 1875

Cavity Height (m): 5

Cavity Notes

Downed tree with cavity to overnight in. Not ideal

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1446
Species	betula alleghaniensis	Location	
DBH (cm)	28	Latitude:45.874307,Longitude:-80.58493,Altitude:197.7,Speed:0.2212111,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:02:27 EDT	
Height (m)	12		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1884
Cavity Height (m)	4		
Cavity Notes	Tree is 50 cm outside of plot. Cavity is long and vertical Willow h access to central cavity		
Tree ID	3		1449
Species	Populus grandidentata	Location	
DBH (cm)	45	Latitude:45.874322,Longitude:-80.58493,Altitude:196.9,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/17/2015 12:05:03 EDT	
Height (m)	20		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1887
Cavity Height (m)	3		
Cavity Notes	Long vertical. Crack which provides access to central cavity		
Plot ID	BAT-N-M4-166		1254

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.874368,Longitude:-80.584494,Altitude:192.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:14:59 EDT	

Plot ID: BAT-N-M4-159 — 1257

Location	Plot Notes
Latitude:45.874055,Longitude:-80.584757,Altitude:193.7,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:25:48 EDT	

Tree ID: 1 — 1461

Species	Pinus resinosa	Location	
DBH (cm)	79	Latitude:45.873949,Longitude:-80.584753,Altitude:196.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:28:24 EDT	
Height (m)	22		
Canopy Cover (%)	55		
# of Cavities	2	Notes	
Decay Class	4 Recently dead tree	Large amounts of peeling bark around tree.	
Suitable location for audio monitor?	N		

Cavity Details — 1899

Cavity Height (m): 8

Cavity Notes: Large vertical crack which provides access into central cavity

Cavity Details — 1902

Cavity Height (m): 3

Cavity Notes: Access to inner cavity through rotted wood.

Map Number: N-M4 — Field Crew: AMI ARSENAULT ADAM MCCLELLAND — 237

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Sunny warm day	
Start Date	4/17/2015 10:10:57 AM	Precipitation	0		
End Date	4/17/2015 2:24:26 PM	Cloud Cover	0.00		

Plot ID	BAT-N-M4-130	1266

Location	Plot Notes
Latitude:45.873321,Longitude:-80.591938,Altitude:187.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/17/2015 10:13:55 EDT	Centroid on rock barren. Jack PinE spruce poplar maple White pine birch. No cavity trees found in plot. All trees under 25cm dbh.

Plot ID	BAT-N-M4-140	1272

Location	Plot Notes
Latitude:45.873559,Longitude:-80.591867,Altitude:198.0,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:21:02 EDT	Nearby rock barren. Slightly wet area. Birch fir spruce white pine red maple.

Tree ID	1	1479

Species	Populus species	Location	
DBH (cm)	28	Latitude:45.873592,Longitude:-80.591798,Altitude:195.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/17/2015 10:24:28 EDT	
Height (m)	13		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Dead poplar species. Some holes in tree trunk that could be used for bats. Some crevices as well.	
Suitable location for audio monitor?	N		

Cavity Details		1923
Cavity Height (m)	12	
Cavity Notes		
Small Woodpecker hole		

Cavity Details		1932

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Small cavity hole

Plot ID	BAT-N-M4-138	1287

Location	Plot Notes
Latitude:45.87349,Longitude:-80.591473,Altitude:186.2,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:35:51 EDT	Wet low lying areaRed maple, white birch, jack pine, balsam firAll trees below 25 cm dbh

Plot ID	BAT-N-M4-143	1290

Location	Plot Notes
Latitude:45.873721,Longitude:-80.590998,Altitude:195.2,Speed:0.1389,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:47:52 EDT	Balsam fir, white birch, poplar, red maple

Tree ID	1	1500

Species	Populus tremuloides	Location
DBH (cm)	31	Latitude:45.873668,Longitude:-80.591019,Altitude:195.6,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:52:16 EDT
Height (m)	12	
Canopy Cover (%)	75	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	Some bark missing
Suitable location for audio monitor?	N	

Cavity Details	1950

Cavity Height (m)	8
Cavity Notes	Cluster of small holes

Cavity Details	1953

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	Cluster of holes near top of tree

Tree ID	2		1509
Species	Betula papyrifera	Location	
DBH (cm)	38	Latitude:45.873599,Longitude:-80.591061,Altitude:193.5,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:04:40 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details 1962

Cavity Height (m)	10
Cavity Notes	Hole near top of tree

Plot ID	BAT-N-M4-142		1296
Location		Plot Notes	
Latitude:45.873638,Longitude:-80.590429,Altitude:190.1,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:09:48 EDT		Balsam fir, white birch, white birch, trembling aspenEdge of rock barren, low wet area in plotNo suitable trees above 25 cm dbh	

Plot ID	BAT-N-M4-144		1299
Location		Plot Notes	
Latitude:45.873729,Longitude:-80.589895,Altitude:194.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:21:56 EDT		Red maple, balsam fir, white pine, jack pine, white birchLow wet area on edge of rock barrenNo suitable trees	

Plot ID	BAT-N-M4-146		1302

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.873821,Longitude:-80.589293,Altitude:191.9,Speed:0.0463,Accuracy:2.7,Provider:gps,Time:04/17/2015 11:32:04 EDT	White birch, balsam fir, red maple, spruce

Tree ID	1	1527
Species	Populus balsamifera	Location
DBH (cm)	31	Latitude:45.873843,Longitude:-80.589217,Altitude:191.8,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/17/2015 11:37:32 EDT
Height (m)	20	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		1980
Cavity Height (m)	10	
Cavity Notes	Vertical crack in tree	

Tree ID	2	1530
Species	Betula papyrifera	Location
DBH (cm)	31	Latitude:45.873764,Longitude:-80.58934,Altitude:195.4,Speed:0.12346666,Accuracy:3.0,Provider:gps,Time:04/17/2015 11:44:18 EDT
Height (m)	9	
Canopy Cover (%)	50	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		1986

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	
Peeling bark	

Cavity Details 1992

Cavity Height (m)	8
Cavity Notes	
Hole in trunk	

Plot ID	BAT-N-M4-147	1308

Location	Plot Notes
Latitude:45.873828,Longitude:-80.587245,Altitude:198.8,Speed:0.13375555,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:26:32 EDT	Edge of rock barren, wet area in plotJack pine, balsam fir, white birch, white pine, red oak, spruceNo suitable trees

Plot ID	BAT-N-M4-145	1311

Location	Plot Notes
Latitude:45.873787,Longitude:-80.58665,Altitude:195.5,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:39:30 EDT	Located on slope at edge of rock barren, low wet area in plotJack pine, white pine, red oak, black spruce

Tree ID	1	1542

Species	Pinus banksiana	Location	
DBH (cm)	26	Latitude:45.873751,Longitude:-80.586699,Altitude:196.4,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/17/2015 12:46:14 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree	Jack pine with two small holes	
Suitable location for audio monitor?	N		

Cavity Details 2001

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m) 8

Cavity Notes

Small hole from possible branch decay

Cavity Details 2004

Cavity Height (m) 8

Cavity Notes

Small hole from possible branch decay

Plot ID BAT-N-M4-149 1314

Location

Latitude:45.873848,Longitude:-80.586302,Altitude:199.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 01:03:17 EDT

Plot Notes

Centroid in middle of thick brush and wet soils. Spruce white pine birch jack pine. No cavity trees found in plot. Lots of trees less then 25cm dbh.

Plot ID BAT-N-M4-150 1317

Location

Latitude:45.873856,Longitude:-80.58577,Altitude:195.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/17/2015 01:09:45 EDT

Plot Notes

Centroid in wet area. Lots of white pine and some spruce and red maple. No bat cavity trees in plot. Healthy large pines.

Map Number N-M1 Field Crew OLGA HROPACH JASON 240

Feature ID

Study Area WEC

Project Number 60341251

Air Temp. (degC) 15.00

Weather Notes

Tablet AECOM6

Wind Speed (beaufort) 0

Start Date 4/17/2015 10:30:39 AM

Precipitation 0

End Date 4/17/2015 2:23:09 PM

Cloud Cover 0.00

Plot ID BAT-N-M1-238 1305

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.886884,Longitude:-80.567301,Altitude:193.6,Speed:0.015433333,Accuracy:2.0,Provider:gps,Time:04/17/2015 09:41:38 EDT	

Tree ID	1		1524
Species	Thuja occidentalus	Location	
DBH (cm)	39	Latitude:45.886883,Longitude:-80.567317,Altitude:194.2,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:37:32 EDT	
Height (m)	22		
Canopy Cover (%)	90		
# of Cavities	11	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			1983
Cavity Height (m)	3		
Cavity Notes			

Tree ID	2		1533
Species	Thuja occidentalis	Location	
DBH (cm)	42	Latitude:45.886884,Longitude:-80.567301,Altitude:193.6,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:04/17/2015 09:42:04 EDT	
Height (m)	23		
Canopy Cover (%)	90		
# of Cavities	12	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			1989

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	

Tree ID	3	1536

Species	Thuja occidentalis	Location
DBH (cm)	37	Latitude:45.886923,Longitude:-80.567263,Altitude:195.9,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/17/2015 09:46:20 EDT
Height (m)	20	
Canopy Cover (%)	90	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details	1995

Cavity Height (m)	8
Cavity Notes	

Tree ID	4	1539

Species	Thuja occidentalis	Location
DBH (cm)	44	Latitude:45.886918,Longitude:-80.567255,Altitude:196.9,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:49:08 EDT
Height (m)	20	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	1998

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	

Tree ID	5		1545
Species	Thuja occidentalis	Location	
DBH (cm)	35	Latitude:45.886853,Longitude:-80.567289,Altitude:196.4,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/17/2015 09:52:35 EDT	
Height (m)	22		
Canopy Cover (%)	95		
# of Cavities	7	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2007

Cavity Height (m)	3
Cavity Notes	

Tree ID	6		1548
Species	Thuja occidentalis	Location	
DBH (cm)	43	Latitude:45.886832,Longitude:-80.567199,Altitude:198.5,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/17/2015 09:57:45 EDT	
Height (m)	19		
Canopy Cover (%)	90		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2010

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	

Tree ID	7		1551
Species	Thuja occidentalis	Location	
DBH (cm)	29	Latitude:45.886839,Longitude:-80.567151,Altitude:198.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/17/2015 10:02:30 EDT	
Height (m)	19		
Canopy Cover (%)	90		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 2013

Cavity Height (m)	3
Cavity Notes	

Map Number	N-M4	Field Crew	NATALIA SIMONOVA AMY INGRISELLI		243
Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	0		
Start Date	4/17/2015 9:24:57 AM	Precipitation	0		
End Date	4/17/2015 2:48:15 PM	Cloud Cover	85.00		

Plot ID	BAT-N-M4-165		1320
Location		Plot Notes	
Latitude:45.87435,Longitude:-80.584067,Altitude:191.0,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/17/2015 09:26:17 EDT		Previously disturbed. Trail and shrub (Rubus sp) growth. No trees of suitable dbh or cavities.	
Plot ID	BAT-N-M4-168		1323

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.874612,Longitude:-80.583913,Altitude:181.3,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/17/2015 09:47:16 EDT	Populus tremuloides dominated on the plot.subcanopy Corylus so.

Tree ID	1	1554

Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.874661,Longitude:-80.583654,Altitude:185.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/17/2015 09:50:58 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	*	
Suitable location for audio monitor?	Y		

Cavity Details		2016
Cavity Height (m)	8	
Cavity Notes		
Cavity from broken branch		

Plot ID	BAT-N-M4-169	1326

Location	Plot Notes
Latitude:45.874886,Longitude:-80.583881,Altitude:178.5,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:14:28 EDT	Forest community with Populus tremuloides and coniferous species

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1557
Species	Populus tremuloides	Location	
DBH (cm)	45	Latitude:45.874895,Longitude:-80.584013,Altitude:183.0,Speed:0.45785555,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:16:39 EDT	
Height (m)	12		
Canopy Cover (%)	55		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2019
Cavity Height (m)	4
Cavity Notes	Cavity from louse pillows bark

Cavity Details	2022
Cavity Height (m)	5
Cavity Notes	Cavity from broken branch

Cavity Details	2025
Cavity Height (m)	8
Cavity Notes	Cavity from broken bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1560
Species	Populus tremuloides	Location	
DBH (cm)	42	Latitude:45.874831,Longitude:-80.584177,Altitude:186.8,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:27:52 EDT	
Height (m)	22		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2028
Cavity Height (m)	2		
Cavity Notes	Cavity from broken trunk deep		
Cavity Details			2031
Cavity Height (m)	7		
Cavity Notes	Cavity from broken bark		
Tree ID	3		1563
Species	Populus tremuloides	Location	
DBH (cm)	31	Latitude:45.874796,Longitude:-80.58404,Altitude:184.4,Speed:0.15947777,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:33:46 EDT	
Height (m)	22		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2034

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Cavity from crack bark

Cavity Details 2037

Cavity Height (m)	8
Cavity Notes	Cavity from crack bark

Tree ID	4		1566
Species	Populus tremuloides	Location	
DBH (cm)	36	Latitude:45.874774,Longitude:-80.584023,Altitude:181.4,Speed:0.2880889,Accuracy:1.8,Provider:gps,Time:04/17/2015 10:38:59 EDT	
Height (m)	22		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		

Cavity Details 2040

Cavity Height (m)	3
Cavity Notes	Cavity from broken bark

Cavity Details 2043

Cavity Height (m)	4
Cavity Notes	Cavity from broken bark deep

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5	1569
Species	Populus tremuloides	Location
DBH (cm)	47	Latitude:45.874737,Longitude:-80.583982,Altitude:179.7,Speed:0.23664445,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:42:50 EDT
Height (m)	25	
Canopy Cover (%)	75	
# of Cavities	3	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details	2046
Cavity Height (m)	3
Cavity Notes	Cavity from big broken trunk and bark

Cavity Details	2049
Cavity Height (m)	7
Cavity Notes	Cavity from broken trunk deep

Cavity Details	2052
Cavity Height (m)	8
Cavity Notes	Cavity from crack bark

Plot ID	BAT-N-M4-170	1329
Location	Latitude:45.874978,Longitude:-80.583544,Altitude:177.0,Speed:0.16462222,Accuracy:2.1,Provider:gps,Time:04/17/2015 10:58:35 EDT	Plot Notes: Plot with large trees but little to no suitable cavities

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M4-172	1332

Location	Plot Notes
Latitude:45.875256,Longitude:-80.58339,Altitude:182.9,Speed:0.1852,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:13:37 EDT	Trees plot with Populus tremuloides with Betula papyrifera

Tree ID	1	1572

Species	Populus tremuloides	Location	
DBH (cm)	42	Latitude:45.875231,Longitude:-80.583395,Altitude:184.0,Speed:0.38068888,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:14:09 EDT	
Height (m)	12		
Canopy Cover (%)	65		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2055
Cavity Height (m)	8	
Cavity Notes	Old cavity from Woodpecker	

Cavity Details		2058
Cavity Height (m)	4	
Cavity Notes	Cavity from broken bark	

Cavity Details		2061
Cavity Height (m)	3	
Cavity Notes	*	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1575
Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.875325,Longitude:-80.583469,Altitude:188.4,Speed:0.36525556,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:24:04 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2064
Cavity Height (m)	4
Cavity Notes	Cavity from broken bark

Cavity Details	2067
Cavity Height (m)	4
Cavity Notes	Cavity from crack bark

Tree ID	3		1578
Species	Populus tremuloides	Location	
DBH (cm)	37	Latitude:45.875272,Longitude:-80.583497,Altitude:185.8,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:29:56 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		

Cavity Details	2070

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	15
Cavity Notes	Cavity from broken branch

Plot ID	BAT-N-M4-173	1335

Location	Plot Notes
Latitude:45.875389,Longitude:-80.583574,Altitude:180.9,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:46:49 EDT	Community with Acer rubrum and Quercus macrocarpa

Tree ID	1	1581

Species	Acer rubrum	Location
DBH (cm)	27	Latitude:45.875407,Longitude:-80.583518,Altitude:186.4,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/17/2015 11:49:22 EDT
Height (m)	17	
Canopy Cover (%)	55	
# of Cavities		Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	2073

Cavity Height (m)	9
Cavity Notes	Cavity from broken branch and lose bark

Cavity Details	2076

Cavity Height (m)	4
Cavity Notes	Cavity from lifting bark

Plot ID	BAT-N-M3-183	1338

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.877946,Longitude:-80.581415,Altitude:198.2,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/17/2015 12:58:08 EDT	Bedrock with community of Pinus strobus and Pinus banksiana

Tree ID	1		1584
Species	Pinus strobus	Location	
DBH (cm)	31	Latitude:45.877866,Longitude:-80.581492,Altitude:196.7,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:04/17/2015 12:40:52 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2079
Cavity Height (m)	2
Cavity Notes	Old Woodpecker hole cavity

Cavity Details	2082
Cavity Height (m)	4
Cavity Notes	Old Woodpecker cavity

Cavity Details	2085
Cavity Height (m)	7
Cavity Notes	*

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1587
Species	Pinus strobus	Location	
DBH (cm)	27	Latitude:45.877881,Longitude:-80.581243,Altitude:198.2,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/17/2015 12:46:54 EDT	
Height (m)	6		
Canopy Cover (%)	85		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2088
Cavity Height (m)	2		
Cavity Notes	Cavity from crack trunk and bark		
Cavity Details			2091
Cavity Height (m)	3		
Cavity Notes	Cavity from lifting bark		
Tree ID	3		1590
Species	Pinus strobus	Location	
DBH (cm)	28	Latitude:45.877934,Longitude:-80.581262,Altitude:197.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 12:51:51 EDT	
Height (m)	22		
Canopy Cover (%)	75		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2094

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	
Cavity from lifting bsrk	

Cavity Details 2097

Cavity Height (m)	6
Cavity Notes	
*	

Cavity Details 2100

Cavity Height (m)	12
Cavity Notes	
*	

Tree ID	4		1593
Species	Pinus strobus	Location	
DBH (cm)	31	Latitude:45.878118,Longitude:-80.581417,Altitude:200.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/17/2015 01:02:02 EDT	
Height (m)	6		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details 2103

Cavity Height (m)	1
Cavity Notes	
Cavity train lose bark	

Plot ID	BAT-N-M3-185	1341

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.879188,Longitude:-80.581677,Altitude:190.3,Speed:0.01028889,Accuracy:2.4,Provider:gps,Time:04/17/2015 01:14:59 EDT	Pinus strobus and Pinus banksiana community

Tree ID	1	1596

Species	Pinus strobus	Location	
DBH (cm)	27	Latitude:45.879292,Longitude:-80.581692,Altitude:190.3,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/17/2015 01:17:44 EDT	
Height (m)	17		
Canopy Cover (%)	55		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2106
Cavity Height (m)	2	
Cavity Notes		
Cavity form lifted bark		

Plot ID	BAT-N-M3-188	1344

Location	Plot Notes
Latitude:45.879431,Longitude:-80.581544,Altitude:190.2,Speed:0.10288889,Accuracy:2.4,Provider:gps,Time:04/17/2015 01:24:30 EDT	Treed plot between bedrock with Pinus strobus community

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1599
Species	Pinus strobus	Location
DBH (cm)	27	Latitude:45.879426,Longitude:-80.581546,Altitude:190.4,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:04/17/2015 01:27:04 EDT
Height (m)	17	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class		
Suitable location for audio monitor?	N	

Cavity Details 2109

Cavity Height (m)	3
Cavity Notes	Cavity from lifting bark

Map Number	N-M10	Field Crew	AMI AND KACEY	246

Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes
Tablet	AECOM3	Wind Speed (beaufort)	2	Rain all day
Start Date	4/20/2015 7:23:53 AM	Precipitation	1	
End Date	4/20/2015 2:23:55 PM	Cloud Cover	100.00	

Plot ID	BAT-N-M10-80	1347
Location	Latitude:45.868868,Longitude:-80.614391,Altitude:191.5,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:03:44 EDT	Plot Notes: Young Spruce stand most trees less than 25cm dhh except one pine with no cavities. No cavity trees here.

Plot ID	BAT-N-M10-82	1350
Location	Latitude:45.86894,Longitude:-80.610364,Altitude:188.6,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/20/2015 11:23:33 EDT	Plot Notes: Spruce white pine fir. Lots of trees less than 25cm. No bat cavity trees in plot.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M10-85		1353
Location		Plot Notes	
Latitude:45.868941,Longitude:-80.609711,Altitude:191.7,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:32:11 EDT		Spruce poplar for white pine. No bat cavity trees in plot.	

Plot ID	BAT-N-M10-83		1356
Location		Plot Notes	
Latitude:45.868933,Longitude:-80.609344,Altitude:197.8,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:35:39 EDT		Most trees smaller then 25cm dbh. Also on rock barren with no trees. No cavity trees in plot	

Plot ID	BAT-N-M10-81		1359
Location		Plot Notes	
Latitude:45.868953,Longitude:-80.608721,Altitude:191.4,Speed:0.041155554,Accuracy:2.0,Provider:gps,Time:04/20/2015 11:41:06 EDT		Low long area hext to rock barrens. Spruce and pine. No cavity the eee in plot	

Plot ID	BAT-N-M10-86		1362
Location		Plot Notes	
Latitude:45.868944,Longitude:-80.607167,Altitude:185.0,Speed:0.06173333,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:09:55 EDT		Spruce fir maple. Many trees under 25cm dbh.	

Plot ID	BAT-N-M10-87		1365
Location		Plot Notes	
Latitude:45.868975,Longitude:-80.606425,Altitude:179.1,Speed:0.12861112,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:17:05 EDT		Ponded water. No cavity trees plot.	

Map Number	S-M13	Field Crew	KRISTAN WASHBURN AND TOM SHORNEY	249

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes
Tablet	AECOM7	Wind Speed (beaufort)	5	
Start Date	4/20/2015 9:07:40 AM	Precipitation	2	
End Date	4/20/2015 2:49:34 PM	Cloud Cover	100.00	

Plot ID	BAT-S-M13-368	1368

Location	Plot Notes
Latitude:45.844865,Longitude:-80.629123,Altitude:182.9,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:41:33 EDT	

Plot ID	BAT-S-M3-409	1371

Location	Plot Notes
Latitude:45.847331,Longitude:-80.624773,Altitude:192.2,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:04/20/2015 11:54:52 EDT	

Plot ID	BAT-S-M13-389	1374

Location	Plot Notes
Latitude:45.84665,Longitude:-80.624839,Altitude:190.4,Speed:0.21606667,Accuracy:1.75,Provider:gps,Time:04/20/2015 12:08:30 EDT	

Plot ID	BAT-S-M13-398	1377

Location	Plot Notes
Latitude:45.84704,Longitude:-80.625304,Altitude:189.0,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/20/2015 12:15:02 EDT	

Plot ID	BAT-S-M13-406	1380

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847042,Longitude:-80.6253,Altitude:189.3,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/20/2015 12:15:14 EDT	

Map Number	N-M11	Field Crew	JOHANNA PERZ, NATALIYA SIMONOVA		255
Feature ID	BAT-N-M111-99	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM5	Wind Speed (beaufort)	4		
Start Date	4/20/2015 11:48:17 AM	Precipitation	1		
End Date	4/20/2015 3:35:16 PM	Cloud Cover	100.00		
Plot ID	BAT-N-M11-99				1416

Location	Plot Notes
Latitude:45.870441,Longitude:-80.624954,Altitude:186.9,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:57:18 EDT	Bedrock outcrop with interÃ?pered wet bog, jack pine, black spriuce, blueberry, sphagnum

Plot ID	BAT-N-M11-78	1419

Location	Plot Notes
Latitude:45.868717,Longitude:-80.615689,Altitude:192.9,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/20/2015 12:40:17 EDT	Community with red pine, black spruce, junipers, balsam fir, centroid on slope of rock outcrop

Plot ID	BAT-N-M11-77	1422

Location	Plot Notes
Latitude:45.868731,Longitude:-80.615309,Altitude:194.7,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/20/2015 12:47:03 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	1614
Species	Betula papyifera	Location
DBH (cm)	26	Latitude:45.868717,Longitude:-80.615346,Altitude:192.2,Speed:0.15433334,Accuracy:1.5,Provider:gps,Time:04/20/2015 12:50:41 EDT
Height (m)	11	
Canopy Cover (%)	75	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2124
Cavity Height (m)	5	
Cavity Notes	Central cavity	

Cavity Details		2127
Cavity Height (m)	4	
Cavity Notes	Peeling bark throughout tree	

Plot ID	BAT-N-M11-84	1425
Location	Latitude:45.868986,Longitude:-80.615115,Altitude:191.8,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/20/2015 12:56:06 EDT	Plot Notes: Sphagnum treed bog, small conifers (black spruce dominates)

Plot ID	BAT-N-M11-79	1428
Location	Latitude:45.868848,Longitude:-80.614797,Altitude:189.3,Speed:0.32924443,Accuracy:1.75,Provider:gps,Time:04/20/2015 01:00:33 EDT	Plot Notes: Two jack pine with cavities but dbh < 25

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	N-M11	Field Crew	AMY INGRISELLI ADAM MCCLELLAND		258
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4	Rain on and off	
Start Date	4/20/2015 10:57:34 AM	Precipitation	2		
End Date	4/20/2015 2:00:37 PM	Cloud Cover	100.00		
Plot ID	BAT-N-M10-92				1431

Location	Plot Notes
Latitude:45.869169,Longitude:-80.609966,Altitude:193.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:00:20 EDT	Moist, conifer dominated

Tree ID	1		1617
Species	Populus tremuloides	Location	
DBH (cm)	32	Latitude:45.869124,Longitude:-80.610002,Altitude:194.7,Speed:0.07716667,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:05:36 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2130
Cavity Height (m)	12
Cavity Notes	Decayed old branch location

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1620
Species	Acer rubrum	Location
DBH (cm)	40	Latitude:45.869093,Longitude:-80.610007,Altitude:196.6,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/20/2015 11:09:02 EDT
Height (m)	18	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details		2133
Cavity Height (m)	2	
Cavity Notes	Decayed bold branch hole	

Cavity Details		2136
Cavity Height (m)	17	
Cavity Notes	Loose bark at base of dead branch	

Plot ID	BAT-N-M10-93	1434
Location	Latitude:45.8691,Longitude:-80.609013,Altitude:187.9,Speed:0.025722222,Accuracy:2.0,Provider:gps,Time:04/20/2015 11:29:29 EDT	Plot Notes: Edge of rock barrenWhite birch, white pine, balsam fir, red maple

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1623
Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.869132,Longitude:-80.608997,Altitude:186.0,Speed:0.05658889,Accuracy:2.4,Provider:gps,Time:04/20/2015 11:35:55 EDT	
Height (m)	22		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2139
Cavity Height (m)	15		
Cavity Notes	Small hole in dead branch		
Tree ID	2		1626
Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.869198,Longitude:-80.60907,Altitude:189.9,Speed:0.1389,Accuracy:2.4,Provider:gps,Time:04/20/2015 11:37:30 EDT	
Height (m)	9		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2142
Cavity Height (m)	5		
Cavity Notes	Knot in tree		
Plot ID	BAT-N-M10-90		1437

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.869005,Longitude:-80.608536,Altitude:213.3,Speed:0.5350222,Accuracy:3.0,Provider:gps,Time:04/20/2015 12:07:54 EDT	Edge of rock barren, base of slopeRed maple, balsam fir, poplar, white birch

Tree ID	1	1629

Species	Acer rubrum	Location	
DBH (cm)	31	Latitude:45.869037,Longitude:-80.608462,Altitude:212.9,Speed:0.3704,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:10:26 EDT	
Height (m)	17		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2145

Cavity Height (m)	2
Cavity Notes	
30 cm opening	

Cavity Details	2148

Cavity Height (m)	5
Cavity Notes	
Small knot in tree	

Plot ID	BAT-N-M10-94	1440

Location	Plot Notes
Latitude:45.86907,Longitude:-80.607789,Altitude:181.0,Speed:0.03601111,Accuracy:2.7,Provider:gps,Time:	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1632
Species	Betula papyrifera	
DBH (cm)	27	
Height (m)	20	
Canopy Cover (%)	85	
# of Cavities	1	
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.86915,Longitude:-80.607418,Altitude:176.0,Speed:0.23664445,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:28:45 EDT	
Notes		

Cavity Details		2151
Cavity Height (m)	15	
Cavity Notes	Decaying crack and hole in trunk	

Plot ID	BAT-N-M10-88	1443
Location	Latitude:45.869034,Longitude:-80.607851,Altitude:178.5,Speed:0.10803334,Accuracy:2.4,Provider:gps,Time:04/20/2015 12:40:44 EDT	
Plot Notes		

Plot ID	BAT-N-M10-95	1446
Location	Latitude:45.869587,Longitude:-80.604492,Altitude:181.2,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:04/20/2015 01:49:56 EDT	
Plot Notes	Low wet area surrounded by rock barrensWhite pine, white cedar, poplar, balsam fir, red maple	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1635
Species	Pinus strobus	Location	
DBH (cm)	47	Latitude:45.869662,Longitude:-80.604277,Altitude:179.1,Speed:0.2778,Accuracy:2.4,Provider:gps,Time:04/20/2015 01:53:32 EDT	
Height (m)	16		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2154
Cavity Height (m)	6
Cavity Notes	Cluster of small holes, peeling bark

Map Number	S-M26	Field Crew	NATALIA SIMONOVA, JOHANNA PERZ		264
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1	Chance of rain today	
Start Date	4/21/2015 8:05:45 AM	Precipitation	0		
End Date	4/21/2015 2:50:29 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M26-352		1476
Location		Plot Notes	
Latitude:45.84248,Longitude:-80.61091,Altitude:180.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/21/2015 09:52:57 EDT		Street plot between bedrock community with Pinus banksiana Pinus strobus and Populus tremuloides	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1647
Species	Pinus banksiana	Location
DBH (cm)	38	Latitude:45.84248,Longitude:-80.61091,Altitude:180.3,Speed:0.08231111,Accuracy:2.4,Provider:gps,Time:04/21/2015 09:53:08 EDT
Height (m)	15	
Canopy Cover (%)	65	
# of Cavities	2	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2163
Cavity Height (m)	6	
Cavity Notes	Cavity from lifting bark	

Cavity Details		2166
Cavity Height (m)	4	
Cavity Notes	Cavity from broken branch	

Tree ID	2	1650
Species	Populus tremuloides	Location
DBH (cm)	26	Latitude:45.842428,Longitude:-80.610831,Altitude:181.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:00:24 EDT
Height (m)	17	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		2169

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Cavity from cracked bark

Plot ID	BAT-S-M26-359	1479

Location	Plot Notes
Latitude:45.843098,Longitude:-80.610942,Altitude:187.6,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:11:13 EDT	Community with Populus tremuloides and Betula papyrifera . Many trees with good cavities but some are outside plot boundaries (two Populus tremuloides with high up cavities in particular)

Tree ID	1	1653

Species	Populus tremuloides	Location
DBH (cm)	36	Latitude:45.843155,Longitude:-80.611,Altitude:188.4,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:14:11 EDT
Height (m)	15	
Canopy Cover (%)	45	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	2172

Cavity Height (m)	12
Cavity Notes	Hole Cavity from old Woodpecker activity

Cavity Details	2175

Cavity Height (m)	10
Cavity Notes	Cavity from lifting bark and hole cavity from Woodpecker

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1656
Species	Betula papyrifera	Location	
DBH (cm)	32	Latitude:45.843187,Longitude:-80.611046,Altitude:188.8,Speed:0.40126666,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:19:18 EDT	
Height (m)	16		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2178
Cavity Height (m)	2	
Cavity Notes	Cavity from crack bark	

Cavity Details		2181
Cavity Height (m)	14	
Cavity Notes	Cavity from Woodpecker activity deep	

Cavity Details		2184
Cavity Height (m)	15	
Cavity Notes	Whole cavity from crack bark	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	1659
Species	Betula papyrifera	Location
DBH (cm)	39	Latitude:45.843143,Longitude:-80.611141,Altitude:193.9,Speed:0.25722224,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:26:19 EDT
Height (m)	18	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		2187
Cavity Height (m)	5	
Cavity Notes	Cavity from cracked bark	

Cavity Details		2190
Cavity Height (m)	8	
Cavity Notes	Cavity from cracked bark	

Plot ID	BAT-S-M26-360	1482
Location	Latitude:45.843121,Longitude:-80.609682,Altitude:189.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:49:29 EDT	Plot Notes: Swamp area with Betula papyrifera

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1662
Species	Pinus strobus	Location	
DBH (cm)	27		
Height (m)	15		
Canopy Cover (%)	35		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2193
Cavity Height (m)	2		
Cavity Notes	Cavity from cracked trunk		
Cavity Details			2196
Cavity Height (m)	6		
Cavity Notes	*		
Tree ID	2		1665
Species	Pinus strobus	Location	
DBH (cm)	28	Latitude:45.842988,Longitude:-80.609765,Altitude:194.4,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:57:58 EDT	
Height (m)	4		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2199

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Cavity from piling bark

Plot ID	BAT-S-M26-356	1485

Location	Plot Notes
Latitude:45.842832,Longitude:-80.609974,Altitude:195.7,Speed:0.03086666,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:02:58 EDT	Treed plot on bedrock community with Pinus banksiana and Pinus strobus

Tree ID	1	1668

Species	Pinus banksiana	Location
DBH (cm)	31	Latitude:45.842831,Longitude:-80.609977,Altitude:195.7,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:03:14 EDT
Height (m)	22	
Canopy Cover (%)	35	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2202

Cavity Height (m)	8
Cavity Notes	Cavity from piling bark

Plot ID	BAT-S-M26-354	1488

Location	Plot Notes
Latitude:45.842573,Longitude:-80.610322,Altitude:195.7,Speed:0.03086666,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:12:06 EDT	Swamp community with Pinus banksiana Pinus strobus and Betula papyrifera

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1671
Species	Pinus banksiana	Location
DBH (cm)	31	Latitude:45.842594,Longitude:-80.610194,Altitude:196.1,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/21/2015 11:14:50 EDT
Height (m)	20	
Canopy Cover (%)	55	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		2205
Cavity Height (m)	10	
Cavity Notes		
Cavity from cracked trunk deep		

Plot ID	BAT-S-M26-350	1491
Location		Plot Notes
Latitude:45.842148,Longitude:-80.610036,Altitude:198.1,Speed:0.13375555,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:26:13 EDT		Community with Pinus strobus no trees with cavity

Plot ID	BAT-S-M26-357	1494
Location		Plot Notes
Latitude:45.842826,Longitude:-80.609518,Altitude:199.1,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:49:52 EDT		Bedrock with community Acer rubrum

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1674
Species	Pinus banksiana	Location	
DBH (cm)	29		
Height (m)	23		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2208
Cavity Height (m)	8		
Cavity Notes	Old hole cavity from Woodpecker activity		
Cavity Details			2211
Cavity Height (m)	5		
Cavity Notes	*		
Tree ID	2		1677
Species	Populus tremuloides	Location	
DBH (cm)	29	Latitude:45.842806,Longitude:-80.609618,Altitude:198.5,Speed:0.4269889,Accuracy:1.8,Provider:gps,Time:04/21/2015 11:58:28 EDT	
Height (m)	18		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2214

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	Cavity from broken branch
Plot ID	BAT-S-M26-353

1497

Location	Latitude:45.84257,Longitude:-80.609458,Altitude:200.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/21/2015 12:10:35 EDT	Plot Notes	Swamp area with Acer rubrum and Populus tremuloides

Tree ID	1

1680

Species	Populus tremuloides	Location	Latitude:45.842549,Longitude:-80.609377,Altitude:199.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/21/2015 12:16:06 EDT
DBH (cm)	30		
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details

2217

Cavity Height (m)	3
Cavity Notes	Cavity from cracked and peeling bark

Map Number	S-M25	Field Crew	AMI AND KACEY

267

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	Wet
Tablet	AECOM3	Wind Speed (beaufort)	4		
Start Date	4/21/2015 7:38:24 AM	Precipitation	1		
End Date	4/21/2015 2:00:56 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M25-284

1500

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.835758,Longitude:-80.611716,Altitude:197.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:24:09 EDT	Lots of Jack pine and white birch smaller then 25cm dbh. Pooled water in site, wet walking. No cavities found in polygon.

Plot ID	BAT-S-M25-292	1503

Location	Plot Notes
Latitude:45.837264,Longitude:-80.613627,Altitude:195.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:34:02 EDT	Very open area lots of dead trees. Right next to large marsh.

Plot ID	BAT-S-M26-300	1506

Location	Plot Notes
Latitude:45.837477,Longitude:-80.614127,Altitude:194.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:39:07 EDT	Just East of large marsh. Lots of young maples some birch and pine.

Plot ID	BAT-S-M26-308	1509

Location	Plot Notes
Latitude:45.837808,Longitude:-80.614163,Altitude:192.3,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:46:05 EDT	Centroid in open area. Fen just to west of location. Birch trees. One good poplar but too small to survey. No cavity trees in plot.

Plot ID	BAT-S-M26-305	1512

Location	Plot Notes
Latitude:45.837568,Longitude:-80.613623,Altitude:195.9,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:54:54 EDT	On rock barren with pines poplar and birch surrounding.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1683
Species	Pinus banksiana	Location	
DBH (cm)	27	Latitude:45.83748,Longitude:-80.613751,Altitude:199.2,Speed:0.1389,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:56:20 EDT	
Height (m)	11		
Canopy Cover (%)	30		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree	Recently dead jack Pine with three small Woodpecker holes in a row up the trunk.	
Suitable location for audio monitor?	N		

Cavity Details		2220
Cavity Height (m)	4	
Cavity Notes		
Small Woodpecker holes all within 2 meters of each other up the trunk.		

Plot ID	BAT-S-M25-297		1515
Location		Plot Notes	
Latitude:45.837324,Longitude:-80.613235,Altitude:198.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/21/2015 11:06:31 EDT		Low lying area between rock barren and fen. Pine birch red maple. No cavity trees in plot.	

Plot ID	BAT-S-M26-348		1518
Location		Plot Notes	
Latitude:45.841978,Longitude:-80.609207,Altitude:200.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:49:34 EDT		Birch maple jack pine	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1686
Species	Betula papyrifera	Location	
DBH (cm)	31	Latitude:45.841953,Longitude:-80.609097,Altitude:202.9,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:50:53 EDT	
Height (m)	13		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Birch with Woodpecker hole	
Suitable location for audio monitor?	N		

Cavity Details		2223
Cavity Height (m)	10	
Cavity Notes		
Woodpecker hole		

Plot ID	BAT-S-M26-351		1521
Location		Plot Notes	
Latitude:45.842201,Longitude:-80.609435,Altitude:194.2,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:04/21/2015 12:00:47 EDT		In thicket with standing water. Downed tree's. Birch maple poplar jack pine. Many trees under 25cm dbh. No cavity trees in plot.	

Map Number	S-M25	Field Crew	ADAM MCCLELLAND, AMY INGRISELLI	270

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	4.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4	Overcast, sunny breaks	
Start Date	4/21/2015 10:22:38 AM	Precipitation	0		
End Date	4/21/2015 12:30:24 PM	Cloud Cover	75.00		

Plot ID	BAT-S-M26-303		1524
Location		Plot Notes	
Latitude:45.837586,Longitude:-80.612418,Altitude:191.9,Speed:0.0,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:26:46 EDT		Edge of rock barrenWhite birch, red maple, red oak, poplar, jack pine, black spruce	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M25-294	1527

Location	Plot Notes
Latitude:45.837259,Longitude:-80.612196,Altitude:197.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:40:24 EDT	Wet thicketWhite birch, red maple, black ash

Tree ID	1	1689

Species	Acer rubrum	Location
DBH (cm)	43	Latitude:45.837238,Longitude:-80.61237,Altitude:196.6,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:44:34 EDT
Height (m)	16	
Canopy Cover (%)	80	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details		2226
Cavity Height (m)	3	

Cavity Notes

Knot in tree, 15 cm vertical gap

Cavity Details		2229
Cavity Height (m)	8	

Cavity Notes

Vertical crack in trunk

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1692
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.837225,Longitude:-80.612344,Altitude:195.9,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/21/2015 10:49:40 EDT	
Height (m)	12		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2232
Cavity Height (m)	2	
Cavity Notes		
30 cm vertical gap		

Tree ID	3		1695
Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.837205,Longitude:-80.612299,Altitude:197.1,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/21/2015 10:56:45 EDT	
Height (m)	12		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		2235
Cavity Height (m)	4	
Cavity Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		1698
Species	Acer rubrum	Location	
DBH (cm)	37	Latitude:45.837204,Longitude:-80.612335,Altitude:197.3,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:01:14 EDT	
Height (m)	20		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2238
Cavity Height (m)	4		
Cavity Notes	20 cm vertical crack in tree		
Tree ID	5		1701
Species	Acer rubrum	Location	
DBH (cm)	40	Latitude:45.837195,Longitude:-80.612343,Altitude:197.2,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:04:26 EDT	
Height (m)	4		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2241
Cavity Height (m)	3		
Cavity Notes	Crack in trunk		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	6	1704
Species	Acer rubrum	Location
DBH (cm)	30	Latitude:45.837231,Longitude:-80.612195,Altitude:194.7,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/21/2015 11:16:16 EDT
Height (m)	18	
Canopy Cover (%)	90	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2244
Cavity Height (m)	5
Cavity Notes	Craig and opening in trunk

Cavity Details	2247
Cavity Height (m)	10
Cavity Notes	Crack I bark and trunk, plus loose bark providing suitable cover.

Plot ID	BAT-S-M25-287	1530
Location	Latitude:45.83694,Longitude:-80.61232,Altitude:197.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:29:43 EDT	Plot Notes: Wet thicketRed maple, white birch, spruce, black ash, American beech

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1707
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.836898,Longitude:-80.612208,Altitude:202.3,Speed:0.10288889,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:34:31 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2250
Cavity Height (m)	5		
Cavity Notes			
Hole in tree 5 cm wide			
Plot ID	BAT-S-M25-286		1533
Location		Plot Notes	
Latitude:45.836829,Longitude:-80.612037,Altitude:198.8,Speed:0.010288889,Accuracy:2.4,Provider:gps,Time:04/21/2015 11:45:56 EDT		Wet thicket at edge of rock barrenSpruce, white birch, black ash, red maple, American beech	
Tree ID	1		1710
Species	Betula papyrifera	Location	
DBH (cm)	35	Latitude:45.836836,Longitude:-80.612073,Altitude:198.1,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:53:31 EDT	
Height (m)	8		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2253

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	7
Cavity Notes	Large woodpecker hole, may be deep enough12 cm wide

Plot ID	BAT-S-M25-290	1536

Location	Plot Notes
Latitude:45.837217,Longitude:-80.612827,Altitude:196.1,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:59:34 EDT	Edge of rock barren and thicketRed maple, white birch, black ash, balsam fir, white pine

Tree ID	1	1713

Species	Acer rubrum	Location
DBH (cm)	45	Latitude:45.837206,Longitude:-80.61278,Altitude:196.6,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/21/2015 12:02:43 EDT
Height (m)	17	
Canopy Cover (%)	75	
# of Cavities	4	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2256

Cavity Height (m)	5
Cavity Notes	30 cm vertical crack

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1716
Species	Acer rubrum	Location	
DBH (cm)	47	Latitude:45.837179,Longitude:-80.612755,Altitude:196.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/21/2015 12:05:54 EDT	
Height (m)	16		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2259
Cavity Height (m)	6
Cavity Notes	20 cm vertical crack

Map Number	S-M10	Field Crew	KRISTAN WASHBURN AND TOM SHORNEY		273
Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	2		
Start Date	4/21/2015 10:30:01 AM	Precipitation	0		
End Date	4/21/2015 2:59:41 PM	Cloud Cover	40.00		

Plot ID	BAT-S-M16-329		1539
Location	Latitude:45.839358,Longitude:-80.637843,Altitude:186.7,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/21/2015 11:14:38 EDT	Plot Notes	

Plot ID	BAT-S-M31-336		1542
Location	Latitude:45.840441,Longitude:-80.654806,Altitude:171.8,Speed:0.2778,Accuracy:2.1,Provider:gps,Time:04/21/2015 11:59:43 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	BAT-S-M21	Field Crew	JASON NORONHA AND AYESHA PRASAD		276
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	4.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/22/2015 11:26:50 AM	Precipitation	3		
End Date	4/22/2015 2:01:27 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M21-202	1545

Location	Plot Notes
Latitude:45.829383,Longitude:-80.615561,Altitude:190.7,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/22/2015 11:29:18 EDT	Red pine woodland with some paper birch by rock barrens

Plot ID	BAT-S-M21-208	1548

Location	Plot Notes
Latitude:45.829634,Longitude:-80.615282,Altitude:192.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/22/2015 11:38:27 EDT	

Plot ID	BAT-S-M21-213	1551

Location	Plot Notes
Latitude:45.829837,Longitude:-80.614988,Altitude:194.1,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:04/22/2015 11:45:53 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1719
Species	Populus grandidentata	Location	
DBH (cm)	36	Latitude:45.829859,Longitude:-80.615021,Altitude:196.3,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/22/2015 11:49:07 EDT	
Height (m)	25		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			2262
Cavity Height (m)	3		
Cavity Notes			
Plot ID	BAT-S-M21-204		1554
Location		Plot Notes	
Latitude:45.8295,Longitude:-80.614793,Altitude:193.6,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/22/2015 11:56:43 EDT			
Tree ID	1		1722
Species	Betula papyrifera	Location	
DBH (cm)	28	Latitude:45.829499,Longitude:-80.614788,Altitude:193.3,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/22/2015 11:56:54 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			2265

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Small opening with long slit

Tree ID	2	1725

Species	Populus grandidentata	Location
DBH (cm)	40	Latitude:45.829508,Longitude:-80.614778,Altitude:193.5,Speed:0.48872223,Accuracy:1.8,Provider:gps,Time:04/22/2015 11:59:44 EDT
Height (m)	24	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details	2268

Cavity Height (m)	3
Cavity Notes	

Plot ID	BAT-S-M21-203	1557

Location	Plot Notes
Latitude:45.829383,Longitude:-80.615163,Altitude:193.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:05:54 EDT	

Plot ID	BAT-S-M21-196	1560

Location	Plot Notes
Latitude:45.829145,Longitude:-80.615344,Altitude:194.2,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:14:06 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M21-194	1563

Location	Plot Notes
Latitude:45.829048,Longitude:-80.614912,Altitude:196.5,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:18:54 EDT	

Plot ID	BAT-S-M21-188	1566

Location	Plot Notes
Latitude:45.828613,Longitude:-80.616564,Altitude:198.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/22/2015 12:49:52 EDT	

Plot ID	BAT-S-M21-180	1569

Location	Plot Notes
Latitude:45.828196,Longitude:-80.61633,Altitude:192.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:56:09 EDT	

Tree ID	1	1728

Species	Quercus rubra	Location	
DBH (cm)	29	Latitude:45.828207,Longitude:-80.616352,Altitude:192.9,Speed:0.066877775,Accuracy:1.75,Provider:gps,Time:04/22/2015 12:58:23 EDT	
Height (m)	8		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	Y		

Cavity Details		2271
Cavity Height (m)	3	

Cavity Notes

Peeling bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1731
Species	Quercus rubra	Location	
DBH (cm)	30	Latitude:45.82817,Longitude:-80.616451,Altitude:199.2,Speed:0.1389,Accuracy:2.1,Provider:gps,Time:04/22/2015 01:03:31 EDT	
Height (m)	9		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	Y		
Cavity Details			2274
Cavity Height (m)	7		
Cavity Notes			
Plot ID	BAT-S-M21-177		1572
Location		Plot Notes	
Latitude:45.827921,Longitude:-80.615973,Altitude:196.1,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:08:57 EDT			
Tree ID	1		1734
Species	Unknown	Location	
DBH (cm)	32	Latitude:45.827921,Longitude:-80.615973,Altitude:196.1,Speed:0.1389,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:09:14 EDT	
Height (m)	5		
Canopy Cover (%)	35		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	Y		
Cavity Details			2277

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-S-M21-174	1575

Location	Plot Notes
Latitude:45.827823,Longitude:-80.616375,Altitude:202.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:15:15 EDT	

Tree ID	1	1737

Species	Poplar	Location
DBH (cm)	32	Latitude:45.827883,Longitude:-80.616394,Altitude:200.6,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:19:53 EDT
Height (m)	15	
Canopy Cover (%)	65	
# of Cavities	2	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	Y	

Cavity Details	2280

Cavity Height (m)	10
Cavity Notes	

Cavity Details	2283

Cavity Height (m)	12
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1740
Species	Populus grandidentata	Location	
DBH (cm)	40	Latitude:45.827819,Longitude:-80.616454,Altitude:201.4,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:28:25 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	Y		
Cavity Details			2286
Cavity Height (m)	17		
Cavity Notes			
Plot ID	BAT-S-M21-173		1578
Location		Plot Notes	
Latitude:45.827786,Longitude:-80.616719,Altitude:203.8,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:32:54 EDT			
Plot ID	BAT-S-M21-167		1581
Location		Plot Notes	
Latitude:45.82749,Longitude:-80.616664,Altitude:206.0,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:37:24 EDT			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1743
Species	Populus grandidentata	Location	
DBH (cm)	48	Latitude:45.82749,Longitude:-80.616664,Altitude:206.0,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:38:01 EDT	
Height (m)	25		
Canopy Cover (%)	20		
# of Cavities	2	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	Y		

Cavity Details		2289
Cavity Height (m)	2	
Cavity Notes		

Cavity Details		2292
Cavity Height (m)	20	
Cavity Notes		

Tree ID	2		1746
Species	Quercus rubra	Location	
DBH (cm)	54	Latitude:45.827567,Longitude:-80.616682,Altitude:197.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:44:27 EDT	
Height (m)	23		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	Y		

Cavity Details			2295
Execution Time	9/10/2015 12:20:04 PM	Filter Start Date	4/1/2015
		Filter End Date	5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Peeling bark

Cavity Details 2298

Cavity Height (m)	20
Cavity Notes	

Plot ID	BAT-S-M21-165	1584

Location	Plot Notes
Latitude:45.827287,Longitude:-80.616996,Altitude:202.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:50:51 EDT	

Tree ID	1	1749

Species	Unknown	Location
DBH (cm)	35	
Height (m)	3	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	Y	

Cavity Details 2301

Cavity Height (m)	2
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1752
Species	Pinus resinosa	
DBH (cm)	37	
Height (m)	18	
Canopy Cover (%)	50	
# of Cavities	1	
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	Y	
Location	Latitude:45.827332,Longitude:-80.617014,Altitude:202.7,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:53:02 EDT	
Notes		

Cavity Details		2304
Cavity Height (m)	2	
Cavity Notes	Peeling bark	

Plot ID	BAT-S-M21-161	1587
Location	Latitude:45.826989,Longitude:-80.616782,Altitude:194.8,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:01:14 EDT	
Plot Notes		

Map Number	BAT-S-M31	Field Crew	KRISTAN WASHBURN, DAVE NORMAN, TOM SHORNEY	279
Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes
Tablet	AECOM7	Wind Speed (beaufort)	2	Sleet, snow, rain
Start Date	4/22/2015 11:10:36 AM	Precipitation	3	
End Date	4/22/2015 4:46:18 PM	Cloud Cover	100.00	

Plot ID	BAT-S-M31-285	1590
Location	Latitude:45.836274,Longitude:-80.653414,Altitude:194.3,Speed:0.31381112,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:11:55 EDT	
Plot Notes	A combination of jackpine and blackspruce. All below 25 dbh	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M32-258	1593

Location

Latitude:,Longitude:,Altitude:,Speed:,Accuracy:,Provider:,Time:

Plot Notes

Tree ID	1	1755

Species	Betula papyrifera
DBH (cm)	35
Height (m)	8
Canopy Cover (%)	30
# of Cavities	1
Decay Class	6 Very old dead tree
Suitable location for audio monitor?	N

Location

Latitude:45.832516,Longitude:-80.655233,Altitude:181.8,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:39:52 EDT

Notes

Cavity Details 2307

Cavity Height (m) 7

Cavity Notes

Rotten wood, cavity under bark

Plot ID	BAT-S-M33-168	1596

Location

Latitude:45.82751,Longitude:-80.64725,Altitude:194.2,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/22/2015 12:58:53 EDT

Plot Notes

Plot ID	BAT-S-M34-182	1599

Location

Latitude:45.828362,Longitude:-80.644983,Altitude:195.8,Speed:0.10803334,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:07:03 EDT

Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M34-217	1602

Location	Plot Notes
Latitude:45.829958,Longitude:-80.644081,Altitude:199.3,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:13:26 EDT	

Plot ID	BAT-S-M34-229	1605

Location	Plot Notes
Latitude:45.831013,Longitude:-80.642862,Altitude:208.3,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:22:11 EDT	

Map Number	S-M22	Field Crew	AMY INGRISELLI ADAM MCCLELAND	282

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	0.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	2	Light rain and wet snow
Start Date	4/22/2015 10:55:54 AM	Precipitation	1	
End Date	4/22/2015 3:06:14 PM	Cloud Cover	100.00	

Plot ID	BAT-S-M22-63	1608

Location	Plot Notes
Latitude:45.824264,Longitude:-80.613261,Altitude:187.9,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:47:32 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1758
Species	Acer rubrum	Location	
DBH (cm)	34	Latitude:45.824171,Longitude:-80.613323,Altitude:190.6,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:52:25 EDT	
Height (m)	18		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2310
Cavity Height (m)	8		
Cavity Notes	Crack on trunk plus loose bark		
Tree ID	2		1761
Species	Pinus banksiana	Location	
DBH (cm)	29	Latitude:45.824161,Longitude:-80.613255,Altitude:189.6,Speed:0.5453111,Accuracy:1.5,Provider:gps,Time:04/22/2015 03:05:51 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2313
Cavity Height (m)	10		
Cavity Notes	Hole in trunk to sheltered void		
Cavity Details			2316

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	15
Cavity Notes	Gaps a 2 decayed branches, plus a bit of loose bark

Plot ID	BAT-S-M22-66	1611

Location	Plot Notes
Latitude:45.824242,Longitude:-80.614058,Altitude:200.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:46:17 EDT	Bedrock and treed fen

Tree ID	1	1764

Species	Quercus rubra	Location	
DBH (cm)	33	Latitude:45.824175,Longitude:-80.613889,Altitude:196.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:54:27 EDT	
Height (m)	15		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2319

Cavity Height (m)	12
Cavity Notes	Dead branch at top of tree

Plot ID	BAT-S-M22-67	1614

Location	Plot Notes
Latitude:45.824309,Longitude:-80.614734,Altitude:194.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/22/2015 01:27:19 EDT	Bedrock and treed fen

Plot ID	BAT-S-M22-71	1617

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824473,Longitude:-80.615259,Altitude:196.1,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:02:22 EDT	

Tree ID	1	1767

Species	Populus sp	Location	
DBH (cm)	46	Latitude:45.824514,Longitude:-80.615275,Altitude:194.7,Speed:0.35496667,Accuracy:2.0,Provider:gps,Time:04/22/2015 01:06:33 EDT	
Height (m)	12		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2322

Cavity Height (m)	12
Cavity Notes	
Loose bark in patches 2to 12 m high on trunk may be suitable cover	

Tree ID	2	1770

Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.824483,Longitude:-80.615378,Altitude:195.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:23:26 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2325

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	18
Cavity Notes	Crack at base of dead branch

Cavity Details 2328

Cavity Height (m)	19
Cavity Notes	Void at old branch base

Plot ID	BAT-S-M22-75	1620

Location	Plot Notes
Latitude:45.824675,Longitude:-80.615808,Altitude:189.9,Speed:0.19034444,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:01:57 EDT	Dense shrub layer, moose browse

Tree ID	1	1773

Species	Populus tremuloides	Location
DBH (cm)	43	Latitude:45.824786,Longitude:-80.615848,Altitude:191.8,Speed:0.38583332,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:15:29 EDT
Height (m)	25	
Canopy Cover (%)	85	
# of Cavities	1	Notes
Decay Class		
Suitable location for audio monitor?	N	

Cavity Details 2331

Cavity Height (m)	4
Cavity Notes	Crack in trunk 2-4m high

Plot ID	BAT-S-M22-109	1623

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.825338,Longitude:-80.616917,Altitude:194.2,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:12:01 EDT	Dense shrub layer, Alces alces browse. Fraxinus nigra swamp

Plot ID	BAT-S-M22-101	1626

Location	Plot Notes
Latitude:45.825232,Longitude:-80.616309,Altitude:189.3,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:20:31 EDT	Dense shrub layer, Alces alces browse

Tree ID	1	1776

Species	Populus grandidentata	Location
DBH (cm)	42	Latitude:45.82511,Longitude:-80.616244,Altitude:193.8,Speed:0.20577778,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:34:18 EDT
Height (m)	30	
Canopy Cover (%)	75	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	2334

Cavity Height (m)	18

Cavity Notes

Crack along trunk 10-15m high

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1779
Species	Populus grandidentata	Location	
DBH (cm)	35	Latitude:45.825094,Longitude:-80.616175,Altitude:187.9,Speed:0.19548889,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:37:28 EDT	
Height (m)	28		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2337
Cavity Height (m)	10		
Cavity Notes	Crack in trunk 5-10m high		
Plot ID	BAT-S-M22-81		1629
Location	Latitude:45.824793,Longitude:-80.6161,Altitude:185.6,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:40:19 EDT	Plot Notes	Dense shrub layer, Alces Alces browse
Tree ID	1		1782
Species	Populus grandidentata	Location	
DBH (cm)	39	Latitude:45.824804,Longitude:-80.61614,Altitude:191.5,Speed:0.39612222,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:56:58 EDT	
Height (m)	25		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2340

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Crack and loose bark in trunk

Plot ID	BAT-S-M22-82	1638

Location	Plot Notes
Latitude:45.824855,Longitude:-80.615459,Altitude:189.7,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:19:08 EDT	

Tree ID	1	1788

Species	Populus tremuloides	Location	
DBH (cm)	48	Latitude:45.824759,Longitude:-80.615569,Altitude:188.4,Speed:0.6121889,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:26:27 EDT	
Height (m)	28		
Canopy Cover (%)	85		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2346
Cavity Height (m)	20
Cavity Notes	At base of decayed branch
Cavity Details	2349
Cavity Height (m)	15
Cavity Notes	At base of branch

Plot ID	BAT-S-M22-88	1641

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824979,Longitude:-80.61573,Altitude:177.9,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/22/2015 11:17:06 EDT	Dense shrub layer, Alces alces browse

Plot ID	BAT-S-M22-90	1647

Location	Plot Notes
Latitude:45.825007,Longitude:-80.616713,Altitude:175.3,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/22/2015 10:55:53 EDT	Fraxinus nigra swamp

Tree ID	1	1794

Species	Populus tremuloides	Location	
DBH (cm)	40	Latitude:45.824963,Longitude:-80.616816,Altitude:181.4,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:01:36 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		2361
Cavity Height (m)	11	
Cavity Notes	Crack in trunk	

Map Number	S-M23	Field Crew	JOHANNA PEREZ, SARAH RICHER		285
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	2	Wet snow	
Start Date	4/22/2015 10:29:58 AM	Precipitation	1		
End Date	4/22/2015 5:13:03 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M23-154	1632

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826629,Longitude:-80.608373,Altitude:192.7,Speed:0.15947777,Accuracy:1.75,Provider:gps,Time:04/22/2015 10:31:28 EDT	

Plot ID: BAT-S-M23-152 — 1635

Location	Plot Notes
Latitude:45.826346,Longitude:-80.608381,Altitude:194.6,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/22/2015 10:40:23 EDT	

Tree ID: 01 — 1785

Species	Pinus banksiana	Location	
DBH (cm)	29	Latitude:45.826397,Longitude:-80.60835,Altitude:194.7,Speed:0.36011112,Accuracy:1.75,Provider:gps,Time:04/22/2015 10:46:06 EDT	
Height (m)	4		
Canopy Cover (%)	25		
# of Cavities	2	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2343

Cavity Height (m): 2

Cavity Notes: Deep woodpecker hole but no central cavity

Cavity Details — 2352

Cavity Height (m): 4

Cavity Notes: Old Pileated nesting cavity

Plot ID: BAT-S-M22-150 — 1644

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826272,Longitude:-80.609163,Altitude:199.3,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/22/2015 10:53:05 EDT	Treed fen

Tree ID	01	1791

Species	Larix larcina	Location	
DBH (cm)	26	Latitude:45.826274,Longitude:-80.609207,Altitude:199.3,Speed:0.15433334,Accuracy:1.5,Provider:gps,Time:04/22/2015 10:56:57 EDT	
Height (m)	13		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2355
Cavity Height (m)	2	
Cavity Notes	Small hole	

Cavity Details		2358
Cavity Height (m)	4	
Cavity Notes	Base of branch that rotted	

Plot ID	BAT-S-M22-143	1650

Location	Plot Notes
Latitude:45.826034,Longitude:-80.609205,Altitude:197.7,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:06:25 EDT	Lots of moose browse

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01		1797
Species	Betula papyrifera	Location	
DBH (cm)	33	Latitude:45.826037,Longitude:-80.60916,Altitude:198.5,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:08:46 EDT	
Height (m)	11		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2364
Cavity Height (m)	10		
Cavity Notes	Large cavity near top of tree		
Tree ID	02		1800
Species	Betula papyrifera	Location	
DBH (cm)	35	Latitude:45.825925,Longitude:-80.609128,Altitude:201.2,Speed:0.087455556,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:13:26 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2367
Cavity Height (m)	1		
Cavity Notes	Vertical gash/crack in tree		
Cavity Details			2370

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Peeling sheets of bark

Plot ID	BAT-S-M22-132	1653

Location	Plot Notes
Latitude:45.825868,Longitude:-80.609549,Altitude:201.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:38:26 EDT	

Tree ID	01	1803

Species	Populus balsamifera	Location
DBH (cm)	28	Latitude:45.825928,Longitude:-80.60949,Altitude:200.6,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:43:12 EDT
Height (m)	15	
Canopy Cover (%)	75	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	2373

Cavity Height (m)	2
Cavity Notes	Deep 1m long crevice

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02		1806
Species	Betula papyrifera	Location	
DBH (cm)	31	Latitude:45.825799,Longitude:-80.609515,Altitude:200.7,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:52:31 EDT	
Height (m)	12		
Canopy Cover (%)	35		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2376
Cavity Height (m)	11		
Cavity Notes			

Tree ID	03		1809
Species	Betula papyrifera	Location	
DBH (cm)	44	Latitude:45.825894,Longitude:-80.60936,Altitude:198.0,Speed:0.5504556,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:02:31 EDT	
Height (m)	17		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2379
Cavity Height (m)	11		
Cavity Notes	Base of a fallen branch/natural cavity, uncertain if very deep		

Plot ID	BAT-S-M22-135		1656

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.825929,Longitude:-80.609869,Altitude:197.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:07:16 EDT	Heavy moose browsing

Tree ID	01	1812

Species	Betula papyrifera	Location	
DBH (cm)	36	Latitude:45.825947,Longitude:-80.609827,Altitude:196.8,Speed:0.6482,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:19:03 EDT	
Height (m)	12		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2382
Cavity Height (m)	8	
Cavity Notes	Small deep holes	

Cavity Details		2385
Cavity Height (m)	9	
Cavity Notes	Peeling bark	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02		1815
Species	Betula papyrifera	Location	
DBH (cm)	35	Latitude:45.82585,Longitude:-80.609926,Altitude:195.3,Speed:0.38583332,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:19:36 EDT	
Height (m)	14		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2388
Cavity Height (m)	5	
Cavity Notes	.5m slit in bark	

Plot ID	BAT-S-M22-124		1659
Location	Latitude:45.825611,Longitude:-80.610056,Altitude:199.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:27:56 EDT	Plot Notes	On rock outcrop

Plot ID	BAT-S-M22-115		1662
Location	Latitude:45.825419,Longitude:-80.610656,Altitude:198.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:34:02 EDT	Plot Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	1818
Species	Quercus rubra	
DBH (cm)	50	
Height (m)	12	
Canopy Cover (%)	95	
# of Cavities	1	
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.82536,Longitude:-80.610781,Altitude:198.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/22/2015 12:40:32 EDT	
Notes		

Cavity Details		2391
Cavity Height (m)	12	
Cavity Notes	Cluster of a few small old woodecker holes, holes may be quite deep	

Plot ID	BAT-S-M22-98	1665
Location	Latitude:45.825187,Longitude:-80.610913,Altitude:201.8,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:08:15 EDT	
Plot Notes		

Plot ID	BAT-S-M22-92	1668
Location	Latitude:45.82505,Longitude:-80.611926,Altitude:200.6,Speed:0.7510889,Accuracy:2.1,Provider:gps,Time:04/22/2015 01:16:19 EDT	
Plot Notes	Another excellent cavity tree outside plot boundaries and suitable feeding habitat nearby, might want to conside setting up acoustic monitoring device on this or some other plots on map 22	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01		1821
Species	Acer sacharum	Location	
DBH (cm)	57	Latitude:45.825061,Longitude:-80.61186,Altitude:200.4,Speed:0.10288889,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:18:09 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Plot near open rock outcrop	
Suitable location for audio monitor?	Y		
Cavity Details			2394
Cavity Height (m)	2		
Cavity Notes	Large natural cavity		
Tree ID	02		1824
Species	Acer saccharum	Location	
DBH (cm)	43	Latitude:45.82514,Longitude:-80.612062,Altitude:207.2,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:37:55 EDT	
Height (m)	1		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Out of plot boundaries but ideal couldn't ignore	
Suitable location for audio monitor?	N		
Cavity Details			2397
Cavity Height (m)	1		
Cavity Notes			
Plot ID	BAT-S-M22-79		1671

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824789,Longitude:-80.612001,Altitude:205.9,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:48:44 EDT	

Tree ID	01	1827

Species	Populus grandidentata	Location	
DBH (cm)	51	Latitude:45.824768,Longitude:-80.61202,Altitude:206.2,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:49:54 EDT	
Height (m)	18		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2400

Cavity Height (m)	8

Cavity Notes

Small cavity result of broken limb

Tree ID	02	1830

Species	Populus grandidentata	Location	
DBH (cm)	33	Latitude:45.824791,Longitude:-80.612136,Altitude:206.8,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:56:21 EDT	
Height (m)	13		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2403

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	

Plot ID	BAT-S-M22-78	1674

Location	Plot Notes
Latitude:45.824765,Longitude:-80.612381,Altitude:202.8,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:02:24 EDT	

Plot ID	BAT-S-M22-91	1677

Location	Plot Notes
Latitude:45.824994,Longitude:-80.612696,Altitude:199.7,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:09:57 EDT	

Plot ID	BAT-S-M22-117	1680

Location	Plot Notes
Latitude:45.825463,Longitude:-80.61266,Altitude:197.6,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:22:49 EDT	

Plot ID	BAT-S-M22-72	1683

Location	Plot Notes
Latitude:45.824605,Longitude:-80.613262,Altitude:199.8,Speed:0.10288889,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:35:03 EDT	On rock outcrop

Plot ID	BAT-S-M22-73	1686

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824603,Longitude:-80.612802,Altitude:195.8,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:39:11 EDT	

Tree ID	01		1833
Species	Pinus resinosa	Location	
DBH (cm)	27	Latitude:45.824574,Longitude:-80.612728,Altitude:197.1,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/22/2015 02:41:39 EDT	
Height (m)	11		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2406
Cavity Height (m)	0	
Cavity Notes	A few small into hollow but very low to ground, probably not suitable maternal cavity	

Plot ID	BAT-S-M22-69	1689

Location	Plot Notes
Latitude:45.824321,Longitude:-80.612669,Altitude:196.9,Speed:0.2212111,Accuracy:1.8,Provider:gps,Time:04/22/2015 03:02:09 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01		1836
Species	Quercus rubra	Location	
DBH (cm)	36	Latitude:45.82426,Longitude:-80.61273,Altitude:196.8,Speed:0.20577778,Accuracy:1.8,Provider:gps,Time:04/22/2015 02:53:29 EDT	
Height (m)	10		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2409
Cavity Height (m)	4		
Cavity Notes			
Cavity Details			2412
Cavity Height (m)	6		
Cavity Notes	Small hole in notch between branches		
Tree ID	02		1839
Species	Quercus rubra	Location	
DBH (cm)	39	Latitude:45.824211,Longitude:-80.612748,Altitude:198.8,Speed:0.43213335,Accuracy:1.8,Provider:gps,Time:04/22/2015 03:01:24 EDT	
Height (m)	15		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2415

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	9
Cavity Notes	

Map Number	S-M21	Field Crew	AMI AND KACEY	288

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4	Snow	
Start Date	4/22/2015 11:27:09 AM	Precipitation	3		
End Date	4/22/2015 5:23:02 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M21-145	1692

Location	Plot Notes
Latitude:45.826125,Longitude:-80.617637,Altitude:193.9,Speed:0.08231111,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:45:09 EDT	Lots of poplar maple and some pine

Tree ID	1	1842

Species	Large tooth aspen	Location	
DBH (cm)	42	Latitude:45.826085,Longitude:-80.617623,Altitude:195.8,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:47:19 EDT	
Height (m)	15		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Large popular with long crevice	
Suitable location for audio monitor?	N		

Cavity Details	2418

Cavity Height (m)	11
Cavity Notes	Large crevice

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1845
Species	Large tooth Aspen	Location
DBH (cm)	47	Latitude:45.826111,Longitude:-80.617645,Altitude:195.9,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:04/22/2015 11:51:07 EDT
Height (m)	23	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	2 Declining tree	Large poplar with hole from decayed branch
Suitable location for audio monitor?	N	

Cavity Details		2421
Cavity Height (m)	19	
Cavity Notes		
Larg cavity from branch decay		

Plot ID	BAT-S-M21-138	1695
Location	Plot Notes	
Latitude:45.826001,Longitude:-80.61801,Altitude:191.5,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/22/2015 11:58:41 EDT	Surrounded by some dead trees. Poplars red maples and some pine.	

Plot ID	BAT-S-M21-126	1698
Location	Plot Notes	
Latitude:45.825664,Longitude:-80.61767,Altitude:185.2,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/22/2015 12:05:43 EDT	Poplars maples and some birch	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1848
Species	Populus tremuloides	Location
DBH (cm)	32	Latitude:45.825686,Longitude:-80.61757,Altitude:187.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/22/2015 12:08:08 EDT
Height (m)	17	
Canopy Cover (%)	55	
# of Cavities	2	Notes
Decay Class	2 Declining tree	Tall poplar with two nice sized woodpecker holes
Suitable location for audio monitor?	N	

Cavity Details		2424
Cavity Height (m)	11	
Cavity Notes	Hole from branch decay	

Cavity Details		2427
Cavity Height (m)	12	
Cavity Notes	Large hole	

Plot ID	BAT-S-M21-111	1701
Location	Latitude:45.825424,Longitude:-80.61745,Altitude:187.6,Speed:0.087455556,Accuracy:1.75,Provider:gps,Time:04/22/2015 12:15:25 EDT	Plot Notes: Poplars and maples

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1851
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.825439,Longitude:-80.617518,Altitude:187.6,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/22/2015 12:16:57 EDT	
Height (m)	15		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Populus with perfect hole for bats	
Suitable location for audio monitor?	N		
Cavity Details			2430
Cavity Height (m)	10		
Cavity Notes	Hole		
Tree ID	2		1854
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.825342,Longitude:-80.617544,Altitude:190.6,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/22/2015 12:26:30 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Large hole near top of tree	
Suitable location for audio monitor?	N		
Cavity Details			2433
Cavity Height (m)	14		
Cavity Notes	Large hole		
Plot ID	BAT-S-M21-141		1704

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826047,Longitude:-80.618692,Altitude:193.8,Speed:0.10803334,Accuracy:1.8,Provider:gps,Time:04/22/2015 01:06:56 EDT	Poplar maple jack pine birch. No bat cavity plots.

Plot ID	BAT-S-M21-147	1707

Location	Plot Notes
Latitude:45.826174,Longitude:-80.61837,Altitude:197.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/22/2015 01:15:51 EDT	Centroid on rock barren. All surrounding trees smaller then 25cm. No cavity trees in plot.

Plot ID	BAT-S-M21-153	1710

Location	Plot Notes
Latitude:45.826462,Longitude:-80.618641,Altitude:198.9,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/22/2015 01:21:08 EDT	On slope of 'rock barren. Maple birch poplar and pine.

Tree ID	1	1857

Species	Acer rubrum	Location	
DBH (cm)	31	Latitude:45.826482,Longitude:-80.618719,Altitude:199.6,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/22/2015 01:22:42 EDT	
Height (m)	13		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Maple with three codominant trunks. Some die back.	
Suitable location for audio monitor?	N		

Cavity Details	2436

Cavity Height (m)	5

Cavity Notes

Hole from branch decay

Plot ID	BAT-S-M21-156	1713

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826741,Longitude:-80.619174,Altitude:200.4,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:29:03 EDT	Fairly open area with maples poplar birch and jack pine

Plot ID: BAT-S-M21-158 — 1716

Location	Plot Notes
Latitude:45.82669,Longitude:-80.619639,Altitude:201.4,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:34:59 EDT	Wet area with some standing water. Birch dominates with some poplar. Some nice healthy birch.

Plot ID: BAT-S-M21-160 — 1719

Location	Plot Notes
Latitude:45.826988,Longitude:-80.61996,Altitude:199.3,Speed:0.051444445,Accuracy:1.75,Provider:gps,Time:04/22/2015 01:49:03 EDT	Birch maple poplar. No bat cavity in plot.

Map Number: WEC-N-M31 — Field Crew: JASON NORONHA AYESHA PRASAD KEVIN TOMS — 291

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/23/2015 11:12:53 AM	Precipitation	0		
End Date	4/23/2015 2:21:08 PM	Cloud Cover	100.00		

Plot ID: BAT-N-M31-219 — 1722

Location	Plot Notes
Latitude:45.88334,Longitude:-80.681397,Altitude:187.6,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/23/2015 11:15:20 EDT	

Plot ID: BAT-N-M31-217 — 1728

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.883042,Longitude:-80.681496,Altitude:187.2,Speed:0.03601111,Accuracy:1.75,Provider:gps,Time:04/23/2015 11:20:33 EDT	

Plot ID: BAT-N-M31-218 — 1734

Location	Plot Notes
Latitude:45.883189,Longitude:-80.681865,Altitude:188.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/23/2015 11:26:11 EDT	Stand of small black spruce with Labrador tea

Plot ID: BAT-N-M31-215 — 1740

Location	Plot Notes
Latitude:45.882883,Longitude:-80.682196,Altitude:190.4,Speed:0.1852,Accuracy:2.0,Provider:gps,Time:04/23/2015 11:33:38 EDT	

Plot ID: BAT-N-M31-210 — 1743

Location	Plot Notes
Latitude:45.882555,Longitude:-80.682263,Altitude:190.1,Speed:0.10803334,Accuracy:1.75,Provider:gps,Time:04/23/2015 11:46:14 EDT	Black spruce with Ledum groenlandicum and Sphagnum

Plot ID: BAT-N-M31-211 — 1746

Location	Plot Notes
Latitude:45.882808,Longitude:-80.682534,Altitude:190.1,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/23/2015 11:50:48 EDT	

Plot ID: BAT-N-M31-220 — 1749

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.883756,Longitude:-80.681885,Altitude:190.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/23/2015 11:56:19 EDT	Only small trees - black spruce

Plot ID	BAT-N-M31-205	1752

Location	Plot Notes
Latitude:45.881675,Longitude:-80.675162,Altitude:191.0,Speed:0.11317778,Accuracy:1.75,Provider:gps,Time:04/23/2015 12:51:45 EDT	No suitable trees

Plot ID	BAT-N-M31-204	1758

Location	Plot Notes
Latitude:45.881491,Longitude:-80.675471,Altitude:192.1,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/23/2015 12:58:42 EDT	No suitable trees

Plot ID	BAT-N-M31-206	1764

Location	Plot Notes
Latitude:45.881754,Longitude:-80.675554,Altitude:189.7,Speed:0.020577777,Accuracy:2.0,Provider:gps,Time:04/23/2015 01:02:26 EDT	

Tree ID	1	1860

Species	White pine	Location	
DBH (cm)	28	Latitude:45.881756,Longitude:-80.675556,Altitude:189.5,Speed:0.025722222,Accuracy:2.0,Provider:gps,Time:04/23/2015 01:02:55 EDT	
Height (m)	12		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2439

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-N-M31-207	1776

Location	Plot Notes
Latitude:45.881931,Longitude:-80.675193,Altitude:186.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:12:00 EDT	

Tree ID	1	1866

Species	White pine	Location
DBH (cm)	25	Latitude:45.88193,Longitude:-80.675192,Altitude:186.9,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:12:38 EDT
Height (m)	11	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	2445

Cavity Height (m)	2
Cavity Notes	Peeling bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1869
Species	White pine	Location
DBH (cm)	28	Latitude:45.882035,Longitude:-80.67532,Altitude:187.4,Speed:0.12346666,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:16:01 EDT
Height (m)	12	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2448
Cavity Height (m)	8	
Cavity Notes		

Plot ID	BAT-N-M31-208	1788
Location	Latitude:45.882055,Longitude:-80.675343,Altitude:186.2,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:20:19 EDT	Plot Notes: No suitable trees

Plot ID	BAT-N-M31-209	1794
Location	Latitude:45.882125,Longitude:-80.675992,Altitude:180.7,Speed:0.6019,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:27:41 EDT	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1872
Species	Populus grandidentata	Location	
DBH (cm)	27	Latitude:45.882536,Longitude:-80.675932,Altitude:178.2,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:40:01 EDT	
Height (m)	18		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2451
Cavity Height (m)	8		
Cavity Notes			
Tree ID	2		1875
Species	Populus grandidentata	Location	
DBH (cm)	28	Latitude:45.882558,Longitude:-80.675923,Altitude:177.6,Speed:0.5504556,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:43:44 EDT	
Height (m)	8		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2454
Cavity Height (m)	1		
Cavity Notes			
Plot ID	BAT-N-M31-214		1806

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.882786,Longitude:-80.676205,Altitude:177.0,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:49:37 EDT	No suitable trees

Plot ID: BAT-N-M31-216 — 1815

Location	Plot Notes
Latitude:45.882678,Longitude:-80.675743,Altitude:177.8,Speed:0.9568667,Accuracy:1.75,Provider:gps,Time:04/23/2015 02:04:02 EDT	No suitable trees

Map Number: N-M40 — Field Crew: AMI AND KACEY — 294

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	-2.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	4	Dusting of snow overnight	
Start Date	4/23/2015 7:30:08 AM	Precipitation	0		
End Date	4/23/2015 3:56:42 PM	Cloud Cover	100.00		

Plot ID: BAT-N-M40-181 — 1725

Location	Plot Notes
Latitude:45.877141,Longitude:-80.687034,Altitude:190.4,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/23/2015 11:35:25 EDT	On rock barren with some small jack pine. No cavity trees in plot.

Plot ID: BAT-N-M40-177 — 1731

Location	Plot Notes
Latitude:45.876243,Longitude:-80.686838,Altitude:190.3,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/23/2015 12:00:51 EDT	Very hard to find center. Barren to the north and thicket to south young spruce stand. No cavity trees in plot.

Plot ID: BAT-N-M40-176 — 1737

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.87619,Longitude:-80.687214,Altitude:190.9,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/23/2015 12:17:29 EDT	In bog area. Lots of pitcher plants. Young spruce. jack pine. No cavity trees found due to small dbh.

Plot ID	BAT-N-M40-175	1755

Location	Plot Notes
Latitude:45.875899,Longitude:-80.687392,Altitude:190.9,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/23/2015 12:22:18 EDT	In bog. Small spruce. No cavity trees in plot.

Plot ID	BAT-N-M40-178	1761

Location	Plot Notes
Latitude:45.876452,Longitude:-80.687441,Altitude:189.9,Speed:0.10803334,Accuracy:1.5,Provider:gps,Time:04/23/2015 12:26:28 EDT	In bog and west of rock barren. All spruce and tamarack and jack pine smaller then 25cm dbh.

Plot ID	BAT-N-M40-179	1767

Location	Plot Notes
Latitude:45.876698,Longitude:-80.687412,Altitude:190.3,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/23/2015 12:29:23 EDT	On rock barren and bog. All surrounding trees smaller than 25cm dbh.

Plot ID	BAT-N-M40-180	1770

Location	Plot Notes
Latitude:45.87709,Longitude:-80.687394,Altitude:186.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/23/2015 12:34:53 EDT	Wet area all trees under 25 cm dbh. No cavity trees in plot.

Plot ID	BAT-N-M40-184	1773

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.879066,Longitude:-80.688841,Altitude:179.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/23/2015 01:18:39 EDT	On rock barren surrounded by thickets on either side with lots of trees under 25cm. Only one cavity tree found.

Tree ID	1	1863

Species	Pinus banksiana	Location	
DBH (cm)	32	Latitude:45.879066,Longitude:-80.68884,Altitude:179.2,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/23/2015 01:19:21 EDT	
Height (m)	12		
Canopy Cover (%)	20		
# of Cavities	3	Notes	
Decay Class	4 Recently dead tree	Dead jack pine with lots of Woodpecker holes	
Suitable location for audio monitor?	N		

Cavity Details		2442
Cavity Height (m)	9	
Cavity Notes	Four small Woodpecker holes directly in line with each other up the trunk near the top of the tree.	

Plot ID	BAT-N-M40-198	1779

Location	Plot Notes
Latitude:45.880286,Longitude:-80.689911,Altitude:176.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:37:32 EDT	In dense spruce thicket. No trees greater then 25cm. No cavity trees in plot.

Plot ID	BAT-N-M40-201	1782

Location	Plot Notes
Latitude:45.880397,Longitude:-80.690631,Altitude:178.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:42:36 EDT	In-between two Rock barrens. Spruce and jack pine dominant. All surrounding trees smaller then 25cm. No cavity trees in plot.

Plot ID	BAT-N-M40-202	1785

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.880528,Longitude:-80.691001,Altitude:175.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:47:36 EDT	Rock barren spruce and jack pine. All surrounding trees less than 25cm. No cavity trees in plot.

Plot ID	BAT-N-M40-199	1791

Location	Plot Notes
Latitude:45.880277,Longitude:-80.691143,Altitude:172.4,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:52:01 EDT	Wet area with spruce. All surrounding trees smaller then 25cm dbh. No cavity trees in plot.

Plot ID	BAT-N-M40-194	1797

Location	Plot Notes
Latitude:45.880008,Longitude:-80.690957,Altitude:171.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/23/2015 01:57:34 EDT	Middle of spruce thicket. No trees larger then 25 cm. No cavity trees in plot.

Plot ID	BAT-N-M40-193	1800

Location	Plot Notes
Latitude:45.87999,Longitude:-80.691375,Altitude:173.4,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/23/2015 02:02:53 EDT	Wet area next to Barren. All trees under 25cm dbh. No cavity trees in plot. Spruce and tamarack.

Plot ID	BAT-N-M40-196	1803

Location	Plot Notes
Latitude:45.880212,Longitude:-80.691669,Altitude:176.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/23/2015 02:06:59 EDT	Rock barren spruce and jack pine. All surrounding trees less than 25cm. No cavity trees.

Plot ID	BAT-N-M40-190	1809

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.879965,Longitude:-80.691937,Altitude:179.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/23/2015 02:12:06 EDT	Rock barren all spruce and tamarack less than 25cm dbh. No cavity trees in plot.

Map Number	N-M30	Field Crew	ADAM MCCLELLAND, JOHANNA PERZ		297
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	1.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 10:11:58 AM	Precipitation	0		
End Date	4/23/2015 10:19:01 AM	Cloud Cover	100.00		
Plot ID	BAT-N-M30-174				1818

Location	Plot Notes
Latitude:45.875754,Longitude:-80.676415,Altitude:185.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/23/2015 10:14:07 EDT	No suitable trees above 25 cm dbhStand of jack pine and black spruce surrounded by rock barrensLow wet area in centre of plot

Map Number	N-M29	Field Crew	ADAM MCCLELLAND , JOHANNA PERZ		300
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	4/23/2015 11:10:29 AM	Precipitation	0		
End Date	4/23/2015 1:55:22 PM	Cloud Cover	100.00		
Plot ID	BAT-N-M29-141				1821

Location	Plot Notes
Latitude:45.873885,Longitude:-80.668309,Altitude:185.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/23/2015 11:11:51 EDT	Swamp surrounded by rock barrensJuniper, jack pine, black spruceNo suitable trees

Plot ID	BAT-N-M29-134		1824

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.873601,Longitude:-80.668264,Altitude:186.8,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/23/2015 11:18:15 EDT	Swamp surrounded by rock barrensJuniper, black spruce, jack pineNo suitable trees

Plot ID: BAT-N-M29-129 — 1827

Location	Plot Notes
Latitude:45.87354,Longitude:-80.668791,Altitude:189.1,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/23/2015 11:37:30 EDT	Bog adjacent to rock barrensBlack spruce, tamarack, white birch, white pinePitcher plants growingNo suitable trees

Plot ID: BAT-N-M29-137 — 1830

Location	Plot Notes
Latitude:45.873697,Longitude:-80.66942,Altitude:191.6,Speed:0.12346666,Accuracy:2.4,Provider:gps,Time:04/23/2015 12:23:31 EDT	Swamp adjacent to rock barrensBlack spruce, tamarack, white pine, juniper, jack pine

Tree ID: 1 — 1878

Species	Pinus banksiana	Location	
DBH (cm)	29	Latitude:45.87369,Longitude:-80.669411,Altitude:191.3,Speed:0.06173333,Accuracy:2.1,Provider:gps,Time:04/23/2015 12:29:54 EDT	
Height (m)	6		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details — 2457

Cavity Height (m): 1

Cavity Notes: At the top of a slope

Plot ID: BAT-N-M29-139 — 1833

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.873801,Longitude:-80.669713,Altitude:192.9,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/23/2015 12:47:12 EDT	Rock barrens adjacent to swampJack pine, juniper, black spruce, poplar

Tree ID	1	1881

Species	Pinus banksiana	Location	
DBH (cm)	28	Latitude:45.8738,Longitude:-80.669734,Altitude:193.2,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/23/2015 12:50:23 EDT	
Height (m)	7		
Canopy Cover (%)	35		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2460
Cavity Height (m)	3	
Cavity Notes		
Small hole 3 cm wide		

Plot ID	BAT-N-M29-148	1836

Location	Plot Notes
Latitude:45.874083,Longitude:-80.66953,Altitude:192.4,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/23/2015 12:58:16 EDT	Rock barrens sloping down into swampJuniper, black spruce, white pine, white birch, jack pineNo suitable trees

Plot ID	BAT-N-M29-160	1839

Location	Plot Notes
Latitude:45.874384,Longitude:-80.669601,Altitude:191.6,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/23/2015 01:12:16 EDT	Rock barrensJuniper, jack pineNo suitable trees

Plot ID	BAT-N-M29-157	1842

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.874356,Longitude:-80.669168,Altitude:185.8,Speed:0.01028889,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:19:01 EDT	Rock barrens adjacent to low swampy areaJack pine, white pine, white birch, juniper,Possible hibernacula in centre of plotNo suitable trees

Plot ID: BAT-N-M-29-163 — 1845

Location	Plot Notes
Latitude:45.874544,Longitude:-80.668889,Altitude:180.1,Speed:0.01028889,Accuracy:1.8,Provider:gps,Time:04/23/2015 01:34:18 EDT	Swamp surrounded by rock barrensWhite pine, white spruce, white birch

Tree ID: 1 — 1884

Species	Pinus banksiana	Location	
DBH (cm)		Latitude:45.87457,Longitude:-80.668707,Altitude:178.5,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:04/23/2015 01:41:36 EDT	
Height (m)	2		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2463

Cavity Height (m): 2

Cavity Notes

Loose bark

Plot ID: BAT-N-M29-164 — 1848

Location	Plot Notes
Latitude:45.87454,Longitude:-80.668512,Altitude:179.7,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/23/2015 01:51:54 EDT	Swamp surrounded by rock barrensJack pine, white pine, white spruceNo suitable trees

Map Number: S-M20 — Field Crew: AMI AND KASEY — 306

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes	
Tablet	AECOM3	Wind Speed (beaufort)	3	Some snow falling at times	
Start Date	4/24/2015 9:07:13 AM	Precipitation	0		
End Date	4/24/2015 11:40:52 AM	Cloud Cover	90.00		

Plot ID	BAT-S-M20-140	1869

Location	Plot Notes
Latitude:45.82611,Longitude:-80.628678,Altitude:188.2,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/24/2015 09:52:06 EDT	Near rock barren and Swamp. Jack pine and white pine. All surrounding trees smaller then 25cm dbh.

Plot ID	BAT-S-M20-137	1872

Location	Plot Notes
Latitude:45.826018,Longitude:-80.628118,Altitude:184.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/24/2015 09:57:29 EDT	Birch polar maple spruce.

Tree ID	1	1890

Species	Populus tremuloides	Location	
DBH (cm)	38	Latitude:45.825971,Longitude:-80.628164,Altitude:185.7,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:00:10 EDT	
Height (m)	17		
Canopy Cover (%)	30		
# of Cavities	4	Notes	
Decay Class	2 Declining tree	Tall poplar with small Woodpecker holes	
Suitable location for audio monitor?	Y		

Cavity Details		2469
Cavity Height (m)	7	

Cavity Notes

Two holes for bats

Cavity Details	2472

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Two holes for bats

Tree ID	2	1893

Species	Acer rubrum	Location	
DBH (cm)	42	Latitude:45.826008,Longitude:-80.627977,Altitude:188.1,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:04/24/2015 10:06:40 EDT	
Height (m)	14		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree	declining maple with Nice Sized cavities for bats.	
Suitable location for audio monitor?	Y		

Cavity Details	2475

Cavity Height (m)	3
Cavity Notes	Cervice

Cavity Details	2478

Cavity Height (m)	6
Cavity Notes	Crevice

Plot ID	BAT-S-M20-114	1875

Location	Plot Notes
Latitude:45.825451,Longitude:-80.628236,Altitude:186.8,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:13:41 EDT	Poplar spruce birch maple

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1896
Species	Populus tremuloides	
DBH (cm)	28	
Height (m)	11	
Canopy Cover (%)	20	
# of Cavities	2	
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.82541,Longitude:-80.628261,Altitude:187.0,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:17:16 EDT	
Notes	Dead poplar with Woodpecker holes	

Cavity Details		2481
Cavity Height (m)	9	
Cavity Notes	Small Woodpecker hole	

Cavity Details		2484
Cavity Height (m)	7	
Cavity Notes	Small hole from branch decay	

Plot ID	BAT-S-M20-80	1878
Location	Latitude:45.824831,Longitude:-80.62852,Altitude:190.3,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:27:49 EDT	
Plot Notes	Spruce maple poplar. The sizable poplars are too healthy. No other trees larger then 25cm dbh. No cavity trees in plot.	

Plot ID	BAT-S-M20-84	1881
Location	Latitude:45.824917,Longitude:-80.628137,Altitude:188.2,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/24/2015 10:32:05 EDT	
Plot Notes	In wet area with birch ash and maple. Good sized poplars in plot but no Holes. All other trees less then 25cm dbh. No cavity trees in plot.	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	S-M23	Field Crew	JOHANNA PEREZ, ADAM MCCELLAND	309

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	2.00	Weather Notes
Tablet	AECOM9	Wind Speed (beaufort)	2	
Start Date	4/24/2015 9:51:01 AM	Precipitation	0	
End Date	4/24/2015 12:37:35 PM	Cloud Cover	75.00	

Plot ID	BAT-S-M23-155	1884

Location	Plot Notes
Latitude:45.826599,Longitude:-80.60811,Altitude:205.9,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/24/2015 09:53:07 EDT	Centroid on rock barren

Tree ID	01	1899

Species	Pinus banksiana	Location	
DBH (cm)	29	Latitude:45.826672,Longitude:-80.608014,Altitude:202.2,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/24/2015 09:57:45 EDT	
Height (m)	14		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2487

Cavity Height (m)	2
Cavity Notes	

Tree ID	02	1902

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Species	Pinus banksiana	Location	
DBH (cm)	37	Latitude:45.826818,Longitude:-80.608201,Altitude:200.3,Speed:0.087455556,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:03:23 EDT	
Height (m)	15		
Canopy Cover (%)	35		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Plot ID	BAT-S-M-23-159		1887
Location		Plot Notes	
Latitude:45.82694,Longitude:-80.607521,Altitude:199.9,Speed:0.08231111,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:07:36 EDT			
Tree ID	01		1905
Species	Pinus banksiana	Location	
DBH (cm)	27	Latitude:45.826859,Longitude:-80.607612,Altitude:202.2,Speed:0.11317778,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:15:01 EDT	
Height (m)	5		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2490
Cavity Height (m)	3		
Cavity Notes			
Crack/split in tree that is somewhat sheltered			
Plot ID	BAT-S-M23-164		1890

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.827253,Longitude:-80.607134,Altitude:198.2,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:20:36 EDT	Partially on rock barren

Plot ID	BAT-S-M23-166	1893

Location	Plot Notes
Latitude:45.82733,Longitude:-80.60642,Altitude:193.8,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:34:25 EDT	

Tree ID	01	1908

Species	Betula papyrifera	Location	
DBH (cm)	36	Latitude:45.827332,Longitude:-80.606474,Altitude:193.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:33:56 EDT	
Height (m)	16		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2493

Cavity Height (m)	7

Cavity Notes

Central cavity

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	02		1911
Species	Populus grandidentata.	Location	
DBH (cm)	29	Latitude:45.827319,Longitude:-80.606325,Altitude:193.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:38:10 EDT	
Height (m)	20		
Canopy Cover (%)	30		
# of Cavities	2	Notes	
Decay Class			
Suitable location for audio monitor?	N		
Cavity Details			2496
Cavity Height (m)	10		
Cavity Notes			
Cavity Details			2499
Cavity Height (m)	10		
Cavity Notes			
Tree ID	03		1914
Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.827311,Longitude:-80.606513,Altitude:191.4,Speed:0.14404444,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:41:21 EDT	
Height (m)	16		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2502

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	Peeling bark

Plot ID	BAT-S-M23-176	1896

Location	Plot Notes
Latitude:45.827829,Longitude:-80.606144,Altitude:196.5,Speed:0.0,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:54:12 EDT	

Map Number	N-M11	Field Crew	KRISTAN WASHBURN AND TOM SHORNEY	312

Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	-2.00	Weather Notes
Tablet	AECOM7	Wind Speed (beaufort)	3	
Start Date	4/24/2015 9:36:41 AM	Precipitation	0	
End Date	4/24/2015 1:30:57 PM	Cloud Cover	5.00	

Plot ID	BAT-N-M11-99	1899

Location	Plot Notes
Latitude:45.870507,Longitude:-80.624989,Altitude:188.3,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/24/2015 09:37:33 EDT	

Plot ID	BAT-N-M12-167	1902

Location	Plot Notes
Latitude:45.874483,Longitude:-80.622103,Altitude:197.6,Speed:0.12346666,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:06:51 EDT	

Plot ID	BAT-N-M12-171	1905

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.87515,Longitude:-80.623083,Altitude:195.5,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:19:56 EDT	

Plot ID	BAT-N-M12-182	1908

Location	Plot Notes
Latitude:45.877151,Longitude:-80.629303,Altitude:178.7,Speed:0.087455556,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:38:40 EDT	

Tree ID	1	1917

Species	Populus tremuloides	Location
DBH (cm)	30	Latitude:45.87715,Longitude:-80.629304,Altitude:178.7,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:39:41 EDT
Height (m)	13	
Canopy Cover (%)	60	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	

Cavity Details	2505

Cavity Height (m)	8

Cavity Notes

Execution Time	9/10/2015 12:20:04 PM

Filter Start Date	4/1/2015
Filter End Date	5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1920
Species	Populus tremuloides	
DBH (cm)	28	
Height (m)	13	
Canopy Cover (%)	30	
# of Cavities	1	
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.87718,Longitude:-80.629372,Altitude:178.6,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:41:13 EDT	
Notes		

Cavity Details		2508
Cavity Height (m)	8	
Cavity Notes		

Plot ID	BAT-N-M15-114	1911
Location	Latitude:45.87138,Longitude:-80.641325,Altitude:178.7,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/24/2015 11:31:29 EDT	
Plot Notes		

Plot ID	BAT-N-M14-70	1914
Location	Latitude:45.866497,Longitude:-80.638272,Altitude:177.5,Speed:0.35496667,Accuracy:1.8,Provider:gps,Time:04/24/2015 11:50:06 EDT	
Plot Notes		

Map Number	WEC-N-17, 18	Field Crew	JASON NORONHA AYESHA PRASAD CALVIN NETTAGOG	315
Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	0.00	Weather Notes
Tablet	AECOM6	Wind Speed (beaufort)	1	
Start Date	4/24/2015 8:25:59 AM	Precipitation	0	
End Date	4/24/2015 11:06:37 AM	Cloud Cover	70.00	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M18-249	1917

Location

Plot Notes

Tree ID	1	1923
Species	Populus tremuloides	Location
DBH (cm)	25	Latitude:45.888259,Longitude:-80.656398,Altitude:182.3,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/24/2015 08:27:36 EDT
Height (m)	16	
Canopy Cover (%)	75	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details 2511

Cavity Height (m)	2

Cavity Notes

Peeling bark

Tree ID	2	1926
Species	Populus tremuloides	Location
DBH (cm)	34	Latitude:45.888027,Longitude:-80.656367,Altitude:182.3,Speed:0.38068888,Accuracy:1.5,Provider:gps,Time:04/24/2015 08:34:27 EDT
Height (m)	10	
Canopy Cover (%)	70	
# of Cavities	1	Notes
Decay Class	3 Very recent dead tree	
Suitable location for audio monitor?	Y	

Cavity Details 2514

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Peeling bark

Tree ID	3		1929
Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.887559,Longitude:-80.65663,Altitude:184.2,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/24/2015 08:43:16 EDT	
Height (m)	17		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	Y		

Cavity Details 2517

Cavity Height (m)	3
Cavity Notes	Peeling bark

Cavity Details 2520

Cavity Height (m)	2
Cavity Notes	

Cavity Details 2523

Cavity Height (m)	8
Cavity Notes	

Plot ID	BAT-N-M18-234	1920

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes

Tree ID	1	1932

Species	Populus tremuloides	Location
DBH (cm)	27	Latitude:45.886662,Longitude:-80.655713,Altitude:188.6,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/24/2015 08:57:29 EDT
Height (m)	20	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	Y	

Cavity Details	2526

Cavity Height (m)	5

Cavity Notes

Plot ID	BAT-N-M17-222	1923

Location	Plot Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	1935
Species	Pinus banksiana	Location
DBH (cm)	35	Latitude:45.884156,Longitude:-80.653384,Altitude:185.5,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/24/2015 09:19:35 EDT
Height (m)	13	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	Y	

Cavity Details	2529
Cavity Height (m)	2
Cavity Notes	Peeling bark

Plot ID	BAT-N-M17-224	1926
Location		Plot Notes

Tree ID	1	1938
Species	Populus tremuloides	Location
DBH (cm)	31	Latitude:45.884416,Longitude:-80.650838,Altitude:184.3,Speed:0.0463,Accuracy:1.75,Provider:gps,Time:04/24/2015 09:49:57 EDT
Height (m)	7	
Canopy Cover (%)	30	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	Y	

Cavity Details	2532

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Peeling bark

Tree ID	2		1941
Species	Populus tremuloides	Location	
DBH (cm)	41	Latitude:45.884283,Longitude:-80.650028,Altitude:186.3,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/24/2015 09:59:48 EDT	
Height (m)	7		
Canopy Cover (%)	75		
# of Cavities	3	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	Y		

Cavity Details	2535
Cavity Height (m)	2
Cavity Notes	
Cavity Details	2538
Cavity Height (m)	4
Cavity Notes	
Cavity Details	2541
Cavity Height (m)	5
Cavity Notes	
Plot ID	BAT-N-M18-223
	1929

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.884263,Longitude:-80.645983,Altitude:184.7,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:19:21 EDT	

Tree ID	1	1944
Species	Populus tremuloides	Location
DBH (cm)	32	Latitude:45.884263,Longitude:-80.645983,Altitude:184.7,Speed:0.16462222,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:19:27 EDT
Height (m)	15	
Canopy Cover (%)	40	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		2544
Cavity Height (m)	6	
Cavity Notes		

Tree ID	2	1947
Species	Populus tremuloides	Location
DBH (cm)	26	Latitude:45.884339,Longitude:-80.645816,Altitude:185.9,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:25:11 EDT
Height (m)	4	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Cavity Details		2547

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	

Plot ID	BAT-N-M18-213	1932

Location	Plot Notes
Latitude:45.882707,Longitude:-80.644162,Altitude:189.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/24/2015 10:46:12 EDT	

Tree ID	1	1950

Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.882753,Longitude:-80.644131,Altitude:189.3,Speed:0.9671556,Accuracy:1.75,Provider:gps,Time:04/24/2015 10:43:09 EDT	
Height (m)	12		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2550

Cavity Height (m)	6
Cavity Notes	

Map Number	S-M23	Field Crew	AMY INGRISELLI NATALIA SIMONOVA		318
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	-3.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	2	Light snow in morning	
Start Date	4/24/2015 10:40:42 AM	Precipitation	3		
End Date	4/24/2015 11:58:55 AM	Cloud Cover	5.00		

Plot ID	BAT-S-M23-178	1935

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.828025,Longitude:-80.605543,Altitude:195.2,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:	Thicket wetland and bedrock outcrops, high Alces alces browse

Tree ID	1	1953

Species	Pinus banksiana	Location	
DBH (cm)	31	Latitude:45.828122,Longitude:-80.605511,Altitude:194.2,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:48:18 EDT	
Height (m)	12		
Canopy Cover (%)	65		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2553
Cavity Height (m)	10	
Cavity Notes	Loose bark providing suitable cover from 2 to 10 m high	

Cavity Details		2556
Cavity Height (m)	11	
Cavity Notes	Cracks in trunk	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1956
Species	Pinus banksiana	Location
DBH (cm)	43	Latitude:45.827989,Longitude:-80.605448,Altitude:196.5,Speed:0.11317778,Accuracy:1.5,Provider:gps,Time:04/24/2015 10:55:27 EDT
Height (m)	18	
Canopy Cover (%)	30	
# of Cavities	2	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details	2559
Cavity Height (m)	10
Cavity Notes	Crack in trunk to central void as well as aged woodpecker cavities

Cavity Details	2562
Cavity Height (m)	12
Cavity Notes	Crack in trunk plus loose bark providing cover from 2 to 22 m high, crack 12 m high

Plot ID	BAT-S-M23-187	1938
Location		Plot Notes
Latitude:45.828588,Longitude:-80.605439,Altitude:189.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:01:15 EDT		Dense shrub layer

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		1959
Species	Betula papyrifera	Location	
DBH (cm)	27	Latitude:45.828558,Longitude:-80.605441,Altitude:194.2,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:11:05 EDT	
Height (m)	6		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2565
Cavity Height (m)	5		
Cavity Notes	Loose bark, inner bark and crack in trunk		
Tree ID	2		1962
Species	Acer rubrum	Location	
DBH (cm)	34	Latitude:45.828515,Longitude:-80.605422,Altitude:197.1,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:19:07 EDT	
Height (m)	22		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2568
Cavity Height (m)	12		
Cavity Notes	Scar in bark and loose bark/crack at old branch locations		
Cavity Details			2571

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	Scar in trunk with gap and loose bark

Plot ID	BAT-S-M23-189	1941

Location	Plot Notes
Latitude:45.828709,Longitude:-80.605119,Altitude:191.2,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:22:39 EDT	Dense shrub layer and bedrock outcrop

Tree ID	1	1965

Species	Acer rubrum	Location
DBH (cm)	34	Latitude:45.828757,Longitude:-80.605238,Altitude:192.6,Speed:0.2778,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:29:51 EDT
Height (m)	18	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	2574
Cavity Height (m)	10
Cavity Notes	Loose, peeling bark from 2-10 m providing suitable cover

Cavity Details	2577
Cavity Height (m)	10
Cavity Notes	Crack in trunk and bark at dead branch

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	1968
Species	Acer rubrum	Location
DBH (cm)	25	Latitude:45.828799,Longitude:-80.605203,Altitude:193.5,Speed:0.2315,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:37:11 EDT
Height (m)	16	
Canopy Cover (%)	65	
# of Cavities	3	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	Y	

Cavity Details	2580
Cavity Height (m)	15
Cavity Notes	Good loose, peeling bark providing cover from 3 to 14 m

Cavity Details	2583
Cavity Height (m)	11
Cavity Notes	Cavity at base of dead branch

Cavity Details	2586
Cavity Height (m)	8
Cavity Notes	Gap/hole at old branch base

Plot ID	BAT-S-M23-195	1944
Location	Latitude:45.829043,Longitude:-80.605168,Altitude:194.6,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:42:38 EDT	Plot Notes: Alder thicket

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M23-205	1947

Location	Plot Notes
Latitude:45.829537,Longitude:-80.604923,Altitude:191.7,Speed:0.58646667,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:50:41 EDT	Alder thicket and bedrock

Tree ID	1	1971

Species	Pinus banksiana	Location
DBH (cm)	31	Latitude:45.829536,Longitude:-80.604902,Altitude:191.8,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:55:01 EDT
Height (m)	4	
Canopy Cover (%)	30	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2589
Cavity Height (m)	4	

Cavity Notes

Cracks in trunk to sheltered, central void, plus loose bark

Tree ID	2	1974

Species	Betula papyrifera	Location
DBH (cm)	39	Latitude:45.829482,Longitude:-80.60492,Altitude:191.5,Speed:0.0,Accuracy:1.5,Provider:gps,Time:04/24/2015 11:57:13 EDT
Height (m)	10	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2592

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Crack/opening in bark and trunk

Cavity Details 2595

Cavity Height (m)	4
Cavity Notes	Cavities in dead branch and at base

Map Number	N-M24, N-M25, N-M21	Field Crew	KASEY MCKENZIE & CASEY O'DRISCOLL	321

Feature ID	N/A	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	3.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	1	
Start Date	4/27/2015 9:45:33 AM	Precipitation	0	
End Date	4/27/2015 3:00:35 PM	Cloud Cover	100.00	

Plot ID	BAT-N-M24-67	1950

Location	Plot Notes
Latitude:45.865337,Longitude:-80.651552,Altitude:190.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/27/2015 10:15:42 EDT	Young jack pine and spruce stand, no cavity trees

Plot ID	BAT-N-M24-56	1953

Location	Plot Notes
Latitude:45.864015,Longitude:-80.650304,Altitude:189.3,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/27/2015 10:26:53 EDT	Young spruce and pine stand, no cavity trees

Plot ID	BAT-N-M23-45	1956

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.859884,Longitude:-80.640674,Altitude:186.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/27/2015 11:30:28 EDT	Mixed wood stand, hardwood dominant

Tree ID	1	1977

Species	Populus tremuloides	Location	
DBH (cm)	29	Latitude:45.859903,Longitude:-80.640897,Altitude:183.4,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/27/2015 11:17:08 EDT	
Height (m)	18		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2598

Cavity Height (m)	10
Cavity Notes	
3x3 inch hole, looks to be in use by bird	

Tree ID	2	1980

Species	Fraxinus nigra	Location	
DBH (cm)	30	Latitude:45.859881,Longitude:-80.640876,Altitude:184.5,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/27/2015 11:21:22 EDT	
Height (m)	17		
Canopy Cover (%)	70		
# of Cavities	8	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2601

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Small woodpecker holes starting at 8m all the way up tree

Plot ID	BAT-N-M25-14	1959

Location	Plot Notes
Latitude:45.856385,Longitude:-80.646964,Altitude:187.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:35:40 EDT	On rock barren, no cavity trees

Plot ID	BAT-N-M25-16	1962

Location	Plot Notes
Latitude:45.85647,Longitude:-80.647628,Altitude:190.5,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/27/2015 12:44:58 EDT	In between rock barren. Young Jack Pine.

Plot ID	BAT-N-M25-11	1965

Location	Plot Notes
Latitude:45.856208,Longitude:-80.647907,Altitude:190.7,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/27/2015 12:51:03 EDT	On rock barren. Very few small Jack Pine.

Plot ID	BAT-N-M25-15	1968

Location	Plot Notes
Latitude:45.856438,Longitude:-80.648095,Altitude:184.7,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/27/2015 12:55:13 EDT	In between rock barren. Mature spruce and pine mix. No cavities.

Plot ID	BAT-N-M25-20	1971

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.8562,Longitude:-80.64829,Altitude:188.3,Speed:0.09774444,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:03:58 EDT	On rock barren. Mature mixed wood stand. No cavities.

Plot ID	BAT-N-M25-13	1974

Location	Plot Notes
Latitude:45.856348,Longitude:-80.648875,Altitude:185.3,Speed:0.3241,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:12:30 EDT	In bog. Mature mixed wood stand.

Tree ID	1	1983

Species	Picea glauca	Location
DBH (cm)	30	Latitude:45.856348,Longitude:-80.648877,Altitude:185.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:13:03 EDT
Height (m)	22	
Canopy Cover (%)	15	
# of Cavities	1	Notes
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Cavity Details 2604

Cavity Height (m)	10

Cavity Notes

Smaller rectangular hole 2Ã?4 inches just below dead branch.

Plot ID	BAT-N-M25-09	1977

Location	Plot Notes
Latitude:45.856152,Longitude:-80.649294,Altitude:185.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/27/2015 01:27:45 EDT	Between rock barren. Mature pine stand. No cavities.

Plot ID	BAT-N-M25-07	1980

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.856102,Longitude:-80.650131,Altitude:184.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:34:35 EDT	On rock barren. Some mature pine present. No cavities.

Plot ID: BAT-N-M25-17 — 1983

Location	Plot Notes
Latitude:45.856582,Longitude:-80.650362,Altitude:183.1,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:43:19 EDT	Between rock barren. Immature spruce stand. No cavities.

Plot ID: BAT-N-M25-4 — 1986

Location	Plot Notes
Latitude:45.855947,Longitude:-80.650665,Altitude:183.2,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:50:54 EDT	On edge of rock barren, no cavity trees

Plot ID: BAT-N-M25-6 — 1989

Location	Plot Notes
Latitude:45.856032,Longitude:-80.651194,Altitude:183.6,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/27/2015 01:55:34 EDT	Spruce and jack pine stand on edge of rock barren

Plot ID: BAT-N-M25-19 — 1992

Location	Plot Notes
Latitude:45.856866,Longitude:-80.651198,Altitude:184.8,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:04/27/2015 02:07:53 EDT	Pine and spruce stand with no cavity trees

Map Number: N-M25, N-M33, N-M34 — Field Crew: JOHANNA. JASON — 324

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/27/2015 10:30:18 AM	Precipitation	0		
End Date	4/27/2015 2:50:27 PM	Cloud Cover	50.00		

Plot ID	BAT-N-M33-55	1995

Location	Plot Notes
Latitude:45.863455,Longitude:-80.669816,Altitude:178.4,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:31:39 EDT	

Tree ID	1	1986

Species	Pinus strobus	Location	
DBH (cm)	31	Latitude:45.86354,Longitude:-80.670205,Altitude:183.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:35:47 EDT	
Height (m)	9		
Canopy Cover (%)	35		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2607

Cavity Height (m)	8

Cavity Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		1989
Species	Pinus resinosa	Location	
DBH (cm)	45	Latitude:45.863642,Longitude:-80.670642,Altitude:186.4,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:45:14 EDT	
Height (m)	19		
Canopy Cover (%)	70		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2610
Cavity Height (m)	5		
Cavity Notes			

Tree ID	3		1992
Species	Pinus strobus	Location	
DBH (cm)	26	Latitude:45.863736,Longitude:-80.670806,Altitude:186.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:51:57 EDT	
Height (m)	9		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2613
Cavity Height (m)	4		
Cavity Notes	Peeling bark		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		1995
Species	Acer rubrum	Location	
DBH (cm)	33	Latitude:45.863817,Longitude:-80.670667,Altitude:186.6,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:55:43 EDT	
Height (m)	15		
Canopy Cover (%)	95		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2616
Cavity Height (m)	6		
Cavity Notes			
Cavity Details			2619
Cavity Height (m)	1		
Cavity Notes			
Tree ID	5		1998
Species	Pinus resinosa	Location	
DBH (cm)	57	Latitude:45.863755,Longitude:-80.670904,Altitude:182.9,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:02:09 EDT	
Height (m)	6		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	Y		
Cavity Details			2622

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	

Tree ID	6		2001
Species	Pinus strobus	Location	
DBH (cm)	38	Latitude:45.863992,Longitude:-80.670875,Altitude:186.3,Speed:0.20577778,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:09:26 EDT	
Height (m)	20		
Canopy Cover (%)	20		
# of Cavities	3	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2625
Cavity Height (m)	6
Cavity Notes	

Cavity Details	2628
Cavity Height (m)	7
Cavity Notes	

Cavity Details	2631
Cavity Height (m)	5
Cavity Notes	

Plot ID	BAT-N-M34-64	1998

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.864633,Longitude:-80.674045,Altitude:191.3,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:42:10 EDT	No suitable trees

Plot ID BAT-N-M34-66 2001

Location	Plot Notes
Latitude:45.865084,Longitude:-80.674165,Altitude:193.2,Speed:0.4732889,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:49:25 EDT	No suitable trees

Plot ID BAT-N-M34-65 2004

Location	Plot Notes
Latitude:45.86486,Longitude:-80.674373,Altitude:191.8,Speed:0.14404444,Accuracy:1.5,Provider:gps,Time:04/27/2015 11:53:57 EDT	No suitable trees

Plot ID BAT-N-M34-63 2007

Location	Plot Notes
Latitude:45.864609,Longitude:-80.674639,Altitude:191.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/27/2015 12:00:35 EDT	No suitable trees

Plot ID BAT-N-M34-58 2010

Location	Plot Notes
Latitude:45.864595,Longitude:-80.674646,Altitude:191.3,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/27/2015 12:01:32 EDT	No suitable trees

Plot ID BAT-N-M34-57 2013

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.864122,Longitude:-80.674231,Altitude:191.3,Speed:0.11832222,Accuracy:1.5,Provider:gps,Time:04/27/2015 12:20:54 EDT	No suitable trees

Plot ID: BAT-N-M34-59 — 2016

Location	Plot Notes
Latitude:45.864126,Longitude:-80.674215,Altitude:191.2,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/27/2015 12:22:04 EDT	

Plot ID: BAT-N-M25-2 — 2019

Location	Plot Notes
Latitude:45.855535,Longitude:-80.65431,Altitude:179.9,Speed:0.14918889,Accuracy:1.5,Provider:gps,Time:04/27/2015 02:20:39 EDT	

Tree ID: 1 — 2004

Species	Pinus strobus	Location	
DBH (cm)	29	Latitude:45.855597,Longitude:-80.654283,Altitude:178.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/27/2015 02:22:20 EDT	
Height (m)	18		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details — 2634

Cavity Height (m): 4

Cavity Notes: Peeling bark

Map Number: N-M35, N-M36 — Field Crew: ADAM MCCLELLAND, NATALIYA SIMONOVA — 327

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	4	
Start Date	4/27/2015 10:44:27 AM	Precipitation	0	
End Date	4/27/2015 2:51:42 PM	Cloud Cover	40.00	

Plot ID	BAT-N-M35-54	2022

Location	Plot Notes
Latitude:45.861769,Longitude:-80.679974,Altitude:186.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/27/2015 10:59:38 EDT	Conifer swamp surrounded by rock barrensJack pine, White pine, spruce, poplar, tamarack, juniperNo suitable trees

Plot ID	BAT-N-M35-53	2025

Location	Plot Notes
Latitude:45.861341,Longitude:-80.678859,Altitude:187.6,Speed:0.087455556,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:12:09 EDT	Conifer swamp surrounded by rock barrensJack pine, white pine, spruce, tamarack, juniperNo suitable trees

Plot ID	BAT-N-M35-42	2028

Location	Plot Notes
Latitude:45.859841,Longitude:-80.677796,Altitude:188.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:32:10 EDT	Conifer swamp surrounded by rock barrensJack pine, white pine, tamarack, spruce, juniperNo suitable trees

Plot ID	BAT-N-M35-39	2031

Location	Plot Notes
Latitude:45.859583,Longitude:-80.677687,Altitude:193.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/27/2015 11:42:27 EDT	Rock barren bordering conifer swampJack pine, spruce, juniper

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2007
Species	Pinus banksiana	Location
DBH (cm)	30	
Height (m)	12	
Canopy Cover (%)	75	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2637
Cavity Height (m)	3
Cavity Notes	Hole in trunk 5 cm wide

Cavity Details	2640
Cavity Height (m)	6
Cavity Notes	Peeling bark

Plot ID	BAT-N-M35-38	2034
Location	Latitude:45.85934,Longitude:-80.677442,Altitude:190.4,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/27/2015 12:22:15 EDT	Plot Notes: Conifer swampTamarack, jack pine, spruce, white pine

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2010
Species	Pinus banksiana	Location
DBH (cm)	27	Latitude:45.859402,Longitude:-80.677521,Altitude:189.9,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:27:01 EDT
Height (m)	16	
Canopy Cover (%)	65	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2643
Cavity Height (m)	3
Cavity Notes	Hole in tree 10 cm wide

Plot ID	BAT-N-M35-36	2037
Location	Latitude:45.859135,Longitude:-80.677607,Altitude:190.9,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:34:05 EDT	Plot Notes: Conifer swamp bordering rock barrensSpruce, jack pine, tamarack, white birchNo suitable trees

Plot ID	BAT-N-M35-35	2040
Location	Latitude:45.858934,Longitude:-80.677304,Altitude:191.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:40:07 EDT	Plot Notes: Rock barren bordering conifer swampSpruce, juniper, jack pine, white birchNo suitable trees

Plot ID	BAT-N-M35-30	2043
Location	Latitude:45.857944,Longitude:-80.678024,Altitude:189.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/27/2015 12:54:57 EDT	Plot Notes: Conifer swampSpruce, tamarack, juniper, white pine, white birchNo suitable trees

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M36-26	2046

Location	Plot Notes
Latitude:45.85759,Longitude:-80.676334,Altitude:190.7,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:12:19 EDT	Conifer swamp bordering rock barrensSpruce, juniper, jack pine, tamarack, white birchNo suitable trees

Plot ID	BAT-N-M35-28	2049

Location	Plot Notes
Latitude:45.857858,Longitude:-80.675576,Altitude:186.9,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:23:18 EDT	Conifer swamp bordering rock barrensSpruce, tamarack, jack pine, white birch, juniper

Tree ID	1	2013

Species	Betula papyrifera	Location	
DBH (cm)	27	Latitude:45.857674,Longitude:-80.675309,Altitude:189.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:29:03 EDT	
Height (m)	16		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2646
Cavity Height (m)	5	

Cavity Notes

Small hole on underside of branch 4 cm wide

Plot ID	BAT-N-M35-32	2052

Location	Plot Notes
Latitude:45.858344,Longitude:-80.674681,Altitude:186.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:54:38 EDT	Conifer swamp bordering rock barrensSpruce, tamarack, white birch

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2016
Species	Larix laricina	Location	
DBH (cm)	34	Latitude:45.858174,Longitude:-80.674925,Altitude:185.7,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/27/2015 01:44:58 EDT	
Height (m)	17		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		
Cavity Details			2649
Cavity Height (m)	2		
Cavity Notes	Hole in trunk 12 cm wide; trunk hollow		
Cavity Details			2652
Cavity Height (m)	4		
Cavity Notes	Hole in branch 5 cm wide		
Tree ID	2		2019
Species	Pinus banksiana	Location	
DBH (cm)	27	Latitude:45.85861,Longitude:-80.674321,Altitude:186.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/27/2015 02:06:20 EDT	
Height (m)	16		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2655

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	14
Cavity Notes	Small hole near top of tree

Cavity Details 2658

Cavity Height (m)	14
Cavity Notes	Small hole at fork in tree

Plot ID	BAT-N-M35-52		2055
Location	Latitude:45.861272,Longitude:-80.671969,Altitude:189.0,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/27/2015 02:34:39 EDT	Plot Notes	Conifer swamp bordering rock barrensMuskegSpruce, tamarack, juniper, white birch
Map Number	N-M48, N-M49, N-M50	Field Crew	CASEY O'DRISCOLL & KASEY MCKENZIE 330

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	7.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	2		
Start Date	4/28/2015 8:00:41 AM	Precipitation	0		
End Date	4/28/2015 3:00:56 PM	Cloud Cover	10.00		

Plot ID	BAT-N-M50-118		2058
Location	Latitude:45.871702,Longitude:-80.723105,Altitude:178.2,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/28/2015 09:42:49 EDT	Plot Notes	Mixed wood forest

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2022
Species	Populus tremuloides	Location	
DBH (cm)	37	Latitude:45.872092,Longitude:-80.723242,Altitude:170.2,Speed:0.051444445,Accuracy:2.4,Provider:gps,Time:04/28/2015 09:32:10 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2661
Cavity Height (m)	9	
Cavity Notes	3 smal cavities starting at 9m up from woodpeckers	

Plot ID	BAT-N-M50-98		2061
Location	Latitude:45.869976,Longitude:-80.722901,Altitude:178.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/28/2015 10:19:01 EDT	Plot Notes	Jack pine, birch, and thicket

Plot ID	BAT-N-M50-76		2064
Location	Latitude:45.868675,Longitude:-80.721709,Altitude:176.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/28/2015 10:33:13 EDT	Plot Notes	Jack pine, birch, bog

Plot ID	BAT-N-M49-136		2067
Location	Latitude:45.873733,Longitude:-80.721142,Altitude:170.8,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/28/2015 10:54:34 EDT	Plot Notes	Between rock barren. Mature pine stand.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M49-127	2070
Location	Plot Notes	
Latitude:45.873491,Longitude:-80.720866,Altitude:178.9,Speed:0.08231111,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:59:08 EDT	In alder swamp. No cavities.	

Plot ID	BAT-N-M49-125	2073
Location	Plot Notes	
Latitude:45.873477,Longitude:-80.720417,Altitude:179.9,Speed:0.13375555,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:04:13 EDT	On edge of rock barren and alder swamp. No cavities.	

Plot ID	BAT-N-M49-133	2076
Location	Plot Notes	
Latitude:45.873723,Longitude:-80.720647,Altitude:177.8,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:08:04 EDT	On small rock barren with small mature pine stand. Surrounded by swamp.	

Plot ID	BAT-N-M49-131	2079
Location	Plot Notes	
Latitude:45.873739,Longitude:-80.72012,Altitude:176.7,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/28/2015 11:14:42 EDT	On edge of swamp. Mature mixed wood stand. No cavities.	

Plot ID	BAT-N-M49-128	2082
Location	Plot Notes	
Latitude:45.873555,Longitude:-80.719785,Altitude:183.1,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:22:03 EDT	Between rock barren.. Healthy aspens with no cavities. Mature birch and pine stand.	

Plot ID	BAT-N-M49-124	2085

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.873452,Longitude:-80.719469,Altitude:179.8,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:28:02 EDT	On rock barren. Mature pine and spruce stand. No cavities.

Plot ID	BAT-N-M49-123	2088

Location	Plot Notes
Latitude:45.873419,Longitude:-80.718414,Altitude:180.3,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:34:46 EDT	Between rock barren. Mature pine and spruce stand.No cavities.

Plot ID	BAT-N-M49-121	2091

Location	Plot Notes
Latitude:45.872531,Longitude:-80.717564,Altitude:181.9,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:43:36 EDT	Edge of rock barren into boggy area. Mixed mature and immature spruce and pine stand. No cavities.

Plot ID	BAT-N-M48-108	2094

Location	Plot Notes
Latitude:45.871534,Longitude:-80.711073,Altitude:180.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:50:20 EDT	On rock barren. Mature pine and spruce stand. No cavities.

Plot ID	BAT-N-M48-109	2097

Location	Plot Notes
Latitude:45.871524,Longitude:-80.710683,Altitude:183.1,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:59:04 EDT	On edge of rock barren. Thick immature spruce stand. No cavities.

Plot ID	BAT-N-M48-107	2100

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.871308,Longitude:-80.711134,Altitude:183.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:07:48 EDT	Edge of rock barren in boggy area. Think immature spruce stand. No cavities.

Plot ID	BAT-N-M48-103	2103

Location	Plot Notes
Latitude:45.871084,Longitude:-80.710904,Altitude:177.6,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:16:30 EDT	On rock barren

Plot ID	BAT-N-M48-105	2106

Location	Plot Notes
Latitude:45.871248,Longitude:-80.710617,Altitude:179.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/28/2015 01:19:47 EDT	Edge of rock barren, no trees big enough

Plot ID	BAT-N-M48-106	2109

Location	Plot Notes
Latitude:45.87129,Longitude:-80.710284,Altitude:177.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:25:03 EDT	Young black spruce stand, all trees under 25cm

Plot ID	BAT-N-M48-102	2112

Location	Plot Notes
Latitude:45.870988,Longitude:-80.710449,Altitude:178.1,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:28:40 EDT	Black spruce stand, no cavities

Plot ID	BAT-N-M48-101	2115

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.870814,Longitude:-80.710221,Altitude:178.0,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:33:07 EDT	

Plot ID	BAT-N-M48-97	2118

Location	Plot Notes
Latitude:45.870146,Longitude:-80.710287,Altitude:181.5,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:40:06 EDT	Jack pine, birch, spruce, no cavities

Plot ID	BAT-N-M48-91	2121

Location	Plot Notes
Latitude:45.869433,Longitude:-80.709764,Altitude:184.3,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:45:13 EDT	Mixed wood stand, most <25 dbh

Plot ID	BAT-N-M48-74	2124

Location	Plot Notes
Latitude:45.868228,Longitude:-80.70813,Altitude:180.3,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:52:27 EDT	

Tree ID	1	2025

Species	Populus tremuloides	Location	
DBH (cm)	30	Latitude:45.868228,Longitude:-80.70813,Altitude:180.3,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:52:38 EDT	
Height (m)	18		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2664

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	First at 8m, 2nd at 9m

Map Number	N-M46	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA	333

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	1	
Start Date	4/28/2015 9:51:57 AM	Precipitation	0	
End Date	4/28/2015 11:52:00 AM	Cloud Cover	99.00	

Plot ID	BAT-N-M46-48	2127

Location	Plot Notes
Latitude:45.860566,Longitude:-80.699067,Altitude:185.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/28/2015 09:55:27 EDT	Conifer swamp bordering rock barrensSpruce, jack pine, tamarackNo suitable trees

Plot ID	BAT-N-M46-37	2130

Location	Plot Notes
Latitude:45.859238,Longitude:-80.69832,Altitude:188.8,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:08:58 EDT	Rock barren surrounded by conifer swampSpruce, jack pine, tamarack, white birch, white pine

Tree ID	1	2028

Species	Pinus strobus	Location	
DBH (cm)	38	Latitude:45.859122,Longitude:-80.698372,Altitude:190.5,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:12:49 EDT	
Height (m)	11		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2667

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Peeling bark

Tree ID	2		2031
Species	Pinus banksiana	Location	
DBH (cm)	31	Latitude:45.858836,Longitude:-80.698215,Altitude:189.7,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:23:48 EDT	
Height (m)	10		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details 2670

Cavity Height (m)	5
Cavity Notes	Narrow knot in tree 15 cm vertical

Plot ID	BAT-N-M46-34		2133
Location		Plot Notes	
Latitude:45.858797,Longitude:-80.698094,Altitude:186.7,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/28/2015 10:34:49 EDT		Rock barren bordering swampJack pine, white pine, white birch, spruce, red mapleNo suitable trees	

Plot ID	BAT-N-M46-33		2136
Location		Plot Notes	
Latitude:45.858691,Longitude:-80.696336,Altitude:191.0,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/28/2015 10:46:58 EDT		Conifer swamp bordering rock barrenTamarack, spruce, white birch, jack pine	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2034
Species	Pinus banksiana	
DBH (cm)	27	
Height (m)	19	
Canopy Cover (%)	100	
# of Cavities	1	
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.858895,Longitude:-80.696388,Altitude:191.2,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:04/28/2015 11:05:01 EDT	
Notes		

Cavity Details		2673
Cavity Height (m)	2	
Cavity Notes	Hole in tree 10 cm wide	

Plot ID	BAT-N-M46-23	2139
Location	Latitude:45.857543,Longitude:-80.697331,Altitude:191.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/28/2015 11:22:51 EDT	
Plot Notes	Small swamp surrounded by rock barrensJack pine, spruce, white birch, tamarackNo suitable trees	

Plot ID	BAT-N-M46-27	2142
Location	Latitude:45.857681,Longitude:-80.695135,Altitude:190.5,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:04/28/2015 11:35:09 EDT	
Plot Notes	Mix of rock barren and conifer swampJack pine, juniper, spruce, tamarack, white birchNo suitable trees	

Map Number	N-M41	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA		336
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	4/28/2015 12:33:26 PM	Precipitation	0		
End Date	4/28/2015 2:53:21 PM	Cloud Cover	0.00		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-N-M41-5	2145

Location	Plot Notes
Latitude:45.856109,Longitude:-80.689178,Altitude:192.8,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/28/2015 12:37:14 EDT	Conifer swamp bordering rock barrensSpruce, tamarack, jack pine, white birchNo suitable trees

Plot ID	BAT-N-M41-1	2148

Location	Plot Notes
Latitude:45.855708,Longitude:-80.689505,Altitude:192.1,Speed:0.1389,Accuracy:1.5,Provider:gps,Time:04/28/2015 12:45:33 EDT	Small rock barren surrounded by swampJack pine, spruce, white birchNo suitable trees

Plot ID	BAT-N-M41-0	2151

Location	Plot Notes
Latitude:45.855664,Longitude:-80.688756,Altitude:189.0,Speed:0.041155554,Accuracy:1.75,Provider:gps,Time:04/28/2015 12:53:41 EDT	Conifer swampSpruce, tamarack, jack pineNo suitable trees

Plot ID	BAT-N-M41-3	2157

Location	Plot Notes
Latitude:45.855864,Longitude:-80.687572,Altitude:191.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:14:40 EDT	Conifer swampTamarack, spruce, jack pineNo suitable trees

Plot ID	BAT-N-M41-8	2169

Location	Plot Notes
Latitude:45.856219,Longitude:-80.687322,Altitude:186.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:23:03 EDT	Conifer swampSpruce, tamarack, dogwoodNo suitable trees

Plot ID	BAT-N-M41-24	2175

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.857613,Longitude:-80.687491,Altitude:188.7,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/28/2015 01:39:23 EDT	Conifer swampSpruce, dogwood, white birchNo suitable trees

Plot ID	BAT-N-M41-22	2181

Location	Plot Notes
Latitude:45.857436,Longitude:-80.686919,Altitude:188.4,Speed:0.10803334,Accuracy:1.5,Provider:gps,Time:04/28/2015 01:50:54 EDT	Conifer swamp, alder thicket in plotSpruce, tamarack, alder, white birch

Tree ID	1	2037

Species	Larix laricina	Location	
DBH (cm)	33		
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details 2676

Cavity Height (m)	6

Cavity Notes

Peeling bark

Plot ID	BAT-N-M41-21	2196

Location	Plot Notes
Latitude:45.857068,Longitude:-80.686691,Altitude:189.6,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/28/2015 02:12:45 EDT	Conifer swampSpruce, tamarack, dogwoodNo suitable trees

Plot ID	BAT-N-M41-18	2205

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.856767,Longitude:-80.685523,Altitude:192.4,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 02:25:26 EDT	Conifer swamp bordering rock barrensJack pine, spruce, white birchNo suitable trees

Plot ID: BAT-N-M41-12 — 2211

Location	Plot Notes
Latitude:45.856379,Longitude:-80.685993,Altitude:188.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 02:52:27 EDT	Swamp; dogwood thicketDogwood, tamarack, spruceNo suitable trees

Map Number: N-M37, N-M38, N-M39, N-M43 — Field Crew: JOHANNA PEREZ, JASON NORONHA — 339

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	1		
Start Date	4/28/2015 9:45:18 AM	Precipitation	0		
End Date	4/28/2015 4:12:15 PM	Cloud Cover	0.00		

Plot ID: BAT-N-M39-186 — 2154

Location	Plot Notes
Latitude:45.879784,Longitude:-80.692647,Altitude:185.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 09:47:14 EDT	Black spruce and Sphagnum moss. Also labelled bat-n-m40-187

Plot ID: BAT-N-M38-122 — 2160

Location	Plot Notes
Latitude:45.872729,Longitude:-80.689453,Altitude:180.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 10:37:47 EDT	Alder swamp and small black spruce, tamarack, jack pine

Plot ID: BAT-N-M37-73 — 2163

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.867087,Longitude:-80.685794,Altitude:184.6,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/28/2015 11:20:15 EDT	Black spruce bog, some jack pine

Plot ID	BAT-N-M43-47	2166

Location	Plot Notes
Latitude:45.860369,Longitude:-80.688866,Altitude:186.4,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:24:04 EDT	Black spruce treed bog

Plot ID	BAT-N-M43-50	2172

Location	Plot Notes
Latitude:45.860617,Longitude:-80.688713,Altitude:183.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:33:47 EDT	Some rock barren, mostly small small black spruce or jack pine, no large trees with cavities

Plot ID	BAT-N-M43-46	2178

Location	Plot Notes
Latitude:45.860232,Longitude:-80.689066,Altitude:184.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:41:59 EDT	Black spruce treed bog

Plot ID	BAT-N-M43-43	2184

Location	Plot Notes
Latitude:45.859921,Longitude:-80.689055,Altitude:179.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:48:22 EDT	Black spruce treed bog

Plot ID	BAT-N-M43-40	2187

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.859734,Longitude:-80.689107,Altitude:181.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/28/2015 12:51:13 EDT	Partially on rock barren. Suitable dbh jack pine but no cavities

Plot ID	BAT-N-M43-44	2190

Location	Plot Notes
Latitude:45.860064,Longitude:-80.688746,Altitude:180.1,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/28/2015 12:57:00 EDT	Black spruce treed bog, pitcher plants

Plot ID	BAT-N-M43-49	2193

Location	Plot Notes
Latitude:45.860642,Longitude:-80.689956,Altitude:180.0,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:08:20 EDT	Black spruce. Jack pine. Boggy site

Plot ID	BAT-N-M43-51	2199

Location	Plot Notes
Latitude:45.860727,Longitude:-80.690469,Altitude:180.7,Speed:0.08231111,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:16:19 EDT	

Plot ID	BAT-N-M43-62	2202

Location	Plot Notes
Latitude:45.864623,Longitude:-80.692496,Altitude:178.2,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:38:15 EDT	Sparsely tree bog, stunted black spruce

Plot ID	BAT-N-M44-69	2208

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.866563,Longitude:-80.695573,Altitude:180.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/28/2015 01:56:29 EDT	Jack pine, rock barren interspersed with bog

Plot ID: BAT-N-M44-75 — 2214

Location	Plot Notes
Latitude:45.868208,Longitude:-80.696055,Altitude:181.8,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/28/2015 02:06:24 EDT	Black spruce treed bog

Plot ID: BAT-N-M44-96 — 2217

Location	Plot Notes
Latitude:45.869787,Longitude:-80.699242,Altitude:181.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/28/2015 02:18:53 EDT	

Map Number: S-M36 — Field Crew: NATALIYA SIMONOVA ADAM MCCLELLAND — 342

Feature ID	BAT-S-M36-62	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	0	Forecast	
Start Date	4/29/2015 11:47:28 AM	Precipitation	0		
End Date	4/29/2015 3:02:16 PM	Cloud Cover	0.00		

Plot ID: BAT-S-M36-62 — 2220

Location	Plot Notes
Latitude:45.824263,Longitude:-80.662532,Altitude:200.8,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:04/29/2015 11:49:44 EDT	Swamp area community with Spruce sp Pinus strobus Alder sp Betula papyrifera No suitable trees with cavity

Plot ID: BAT-S-M36-58 — 2223

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824047,Longitude:-80.662537,Altitude:171.3,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/29/2015 12:08:13 EDT	Swamp treed plot with Populus tremuloides Spruse sp and Alder

Tree ID	1	2040

Species	Fraxinus pensylvanica	Location	
DBH (cm)	31	Latitude:45.823935,Longitude:-80.662497,Altitude:178.1,Speed:0.16462222,Accuracy:1.8,Provider:gps,Time:04/29/2015 12:13:52 EDT	
Height (m)	6		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2679
Cavity Height (m)	5	
Cavity Notes		
Cavity from broken trunk and lifting bark		

Plot ID	BAT-S-M36-51	2226

Location	Plot Notes
Latitude:45.823818,Longitude:-80.661732,Altitude:180.8,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/29/2015 12:28:40 EDT	Bedrock open area community with Pinus strobus and Pinus banksiana and. Juniperus No suitable trees with cavity

Plot ID	BAT-S-M36-42	2229

Location	Plot Notes
Latitude:45.823459,Longitude:-80.661094,Altitude:181.7,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:04/29/2015 12:43:11 EDT	Treed plot with conifer community. Community with Pinus resinosa, Pinus banksiana, Picea glauca, Populus tremuloides. Pinus resinosa has dbh 52.0 cm, height 30.0m

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2043
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.823513,Longitude:-80.661067,Altitude:185.4,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/29/2015 12:55:44 EDT	
Height (m)	22		
Canopy Cover (%)	25		
# of Cavities	2	Notes	
Decay Class			
Suitable location for audio monitor?	N		

Cavity Details	2682
Cavity Height (m)	7
Cavity Notes	Cavity from crack bark deep

Cavity Details	2685
Cavity Height (m)	15
Cavity Notes	Cavity from cracked bark

Plot ID	BAT-S-M36-46		2232
Location		Plot Notes	
Latitude:45.823661,Longitude:-80.660544,Altitude:178.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/29/2015 01:03:40 EDT		Plot with Populus tremuloides, Pinus strobus, Pinus banksiana, Picea sp	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2046
Species	Pinus strobus	Location
DBH (cm)	28	Latitude:45.823534,Longitude:-80.6607,Altitude:183.6,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:04/29/2015 01:08:33 EDT
Height (m)	13	
Canopy Cover (%)	45	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2688
Cavity Height (m)	4	
Cavity Notes	Old hole cavity from Woodpecker activities	

Cavity Details		2691
Cavity Height (m)	3	
Cavity Notes	Cavity from lifting bark	

Plot ID	BAT-S-M36-50	2235
Location	Latitude:45.823737,Longitude:-80.660089,Altitude:188.0,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:04/29/2015 01:22:08 EDT	Plot Notes: Bedrock open area with Pinus banksiana, Juniperus sp, Picea spNo suitable trees with cavity

Plot ID	BAT-S-M36-56	2238
Location	Latitude:45.823967,Longitude:-80.660297,Altitude:186.8,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:04/29/2015 01:31:03 EDT	Plot Notes: Treed plot with Populus tremuloides, Picea sp, Pinus strobus, ,Juniperus No suitable trees with cavity

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M36-39	2241

Location	Plot Notes
Latitude:45.822242,Longitude:-80.667621,Altitude:188.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/29/2015 02:57:51 EDT	Swamp area between bedrock with Picea sp, Pinus strobus, Pinus banksiana, Betula papyrifera, Larix sp, No suitable trees with cavity

Map Number	WEC-N-43	Field Crew	TOM SHORNEY, OLGA HROPACH	345

Feature ID	WEC-N-M43-41	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	14.00	Weather Notes
Tablet	AECOM13	Wind Speed (beaufort)	1	
Start Date	4/29/2015 1:07:12 PM	Precipitation	0	
End Date	4/29/2015 5:18:35 PM	Cloud Cover	5.00	

Plot ID	BAT-N-M43-41	2244

Location	Plot Notes
Latitude:45.859869,Longitude:-80.688878,Altitude:183.6,Speed:0.09774444,Accuracy:2.25,Provider:gps,Time:04/29/2015 01:08:12 EDT	Within swamp, all black spruce are small dbh

Plot ID	BAT-N-M25-10	2247

Location	Plot Notes
Latitude:45.856183,Longitude:-80.648334,Altitude:187.7,Speed:0.15947777,Accuracy:1.8,Provider:gps,Time:04/29/2015 02:50:22 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2049
Species	Pinus strobus	Location	
DBH (cm)	51	Latitude:45.856277,Longitude:-80.648355,Altitude:194.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/29/2015 02:53:36 EDT	
Height (m)	12		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details			2694
Cavity Height (m)	4		
Cavity Notes	Space between bark. Very linear with roughly 3 cm of space.		

Map Number	S-M37, S-M38	Field Crew	JOHANNA. JASON		348
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0		
Start Date	4/29/2015 11:11:16 AM	Precipitation	0		
End Date	4/29/2015 2:25:08 PM	Cloud Cover	40.00		

Plot ID	BAT-S-M38-41		2250
Location		Plot Notes	
Latitude:45.822618,Longitude:-80.673607,Altitude:176.7,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:11:00 EDT		Lots of Woodpecker damage. Lots of dead trees	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2052
Species	White birch	Location	
DBH (cm)	25	Latitude:45.822706,Longitude:-80.673515,Altitude:181.9,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/29/2015 10:51:24 EDT	
Height (m)	10		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2697
Cavity Height (m)	5		
Cavity Notes			
Tree ID	2		2055
Species	White birch	Location	
DBH (cm)	30	Latitude:45.822707,Longitude:-80.673445,Altitude:179.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/29/2015 10:56:08 EDT	
Height (m)	8		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2700
Cavity Height (m)	7		
Cavity Notes			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		2058
Species	White birch	Location	
DBH (cm)	28	Latitude:45.822705,Longitude:-80.67343,Altitude:181.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/29/2015 10:59:46 EDT	
Height (m)	8		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2703
Cavity Height (m)	6		
Cavity Notes			
Tree ID	4		2061
Species	Red maple	Location	
DBH (cm)	26	Latitude:45.822645,Longitude:-80.673318,Altitude:184.0,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:01:13 EDT	
Height (m)	12		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2706
Cavity Height (m)	1		
Cavity Notes			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5		2064
Species	Red maple	Location	
DBH (cm)	26	Latitude:45.822645,Longitude:-80.673309,Altitude:183.6,Speed:0.10288889,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:02:59 EDT	
Height (m)	15		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2709
Cavity Height (m)	2		
Cavity Notes			
Tree ID	6		2067
Species	White birch	Location	
DBH (cm)	28	Latitude:45.822571,Longitude:-80.67349,Altitude:179.4,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:07:13 EDT	
Height (m)	5		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2712
Cavity Height (m)	3		
Cavity Notes			
Plot ID	BAT-S-M38-38		2253

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.82149,Longitude:-80.674723,Altitude:182.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:31:42 EDT	

Tree ID	1		2070
Species	Large tooth aspen	Location	
DBH (cm)	25	Latitude:45.821689,Longitude:-80.674536,Altitude:179.8,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:25:14 EDT	
Height (m)	15		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2715
Cavity Height (m)	3		
Cavity Notes			

Tree ID	2		2073
Species	Large tooth aspen	Location	
DBH (cm)	43	Latitude:45.821649,Longitude:-80.67462,Altitude:179.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:28:58 EDT	
Height (m)	12		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2718

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	

Tree ID	3		2076
Species	Populus	Location	
DBH (cm)	35	Latitude:45.821394,Longitude:-80.674783,Altitude:181.0,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:33:42 EDT	
Height (m)	8		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2721

Cavity Height (m)	5
Cavity Notes	Peeling bark

Tree ID	4		2079
Species	Large tooth aspen	Location	
DBH (cm)	32	Latitude:45.821387,Longitude:-80.674834,Altitude:181.4,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:37:35 EDT	
Height (m)	20		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2724

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	

Tree ID	5		2082
Species	White birch	Location	
DBH (cm)	28	Latitude:45.821172,Longitude:-80.675443,Altitude:185.7,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:44:43 EDT	
Height (m)	6		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2727

Cavity Height (m)	5
Cavity Notes	

Tree ID	6		2085
Species	Balsam poplar	Location	
DBH (cm)	31	Latitude:45.821257,Longitude:-80.67548,Altitude:186.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:47:18 EDT	
Height (m)	9		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2730

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	

Plot ID	BAT-S-M38-35	2256

Location	Plot Notes
Latitude:45.820927,Longitude:-80.676049,Altitude:183.3,Speed:0.20577778,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:11:00 EDT	No suitable trees wet swampy area. Birch and red maple

Plot ID	BAT-S-M38-29	2259

Location	Plot Notes
Latitude:45.820375,Longitude:-80.669443,Altitude:185.9,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:33:52 EDT	No suitable trees

Plot ID	BAT-S-M38-40	2262

Location	Plot Notes
Latitude:45.822589,Longitude:-80.668811,Altitude:183.3,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:45:07 EDT	

Tree ID	1	2088

Species	Paper birch	Location	
DBH (cm)	45	Latitude:45.822589,Longitude:-80.668811,Altitude:183.3,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:45:27 EDT	
Height (m)	6		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2733

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Peeling bark

Tree ID	2		2091
Species	Paper birch	Location	
DBH (cm)	29	Latitude:45.822785,Longitude:-80.6688,Altitude:181.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:50:19 EDT	
Height (m)	8		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2736

Cavity Height (m)	6
Cavity Notes	

Tree ID	3		2094
Species	Paper birch	Location	
DBH (cm)	33	Latitude:45.822789,Longitude:-80.668837,Altitude:181.3,Speed:0.57103336,Accuracy:1.75,Provider:gps,Time:04/29/2015 12:53:14 EDT	
Height (m)	8		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2739

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-S-M37-44	2265

Location	Plot Notes
Latitude:45.823595,Longitude:-80.671494,Altitude:184.6,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:04:41 EDT	

Tree ID	1	2097

Species	Large tooth aspen	Location	
DBH (cm)	28	Latitude:45.823596,Longitude:-80.671494,Altitude:184.9,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:05:09 EDT	
Height (m)	9		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2742

Cavity Height (m)	4
Cavity Notes	

Plot ID	BAT-S-M37-49	2268

Location	Plot Notes
Latitude:45.823686,Longitude:-80.671812,Altitude:184.4,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:11:21 EDT	No suitable trees

Plot ID	BAT-S-M37-57	2271

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.82399,Longitude:-80.672067,Altitude:186.7,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:13:55 EDT	No suitable trees. White pine. Jack pine

Plot ID	BAT-S-M37-61	2274

Location	Plot Notes
Latitude:45.824272,Longitude:-80.672061,Altitude:186.1,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:17:33 EDT	No suitable trees. Jack pinus. Red maple

Plot ID	BAT-S-M37-59	2277

Location	Plot Notes
Latitude:45.824096,Longitude:-80.672755,Altitude:185.7,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:23:27 EDT	No suitable trees. Birch. White pine.

Plot ID	BAT-S-M37-54	2280

Location	Plot Notes
Latitude:45.823915,Longitude:-80.673012,Altitude:183.6,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:29:06 EDT	No suitable trees. Alder.

Plot ID	BAT-S-M37-60	2283

Location	Plot Notes
Latitude:45.824231,Longitude:-80.673459,Altitude:185.2,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:35:35 EDT	No suitable trees. Alder

Plot ID	BAT-S-M37-65	2286

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824502,Longitude:-80.67549,Altitude:184.7,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/29/2015 02:03:19 EDT	

Tree ID	1	2100

Species	Betula papyrifera	Location	
DBH (cm)	31	Latitude:45.824382,Longitude:-80.675305,Altitude:183.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:49:07 EDT	
Height (m)	18		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details	2745

Cavity Height (m)	10
Cavity Notes	

Tree ID	2	2103

Species	Betula papyrifera	Location	
DBH (cm)	25	Latitude:45.824595,Longitude:-80.675507,Altitude:184.5,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:04/29/2015 02:05:30 EDT	
Height (m)	8		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2748

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	

Tree ID	3		2106
Species	Populus grandidentata	Location	
DBH (cm)	32	Latitude:45.824583,Longitude:-80.675255,Altitude:186.5,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/29/2015 02:08:53 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 2751

Cavity Height (m)	5
Cavity Notes	

Plot ID	BAT-S-M37-104		2289
Location		Plot Notes	
Latitude:45.825395,Longitude:-80.672025,Altitude:189.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/29/2015 02:23:14 EDT		No suitable trees. Jack pine White pine	

Map Number	S-M46, S-M47	Field Crew	KASEY MCKENZIE & CASEY O'DRISCOLL	351

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	4/29/2015 11:00:32 AM	Precipitation	0		
End Date	4/29/2015 2:40:15 PM	Cloud Cover	10.00		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M46-162	2292

Location	Plot Notes
Latitude:45.827283,Longitude:-80.684428,Altitude:180.4,Speed:0.10288889,Accuracy:2.7,Provider:gps,Time:04/29/2015 11:00:48 EDT	

Tree ID	1	2109

Species	Pinus strobus	Location
DBH (cm)	49	Latitude:45.827367,Longitude:-80.684378,Altitude:180.0,Speed:0.03601111,Accuracy:2.4,Provider:gps,Time:04/29/2015 11:03:16 EDT
Height (m)	22	
Canopy Cover (%)	90	
# of Cavities	6	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details	2754
Cavity Height (m)	10
Cavity Notes	3 holes on west facing side at 10m

Cavity Details	2757
Cavity Height (m)	11
Cavity Notes	3 holes on east side at 10m

Plot ID	BAT-S-M46-163	2295

Location	Plot Notes
Latitude:45.827469,Longitude:-80.683955,Altitude:179.9,Speed:0.01028889,Accuracy:1.75,Provider:gps,Time:04/29/2015 11:14:33 EDT	On rock barren surrounded by immature pine stand. No cavities.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M46-169	2298

Location	Plot Notes
Latitude:45.827808,Longitude:-80.684141,Altitude:177.9,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/29/2015 11:39:25 EDT	

Plot ID	BAT-S-M46-175	2301

Location	Plot Notes
Latitude:45.828059,Longitude:-80.683931,Altitude:179.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/29/2015 11:43:19 EDT	Swampy mixed wood forest

Plot ID	BAT-S-M46-181	2304

Location	Plot Notes
Latitude:45.828436,Longitude:-80.683557,Altitude:185.4,Speed:0.05658889,Accuracy:1.5,Provider:gps,Time:04/29/2015 11:47:49 EDT	Swampy mixed wood area

Plot ID	BAT-S-M46-179	2307

Location	Plot Notes
Latitude:45.828371,Longitude:-80.684261,Altitude:186.6,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:04/29/2015 12:30:34 EDT	Mixed wood stand

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2112
Species	Populus sp	Location	
DBH (cm)	31	Latitude:45.828179,Longitude:-80.684444,Altitude:187.4,Speed:0.01543333,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:33:17 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details		2760
Cavity Height (m)	5	
Cavity Notes	2 openings to a larger inside cavity	

Tree ID	2		2115
Species	Populus sp	Location	
DBH (cm)	42	Latitude:45.827957,Longitude:-80.684429,Altitude:186.6,Speed:0.19034444,Accuracy:1.75,Provider:gps,Time:04/29/2015 12:43:18 EDT	
Height (m)	23		
Canopy Cover (%)	40		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2763
Cavity Height (m)	12	
Cavity Notes	3 nice small openings at around 12m	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		2118
Species	Pinus strobus	Location	
DBH (cm)	58	Latitude:45.827935,Longitude:-80.684425,Altitude:188.0,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/29/2015 12:47:51 EDT	
Height (m)	14		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2766
Cavity Height (m)	7		
Cavity Notes	Small hole below dead branch		
Tree ID	4		2121
Species	Populus sp	Location	
DBH (cm)	38	Latitude:45.827918,Longitude:-80.684417,Altitude:188.4,Speed:0.0,Accuracy:1.75,Provider:gps,Time:04/29/2015 12:50:17 EDT	
Height (m)	18		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2769
Cavity Height (m)	15		
Cavity Notes	3 small Woodpecker holes near top of tree		
Plot ID	BAT-S-M46-130		2310

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.825962,Longitude:-80.686181,Altitude:173.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/29/2015 01:06:18 EDT	In mature mixed wood stand. No cavities.

Plot ID	BAT-S-M46-123	2313

Location	Plot Notes
Latitude:45.825872,Longitude:-80.686154,Altitude:176.3,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:09:38 EDT	On rock barren. Mature mixed wood stand. No cavities.

Plot ID	BAT-S-M46-121	2316

Location	Plot Notes
Latitude:45.825678,Longitude:-80.686286,Altitude:177.7,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/29/2015 01:23:38 EDT	In mature mixed wood stand. No cavities.

Plot ID	BAT-S-M46-118	2319

Location	Plot Notes
Latitude:45.825624,Longitude:-80.686762,Altitude:173.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/29/2015 01:41:42 EDT	Swamp

Plot ID	BAT-S-M46-107	2322

Location	Plot Notes
Latitude:45.825536,Longitude:-80.687046,Altitude:171.8,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/29/2015 01:48:35 EDT	Mixed wood swamp

Plot ID	BAT-S-M46-120	2325

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.825709,Longitude:-80.687588,Altitude:177.4,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/29/2015 01:56:40 EDT	Mixed wood thicket

Plot ID: BAT-S-M46-110 — 2328

Location	Plot Notes
Latitude:45.825604,Longitude:-80.687958,Altitude:181.3,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:04/29/2015 02:04:00 EDT	Mixed wood stand

Plot ID: BAT-S-M47-102 — 2331

Location	Plot Notes
Latitude:45.825454,Longitude:-80.69028,Altitude:183.6,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:04/29/2015 02:16:24 EDT	Mature pine stand

Map Number: S-M47, S-M48 — Field Crew: KASEY MCKENZIE & CASEY O'DRISCOLL — 354

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	3		
Start Date	4/30/2015 9:43:57 AM	Precipitation	0		
End Date	4/30/2015 2:00:42 PM	Cloud Cover	70.00		

Plot ID: BAT-S-M47-149 — 2334

Location	Plot Notes
Latitude:45.826399,Longitude:-80.696494,Altitude:172.6,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/30/2015 09:46:09 EDT	Mature healthy pine stand

Plot ID: BAT-S-M47-134 — 2337

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826179,Longitude:-80.696108,Altitude:175.1,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/30/2015 09:49:22 EDT	Pine and spruce stand

Plot ID	BAT-S-M47-128	2340

Location	Plot Notes
Latitude:45.825922,Longitude:-80.695698,Altitude:173.4,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/30/2015 09:52:23 EDT	Mature pine stand

Plot ID	BAT-S-M47-106	2343

Location	Plot Notes
Latitude:45.825541,Longitude:-80.695193,Altitude:169.6,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:04/30/2015 09:56:42 EDT	On rock barren, only jack pine

Plot ID	BAT-S-M47-95	2346

Location	Plot Notes
Latitude:45.825332,Longitude:-80.694814,Altitude:181.1,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:14:17 EDT	Pine stand

Plot ID	BAT-S-M47-86	2349

Location	Plot Notes
Latitude:45.825228,Longitude:-80.695853,Altitude:176.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:20:34 EDT	Side of rock barren, pines

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2124
Species	Pinus strobus	Location
DBH (cm)	37	Latitude:45.825299,Longitude:-80.695792,Altitude:174.9,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:22:30 EDT
Height (m)	15	
Canopy Cover (%)	30	
# of Cavities	1	Notes
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	

Cavity Details		2772
Cavity Height (m)	10	
Cavity Notes	Small hole on dead central branch	

Plot ID	BAT-S-M47-97	2352
Location	Latitude:45.825351,Longitude:-80.696609,Altitude:182.9,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:29:29 EDT	Plot Notes: Rock barren and jack pine

Plot ID	BAT-S-M47-85	2355
Location	Latitude:45.825116,Longitude:-80.697833,Altitude:180.0,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:41:40 EDT	Plot Notes: Pine stand

Plot ID	BAT-S-M47-77	2358
Location	Latitude:45.824966,Longitude:-80.698102,Altitude:181.7,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:45:24 EDT	Plot Notes: Pine stand

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M47-70	2361

Location	Plot Notes
Latitude:45.824701,Longitude:-80.698651,Altitude:182.2,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:49:16 EDT	Pine stand

Plot ID	BAT-S-M47-83	2364

Location	Plot Notes
Latitude:45.82515,Longitude:-80.698523,Altitude:185.7,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:53:44 EDT	Pine stand

Plot ID	BAT-S-M47-94	2367

Location	Plot Notes
Latitude:45.825331,Longitude:-80.69913,Altitude:183.3,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:57:52 EDT	In mature pine stand. No cavities.

Plot ID	BAT-S-M47-93	2370

Location	Plot Notes
Latitude:45.825321,Longitude:-80.699504,Altitude:181.8,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/30/2015 11:02:30 EDT	On edge of rock barren in mature pine stand. No cavities.

Plot ID	BAT-S-M47-105	2373

Location	Plot Notes
Latitude:45.825543,Longitude:-80.699039,Altitude:185.9,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 11:06:50 EDT	On rock barren. Surrounded by mature pine stand. No cavities..

Plot ID	BAT-S-M47-113	2376

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.825733,Longitude:-80.699332,Altitude:186.6,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:10:27 EDT	On rock barren surrounded by mature pine stand. No cavities.

Plot ID	BAT-S-M47-119	2379

Location	Plot Notes
Latitude:45.825661,Longitude:-80.699662,Altitude:184.3,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:14:53 EDT	On edge of swamp surrounded by immature pine stand. No cavities.

Plot ID	BAT-S-M47-129	2382

Location	Plot Notes
Latitude:45.82598,Longitude:-80.699326,Altitude:186.9,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:18:54 EDT	On rock barren. Mixed mature and immature pine stand. No cavities.

Plot ID	BAT-S-M48-185	2385

Location	Plot Notes
Latitude:45.828774,Longitude:-80.699223,Altitude:185.9,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/30/2015 11:49:53 EDT	Between rock barren and swamp. In mature spruce and pine stand. No cavities.

Plot ID	BAT-S-M48-224	2388

Location	Plot Notes
Latitude:45.830582,Longitude:-80.700691,Altitude:186.5,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:44:04 EDT	Pine stand

Plot ID	BAT-S-M48-231	2391

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.831376,Longitude:-80.701377,Altitude:187.4,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:50:26 EDT	Pine and rock barren

Plot ID: BAT-S-M48-235 — 2394

Location	Plot Notes
Latitude:45.831712,Longitude:-80.70145,Altitude:184.8,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:54:59 EDT	Swampy coniferous forest

Tree ID: 1 — 2127

Species	Picea mariana	Location	
DBH (cm)	25	Latitude:45.83184,Longitude:-80.701442,Altitude:186.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:56:59 EDT	
Height (m)	14		
Canopy Cover (%)	10		
# of Cavities	4	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2775

Cavity Height (m): 3

Cavity Notes

4 cavities up tree starting at 3m

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2	2130
Species	Picea mariana	
DBH (cm)	33	
Height (m)	18	
Canopy Cover (%)	10	
# of Cavities	6	
Decay Class	4 Recently dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.831835,Longitude:-80.701335,Altitude:189.3,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:05:46 EDT	
Notes	Large recently dead Black Spruce.	

Cavity Details		2778
Cavity Height (m)	4	
Cavity Notes	2x4 inch rectangular holes. Starting at 4m extending upwards.	

Plot ID	BAT-S-M48-234	2397
Location	Latitude:45.831616,Longitude:-80.702683,Altitude:187.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:20:39 EDT	
Plot Notes	Pine	

Plot ID	BAT-S-M48-230	2400
Location	Latitude:45.83137,Longitude:-80.702868,Altitude:188.8,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:24:43 EDT	
Plot Notes	Pine stand	

Plot ID	BAT-S-M48-228	2403
Location	Latitude:45.831236,Longitude:-80.70331,Altitude:188.4,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:28:41 EDT	
Plot Notes	Pine stand	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M48-226		2406
Location		Plot Notes	
Latitude:45.830807,Longitude:-80.703669,Altitude:186.7,Speed:0.11317778,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:33:15 EDT		Pine stand	

Plot ID	BAT-S-M48-218		2409
Location		Plot Notes	
Latitude:45.830423,Longitude:-80.704521,Altitude:180.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:38:15 EDT		Rock barren and pine	

Plot ID	BAT-S-M48-225		2412
Location		Plot Notes	
Latitude:45.830623,Longitude:-80.704767,Altitude:190.0,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:45:11 EDT		Young pine stand	

Map Number	S-M49, S-M48	Field Crew	JASON NORONHA. JOHANNA PEREZ	357

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	0		
Start Date	4/30/2015 9:44:10 AM	Precipitation	0		
End Date	4/30/2015 2:19:47 PM	Cloud Cover	60.00		

Plot ID	BAT-S-M49-252		2415
Location		Plot Notes	
Latitude:45.83263,Longitude:-80.71117,Altitude:179.3,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:04/30/2015 09:45:30 EDT		No suitable trees. Black spruce. White pine. Boggy	

Plot ID	BAT-S-M49-259	2418

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.832874,Longitude:-80.711893,Altitude:178.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/30/2015 09:50:18 EDT	No suitable trees. White pine

Plot ID: BAT-S-M49-251 — 2421

Location	Plot Notes
Latitude:45.832628,Longitude:-80.712674,Altitude:176.3,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:04/30/2015 09:53:49 EDT	No suitable trees. White pine

Plot ID: BAT-S-M49-256 — 2424

Location	Plot Notes
Latitude:45.832738,Longitude:-80.713002,Altitude:177.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/30/2015 09:57:16 EDT	

Tree ID: 1 — 2133

Species	Pinus strobus	Location	
DBH (cm)	34	Latitude:45.832738,Longitude:-80.713002,Altitude:177.6,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:04/30/2015 09:57:50 EDT	
Height (m)	8		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2781

Cavity Height (m): 5

Cavity Notes: Slits in the bark

Plot ID: BAT-S-M49-249 — 2427

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.832361,Longitude:-80.712949,Altitude:179.8,Speed:0.07716667,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:04:36 EDT	

Tree ID	1	2136

Species	Pinus strobus	Location	
DBH (cm)	28	Latitude:45.832361,Longitude:-80.712949,Altitude:179.8,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:04:51 EDT	
Height (m)	11		
Canopy Cover (%)	40		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		2784
Cavity Height (m)	4	
Cavity Notes		
Slits in the bark		

Plot ID	BAT-S-M49-233	2430

Location	Plot Notes
Latitude:45.831638,Longitude:-80.712356,Altitude:182.4,Speed:0.11317778,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:12:19 EDT	No suitable trees. White spruce

Plot ID	BAT-S-M49-248	2433

Location	Plot Notes
Latitude:45.832206,Longitude:-80.711884,Altitude:179.4,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:17:00 EDT	No suitable trees. White and red pine. Black spruce

Plot ID	BAT-S-M49-245	2436

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.832195,Longitude:-80.711239,Altitude:182.1,Speed:0.11317778,Accuracy:1.75,Provider:gps,Time:04/30/2015 10:22:34 EDT	No suitable trees. Black spruce. Tamarack.

Plot ID	BAT-S-M49-241	2439

Location	Plot Notes
Latitude:45.831945,Longitude:-80.711505,Altitude:180.6,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:26:37 EDT	No suitable trees. White pine. White spruse

Plot ID	BAT-S-M49-236	2442

Location	Plot Notes
Latitude:45.831738,Longitude:-80.711841,Altitude:183.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 10:44:45 EDT	No suitable trees. White pine. White spruce

Plot ID	BAT-S-M49-227	2445

Location	Plot Notes
Latitude:45.830732,Longitude:-80.711467,Altitude:181.7,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:12:15 EDT	

Tree ID	1	2139

Species	Pinus strobus	Location	
DBH (cm)	35	Latitude:45.831425,Longitude:-80.711689,Altitude:183.2,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:48:52 EDT	
Height (m)	6		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2787

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	

Tree ID	2		2142
Species	Unknown	Location	
DBH (cm)	26	Latitude:45.831248,Longitude:-80.711625,Altitude:182.6,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:52:23 EDT	
Height (m)	8		
Canopy Cover (%)	65		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2790

Cavity Height (m)	6
Cavity Notes	

Tree ID	3		2145
Species	Pinus strobus	Location	
DBH (cm)	50	Latitude:45.830875,Longitude:-80.711548,Altitude:182.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:05:23 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2793

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	3
Cavity Notes	Peeling bark

Tree ID	4		2148
Species	Pinus strobus	Location	
DBH (cm)	60	Latitude:45.830871,Longitude:-80.711543,Altitude:181.9,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:05:39 EDT	
Height (m)	5		
Canopy Cover (%)	25		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2796

Cavity Height (m)	4
Cavity Notes	

Tree ID	5		2151
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.830745,Longitude:-80.711503,Altitude:182.0,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:09:21 EDT	
Height (m)	10		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2799

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	

Tree ID	6	2154

Species	Acer rubrum	Location	
DBH (cm)	38	Latitude:45.830612,Longitude:-80.711568,Altitude:181.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/30/2015 11:14:33 EDT	
Height (m)	10		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2802

Cavity Height (m)	3
Cavity Notes	

Cavity Details	2805

Cavity Height (m)	7
Cavity Notes	

Plot ID	BAT-S-M49-219	2448

Location	Plot Notes
Latitude:45.830498,Longitude:-80.711353,Altitude:186.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:00:36 EDT	Alder swamp and marsh, some small white birch. Potential least bittern habitat

Plot ID	BAT-S-M49-210	2451

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.829964,Longitude:-80.711397,Altitude:189.0,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:06:54 EDT	White pine (large dbh) and rock barren

Plot ID	BAT-S-M49-199	2454

Location	Plot Notes
Latitude:45.829614,Longitude:-80.711135,Altitude:189.3,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:11:10 EDT	White pine stand, rock barren

Plot ID	BAT-S-M49-198	2457

Location	Plot Notes
Latitude:45.829631,Longitude:-80.710717,Altitude:190.9,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:15:03 EDT	White pine, jack pine, rock barren, Sphagnum.

Plot ID	BAT-S-M49-192	2460

Location	Plot Notes
Latitude:45.829184,Longitude:-80.710777,Altitude:189.2,Speed:0.08231111,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:20:08 EDT	

Tree ID	01	2157

Species	Pinus strobus	Location	
DBH (cm)	41	Latitude:45.829236,Longitude:-80.710858,Altitude:188.5,Speed:0.087455556,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:24:21 EDT	
Height (m)	41		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2808

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m): 6

Cavity Notes:

Cavity Details 2811

Cavity Height (m): 7

Cavity Notes: Above first cavity

Cavity Details 2814

Cavity Height (m): 7

Cavity Notes: Above second cavity

Plot ID: BAT-S-M49-191 2463

Location: Latitude:45.829208,Longitude:-80.710277,Altitude:188.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:27:45 EDT

Plot Notes:

Tree ID: 01 2160

Species: Acer rubrum

DBH (cm): 30

Height (m): 12

Canopy Cover (%): 85

# of Cavities: 1

Decay Class: 2 Declining tree

Suitable location for audio monitor? N

Location:

Notes:

Cavity Details 2817

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Cavity into tree hollow

Plot ID	BAT-S-M49-186	2466

Location	Plot Notes
Latitude:45.828849,Longitude:-80.710276,Altitude:187.6,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:37:57 EDT	

Tree ID	01	2163

Species	Pinus strobus	Location
DBH (cm)	30	Latitude:45.828785,Longitude:-80.710343,Altitude:193.2,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:41:55 EDT
Height (m)	21	
Canopy Cover (%)	95	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	2820

Cavity Height (m)	7
Cavity Notes	

Cavity Details	2823

Cavity Height (m)	6
Cavity Notes	Above dead branch

Plot ID	BAT-S-M49-190	2469

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.829052,Longitude:-80.708509,Altitude:192.5,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:57:18 EDT	

Plot ID: BAT-S-M49-193 — 2472

Location	Plot Notes
Latitude:45.829321,Longitude:-80.70805,Altitude:192.3,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:03:12 EDT	White pine, rock barren

Plot ID: BAT-S-M49-201 — 2475

Location	Plot Notes
Latitude:45.829654,Longitude:-80.707974,Altitude:195.8,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:14:34 EDT	White pine, black spruce

Plot ID: BAT-S-M49-197 — 2478

Location	Plot Notes
Latitude:45.829513,Longitude:-80.707561,Altitude:194.0,Speed:0.16462222,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:19:27 EDT	Trees with cavity too small, plot mostly white pine

Plot ID: BAT-S-M49-216 — 2481

Location	Plot Notes
Latitude:45.830079,Longitude:-80.706557,Altitude:192.9,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:25:51 EDT	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	01	2166
Species	Pinus strobus	
DBH (cm)	25	
Height (m)	5	
Canopy Cover (%)	50	
# of Cavities	1	
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	
Location	Latitude:45.830079,Longitude:-80.706601,Altitude:190.7,Speed:0.29837778,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:29:18 EDT	
Notes		

Cavity Details		2826
Cavity Height (m)	3	
Cavity Notes	Crevice between inner wood and bark, also some shallow wood pecker hoes	

Plot ID	BAT-S-M49-209	2484
Location	Latitude:45.829909,Longitude:-80.706178,Altitude:194.0,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:34:33 EDT	
Plot Notes		

Plot ID	BAT-S-M49-211	2487
Location	Latitude:45.830142,Longitude:-80.705916,Altitude:191.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:45:23 EDT	
Plot Notes	This plot does not have a star associated with it	

Plot ID	BAT-S-M48-220	2490
Location	Latitude:45.830526,Longitude:-80.705189,Altitude:188.2,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:51:05 EDT	
Plot Notes		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	WEC-N-M47	Field Crew	TOM SHORNEY, OLGA HROPACH		360
Feature ID	BAT-N-M47-71	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	2		
Start Date	4/30/2015 10:28:18 AM	Precipitation	0		
End Date	4/30/2015 5:09:43 PM	Cloud Cover	80.00		
Plot ID	BAT-N-M47-71				2493
Location		Plot Notes			
Latitude:45.866849,Longitude:-80.706096,Altitude:184.6,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:29:22 EDT		This polygon contains a combination of black spruce and jack pine all below 25 dbh.			
Plot ID	BAT-N-M43-60				2496
Location		Plot Notes			
Latitude:45.864303,Longitude:-80.69409,Altitude:194.0,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:04/30/2015 01:17:41 EDT		All trees consist of trees with dbh below 25 cm.			
Map Number	BAT-N-M44	Field Crew	TOM SHORNEY, OLGA HROPACH		363
Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	18.00	Weather Notes	
Tablet	AECOM13	Wind Speed (beaufort)	2		
Start Date	4/30/2015 5:13:27 PM	Precipitation	0		
End Date	4/30/2015 5:13:30 PM	Cloud Cover	0.00		
Plot ID	BAT-N-44-68				2499
Location		Plot Notes			
Latitude:45.865424,Longitude:-80.694988,Altitude:187.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/30/2015 11:27:20 EDT		All trees in plot are below 25 dbh			
Map Number	S-M32	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA		366

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM4	Wind Speed (beaufort)	4		
Start Date	4/30/2015 9:54:09 AM	Precipitation	0		
End Date	4/30/2015 10:46:33 AM	Cloud Cover	60.00		

Plot ID	BAT-S-M32-278	2502

Location	Plot Notes
Latitude:45.833796,Longitude:-80.658382,Altitude:185.0,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:04/30/2015 09:57:23 EDT	Small conifer swamp surrounded by rock barrensSpruce, jack pine, juniper, white birch, red maple

Tree ID	1	2169

Species	Pinus strobus	Location	
DBH (cm)	37	Latitude:45.833806,Longitude:-80.658362,Altitude:186.8,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:00:51 EDT	
Height (m)	11		
Canopy Cover (%)	30		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2829
Cavity Height (m)	6	
Cavity Notes		
Peeling bark		

Plot ID	BAT-S-M32-272	2505

Location	Plot Notes
Latitude:45.833544,Longitude:-80.658602,Altitude:186.8,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:10:56 EDT	Conifer swamp bordering rock barrenJack pine, spruce, juniper, tamarack, white birchNo suitable trees

Plot ID	BAT-S-M32-265	2508

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.833166,Longitude:-80.658619,Altitude:187.0,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:04/30/2015 10:22:09 EDT	Edge of rock barren leading into conifer swampSpruce, jack pine, juniperNo suitable trees

Plot ID: BAT-S-M32-266 — 2511

Location	Plot Notes
Latitude:45.833347,Longitude:-80.658184,Altitude:189.7,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:04/30/2015 10:40:46 EDT	Edge of rock barren leading into conifer swampSpruce, tamarack, white birch, red mapleNo suitable trees

Map Number: S-M35 — Field Crew: ADAM MCCLELLAND, NATALIYA SIMONOVA — 369

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	16.00	Weather Notes
Tablet	AECOM4	Wind Speed (beaufort)	4	
Start Date	4/30/2015 11:59:54 AM	Precipitation	0	
End Date	4/30/2015 2:06:06 PM	Cloud Cover	10.00	

Plot ID: BAT-S-M35-184 — 2514

Location	Plot Notes
Latitude:45.828668,Longitude:-80.659356,Altitude:186.4,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:11:10 EDT	Low area between rock barrensJack pine, white pine, trembling aspen, spruce, juniperNo suitable trees

Plot ID: BAT-S-M35-171 — 2517

Location	Plot Notes
Latitude:45.828021,Longitude:-80.660132,Altitude:188.9,Speed:0.15947777,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:46:20 EDT	Low swamp area bordering pond and rock barrenTrembling aspen, white pine, red maple, alder, spruce

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2172
Species	Populus tremuloides	Location	
DBH (cm)	45	Latitude:45.827897,Longitude:-80.660004,Altitude:182.4,Speed:0.18005556,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:24:43 EDT	
Height (m)	11		
Canopy Cover (%)	15		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2832
Cavity Height (m)	8		
Cavity Notes	Small hole on underside of branch		
Tree ID	2		2175
Species	Populus tremuloides	Location	
DBH (cm)	59	Latitude:45.827931,Longitude:-80.660072,Altitude:183.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:04/30/2015 12:30:31 EDT	
Height (m)	16		
Canopy Cover (%)	10		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2835
Cavity Height (m)	5		
Cavity Notes	Peeling bark		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	2178
Species	Populus tremuloides	Location
DBH (cm)	32	Latitude:45.827986,Longitude:-80.660095,Altitude:187.0,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:35:35 EDT
Height (m)	12	
Canopy Cover (%)	20	
# of Cavities	3	Notes
Decay Class	4 Recently dead tree	Trunk may be hollow
Suitable location for audio monitor?	Y	

Cavity Details		2838
Cavity Height (m)	6	
Cavity Notes	Hole in trunk	
Cavity Details		2841
Cavity Height (m)	4	
Cavity Notes	Peeling bark	
Cavity Details		2844
Cavity Height (m)	2	
Cavity Notes	Hole in trunk 10 cm wide	
Cavity Details		2847
Cavity Height (m)	4	
Cavity Notes	Crack in trunk 10 cm wide	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4	2181
Species	Acer rubrum	
DBH (cm)	41	
Height (m)	10	
Canopy Cover (%)	20	
# of Cavities	1	
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Location

Latitude:45.82803,Longitude:-80.660127,Altitude:188.9,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:04/30/2015 12:47:31 EDT

Notes

Cavity Details 2850

Cavity Height (m) 5

Cavity Notes

Hole in trunk 20 cm wide

Plot ID	BAT-S-M35-200	2520

Location

Latitude:45.829506,Longitude:-80.665995,Altitude:189.4,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:04/30/2015 01:30:58 EDT

Plot Notes

Patch of conifers surrounded by rock barrensRed pine, white pine, spruce, juniper, jack pineNo suitable trees

Plot ID	BAT-S-M35-207	2523

Location

Latitude:45.829778,Longitude:-80.666515,Altitude:185.5,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:40:24 EDT

Plot Notes

Low area between rock barrens; not currently wetRed pine, white pine, white spruce, white birch, jack pine, trembling aspenNo suitable trees

Plot ID	BAT-S-M35-212	2526

Location

Latitude:45.829885,Longitude:-80.665989,Altitude:179.7,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:04/30/2015 01:52:03 EDT

Plot Notes

Low area bordering rock barrens and thicket; not currently wetRed pine, white pine, white birch, red maple, white spruce, trembling aspenNo suitable trees

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M35-206		2529

Location	Plot Notes
Latitude:45.829673,Longitude:-80.665697,Altitude:180.1,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:04/30/2015 02:04:11 EDT	Edge of rock barren leading into wet thicketWhite spruce, white birch, white pine, alderNo suitable trees

Map Number	S-M50	Field Crew	CASEY O'DRISCOLL & KASEY MCKENZIE	372

Feature ID	NA	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM8	Wind Speed (beaufort)	1	
Start Date	5/1/2015 10:03:33 AM	Precipitation	0	
End Date	5/1/2015 11:55:00 AM	Cloud Cover	5.00	

Plot ID	BAT-S-M50-172		2532

Location	Plot Notes
Latitude:45.828057,Longitude:-80.708919,Altitude:183.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:04:51 EDT	Pines and alder swamp

Plot ID	BAT-S-M50-157		2535

Location	Plot Notes
Latitude:45.826977,Longitude:-80.709399,Altitude:176.1,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:30:22 EDT	Pine and spruce

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2184
Species	Pinus strobus	Location	
DBH (cm)	52	Latitude:45.82719,Longitude:-80.709336,Altitude:178.5,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:24:46 EDT	
Height (m)	24		
Canopy Cover (%)	60		
# of Cavities	16	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			2853
Cavity Height (m)	5		
Cavity Notes	Small woodpecker holes starting at 5m going up		
Tree ID	2		2187
Species	Acer rubrum	Location	
DBH (cm)	35	Latitude:45.826831,Longitude:-80.709446,Altitude:176.7,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:33:34 EDT	
Height (m)	14		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2856
Cavity Height (m)	6		
Cavity Notes	Big cavity looks like leads further up into the tree		
Plot ID	BAT-S-M50-131		2538

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.826142,Longitude:-80.709043,Altitude:176.6,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:05/01/2015 10:45:38 EDT	Spruceandcedar

Plot ID: BAT-S-M50-122 — 2541

Location	Plot Notes
Latitude:45.825773,Longitude:-80.708557,Altitude:180.7,Speed:0.025722222,Accuracy:2.4,Provider:gps,Time:05/01/2015 10:50:59 EDT	Pine and cedar stand

Plot ID: BAT-S-M50-96 — 2544

Location	Plot Notes
Latitude:45.825395,Longitude:-80.708245,Altitude:178.5,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/01/2015 10:55:45 EDT	Pine and maple

Tree ID: 1 — 2190

Species	Populus sp	Location	
DBH (cm)	28	Latitude:45.82535,Longitude:-80.708266,Altitude:179.3,Speed:0.0051444443,Accuracy:1.75,Provider:gps,Time:05/01/2015 10:57:23 EDT	
Height (m)	10		
Canopy Cover (%)	20		
# of Cavities	4	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2859

Cavity Height (m): 9

Cavity Notes: 4small holes in last metre of tree

Plot ID: BAT-S-M50-74 — 2547

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824928,Longitude:-80.707977,Altitude:182.8,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/01/2015 11:04:54 EDT	Swampy, pine, black spruce, maple

Plot ID: BAT-S-M50-76 — 2550

Location	Plot Notes
Latitude:45.824958,Longitude:-80.707273,Altitude:184.8,Speed:0.0051444443,Accuracy:2.0,Provider:gps,Time:05/01/2015 11:11:39 EDT	Pine stand

Plot ID: BAT-S-M50-64 — 2553

Location	Plot Notes
Latitude:45.824518,Longitude:-80.706916,Altitude:177.5,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/01/2015 11:16:46 EDT	Cedar

Tree ID: 1 — 2193

Species	Acer rubrum	Location	
DBH (cm)	39	Latitude:45.824484,Longitude:-80.706994,Altitude:176.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/01/2015 11:17:53 EDT	
Height (m)	18		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details — 2862

Cavity Height (m): 6

Cavity Notes: 4x1 inches

Plot ID: BAT-S-M50-68 — 2556

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.824622,Longitude:-80.707756,Altitude:175.6,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/01/2015 11:24:34 EDT	Pine stand

Plot ID: BAT-S-M50-55 — 2559

Location	Plot Notes
Latitude:45.824126,Longitude:-80.707481,Altitude:177.9,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/01/2015 11:30:57 EDT	Pine and birch

Tree ID: 1 — 2196

Species	Pinus strobus	Location	
DBH (cm)	35	Latitude:45.824082,Longitude:-80.707402,Altitude:179.7,Speed:0.15947777,Accuracy:1.5,Provider:gps,Time:05/01/2015 11:32:51 EDT	
Height (m)	17		
Canopy Cover (%)	40		
# of Cavities	5	Notes	
Decay Class	4 Recently dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2865

Cavity Height (m): 15

Cavity Notes

5 at 15m and up

Plot ID: BAT-S-M50-47 — 2562

Location	Plot Notes
Latitude:45.823781,Longitude:-80.706873,Altitude:185.0,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/01/2015 11:40:40 EDT	Pine, side of rock barren

Plot ID: BAT-S-M50-45 — 2565

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.823759,Longitude:-80.707829,Altitude:185.4,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/01/2015 11:47:12 EDT	Alder swamp

Plot ID: BAT-S-M50-52 — 2568

Location	Plot Notes
Latitude:45.824031,Longitude:-80.708439,Altitude:180.7,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/01/2015 11:53:32 EDT	Pine stand

Map Number: S-M43, S-M44, S-M45 — Field Crew: KASEY MCKENZIE & CASEY O'DRISCOLL — 375

Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	0		
Start Date	5/4/2015 11:28:03 PM	Precipitation	2		
End Date	5/4/2015 1:30:19 PM	Cloud Cover	80.00		

Plot ID: BAT-S-M43-20 — 2571

Location	Plot Notes
Latitude:45.818374,Longitude:-80.635285,Altitude:196.9,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:21:11 EDT	Maple and birch

Plot ID: BAT-S-M43-21 — 2574

Location	Plot Notes
Latitude:45.81868,Longitude:-80.635308,Altitude:196.5,Speed:0.066877775,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:24:10 EDT	Rock barren

Plot ID: BAT-S-M43-23 — 2577

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.818887,Longitude:-80.634834,Altitude:198.2,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:26:55 EDT	Side of rock barren

Plot ID: BAT-S-M44-32 — 2580

Location	Plot Notes
Latitude:45.820588,Longitude:-80.635924,Altitude:188.3,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:35:46 EDT	Deciduous forest

Tree ID: 1 — 2199

Species	Populus sp	Location	
DBH (cm)	37	Latitude:45.820659,Longitude:-80.635967,Altitude:190.6,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:39:34 EDT	
Height (m)	12		
Canopy Cover (%)	30		
# of Cavities	3	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2868

Cavity Height (m): 9

Cavity Notes: 3 starting at 9m and up

Plot ID: BAT-S-M44-34 — 2583

Location	Plot Notes
Latitude:45.820691,Longitude:-80.636291,Altitude:192.4,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:43:47 EDT	

Plot ID: BAT-S-M44-36 — 2586

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.821045,Longitude:-80.636187,Altitude:190.5,Speed:0.030866666,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:48:07 EDT	

Plot ID BAT-S-M44-37 2589

Location	Plot Notes
Latitude:45.821205,Longitude:-80.636753,Altitude:195.7,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/04/2015 11:50:59 EDT	

Plot ID BAT-S-M44-27 2592

Location	Plot Notes
Latitude:45.819876,Longitude:-80.633524,Altitude:190.8,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/04/2015 12:17:28 EDT	On edge of rock barren. Immature mixed hardwood stand. No cavities.

Plot ID BAT-S-M44-25 2595

Location	Plot Notes
Latitude:45.819626,Longitude:-80.633474,Altitude:191.3,Speed:0.05658889,Accuracy:1.75,Provider:gps,Time:05/04/2015 12:23:24 EDT	On edge of rock barren in immature mixed wood stand. No cavities.

Plot ID BAT-S-M44-28 2598

Location	Plot Notes
Latitude:45.820075,Longitude:-80.632805,Altitude:187.5,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/04/2015 12:28:44 EDT	On edge of alder swamp.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2202
Species	Acer rubrum	Location
DBH (cm)	36	Latitude:45.820076,Longitude:-80.632805,Altitude:187.4,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/04/2015 12:29:17 EDT
Height (m)	15	
Canopy Cover (%)	40	
# of Cavities	2	Notes
Decay Class	2 Declining tree	Declining red maple on edge of swamp.
Suitable location for audio monitor?	N	
Cavity Details		2871
Cavity Height (m)	7	
Cavity Notes	Cavities starting at 7 m extending upwards.	
Plot ID	BAT-S-M44-30	2601
Location	Latitude:45.820453,Longitude:-80.633138,Altitude:185.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/04/2015 12:37:49 EDT	Plot Notes: On edge of rock barren in mature mixed wood stand.
Tree ID	1	2205
Species	Populus tremuloides	Location
DBH (cm)	37	Latitude:45.820453,Longitude:-80.633138,Altitude:185.5,Speed:0.015433333,Accuracy:1.75,Provider:gps,Time:05/04/2015 12:38:09 EDT
Height (m)	16	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	2 Declining tree	Declining trembling aspen.
Suitable location for audio monitor?	Y	
Cavity Details		2874

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Large split starting at 5m extending upwards to 6.5m.
Plot ID	BAT-S-M44-33

2604

Location		Plot Notes	
Latitude:45.820528,Longitude:-80.632749,Altitude:185.2,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/04/2015 12:46:53 EDT		On edge of swamp in mature birch stand. No cavities.	
Tree ID	1		

2208

Species	Populus tremuloides	Location	
DBH (cm)	26	Latitude:45.820496,Longitude:-80.632493,Altitude:188.2,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/04/2015 12:50:56 EDT	
Height (m)	14		
Canopy Cover (%)	30		
# of Cavities	2	Notes	
Decay Class	2 Declining tree	Declining trembling aspen.	
Suitable location for audio monitor?	N		

Cavity Details

2877

Cavity Height (m)	10
Cavity Notes	Small split in bark.
Plot ID	BAT-S-M44-31

2607

Location		Plot Notes	
Latitude:45.820498,Longitude:-80.632324,Altitude:192.0,Speed:0.030866666,Accuracy:1.75,Provider:gps,Time:05/04/2015 12:55:55 EDT		On rock barren. No cavities.	
Plot ID	BAT-S-M45-26		

2610

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.819762,Longitude:-80.63008,Altitude:187.8,Speed:0.09774444,Accuracy:1.75,Provider:gps,Time:05/04/2015 01:07:57 EDT	On edge of rock barren in mature hardwood stand. No cavities.

Plot ID: BAT-S-M43-7 — 2613

Location	Plot Notes
Latitude:45.814209,Longitude:-80.634475,Altitude:192.8,Speed:0.025722222,Accuracy:1.75,Provider:gps,Time:05/04/2015 01:35:45 EDT	Young jack pine stand

Map Number: S-M6 — Field Crew: NATALIYA SIMONOVA ADAM MCCLELLAND — 378

Feature ID	BAT-S-M6	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1		
Start Date	5/5/2015 8:07:11 AM	Precipitation	0		
End Date	5/5/2015 1:06:22 PM	Cloud Cover	50.00		

Plot ID: BAT-S-M6-631 — 2634

Location	Plot Notes
Latitude:45.844831,Longitude:-80.590669,Altitude:221.2,Speed:0.07202222,Accuracy:1.8,Provider:gps,Time:05/05/2015 08:45:01 EDT	Swamp , mixed forestAlder, red maple, white pine, balsam fir, white birch

Tree ID: 1 — 2232

Species	Betula papyrifera	Location	
DBH (cm)	33	Latitude:45.844842,Longitude:-80.59064,Altitude:219.7,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/05/2015 08:49:04 EDT	
Height (m)	6		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details — 2910

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Peeling bark

Plot ID	BAT-S-M6-628	2637

Location	Plot Notes
Latitude:45.844262,Longitude:-80.59035,Altitude:221.1,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:01:59 EDT	Mixed forest, swamp area within plotRed maple, white cedar, white pine, white birch, balsam firNo suitable trees

Plot ID	BAT-S-M6-629	2640

Location	Plot Notes
Latitude:45.843763,Longitude:-80.591739,Altitude:198.9,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:16:32 EDT	Mixed forest, swamp area within plotWhite pine, balsam fir, red maple, white birch

Tree ID	1	2235

Species	Betula papyrifera	Location	
DBH (cm)	26	Latitude:45.843821,Longitude:-80.591761,Altitude:197.7,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:21:37 EDT	
Height (m)	7		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2913
Cavity Height (m)	5
Cavity Notes	Hole in trunk 3 cm wide

Cavity Details	2916

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	Hole in trunk 5 cm wide

Plot ID	BAT-S-M6-626	2643

Location	Plot Notes
Latitude:45.844011,Longitude:-80.592193,Altitude:198.2,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/05/2015 09:27:51 EDT	Mixed forest, small patch of swamp within plotRed maple, white pine, alder, balsam fir, white birch, trembling aspen

Tree ID	1	2238

Species	Populus tremuloides	Location
DBH (cm)	38	Latitude:45.844002,Longitude:-80.592328,Altitude:199.1,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/05/2015 09:34:35 EDT
Height (m)	4	
Canopy Cover (%)	60	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	2919
Cavity Height (m)	2
Cavity Notes	Peeling bark

Cavity Details	2922
Cavity Height (m)	3
Cavity Notes	Peeling bark

Plot ID	BAT-S-M6-627	2646

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.844334,Longitude:-80.591604,Altitude:203.5,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:42:46 EDT	Mixed forest, numerous white pineWhite pine, red maple, balsam firNo suitable trees

Plot ID	BAT-S-M6-622	2649

Location	Plot Notes
Latitude:45.844793,Longitude:-80.591435,Altitude:199.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:51:11 EDT	Mixed forestRed maple, white pine, balsam fir, white birch

Tree ID	1	2241

Species	Populus tremuloides	Location	
DBH (cm)	34	Latitude:45.84477,Longitude:-80.591411,Altitude:199.7,Speed:0.051444445,Accuracy:2.1,Provider:gps,Time:05/05/2015 09:56:45 EDT	
Height (m)	5		
Canopy Cover (%)	100		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree	Tree is wobbly, may fall down soon	
Suitable location for audio monitor?	N		

Cavity Details	2925

Cavity Height (m)	3

Cavity Notes

Large hole in trunk, approx. 8 cm wide, 20 cm vertical

Plot ID	BAT-S-M6-624	2652

Location	Plot Notes
Latitude:45.844732,Longitude:-80.592343,Altitude:207.3,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:05/05/2015 10:07:36 EDT	Mixed forest bordering rock barrenRed maple, white pine, balsam fir, white birch

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2244
Species	Pinus strobus	Location
DBH (cm)	55	Latitude:45.844799,Longitude:-80.592346,Altitude:205.6,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/05/2015 10:20:08 EDT
Height (m)	22	
Canopy Cover (%)	90	
# of Cavities	2	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Cavity Details		2928
Cavity Height (m)	4	
Cavity Notes	Crack on underside of branch	

Cavity Details		2931
Cavity Height (m)	7	
Cavity Notes	Hole in trunk 5 cm wide	

Plot ID	BAT-S-M6-625	2655
Location	Latitude:45.845042,Longitude:-80.592953,Altitude:205.2,Speed:0.051444445,Accuracy:2.7,Provider:gps,Time:05/05/2015 10:34:03 EDT	Plot Notes: Mixed forestWhite pine, red pine, red maple, white birch, balsam fir, poplar

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2247
Species	Betula papyrifera	Location	
DBH (cm)	26	Latitude:45.845089,Longitude:-80.592951,Altitude:205.7,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/05/2015 10:47:51 EDT	
Height (m)	20		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			2934
Cavity Height (m)	11		
Cavity Notes	Outer bark peeled away, heartwood exposed		
Plot ID	BAT-S-M6-623		2658
Location		Plot Notes	
Latitude:45.845206,Longitude:-80.592117,Altitude:206.3,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/05/2015 10:55:08 EDT		Mixed forestRed maple, white birch, white pine, poplar, white spruce, balsam fir	
Tree ID	1		2250
Species	Betula papyrifera	Location	
DBH (cm)	26	Latitude:45.845229,Longitude:-80.592302,Altitude:207.1,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/05/2015 11:04:34 EDT	
Height (m)	6		
Canopy Cover (%)	95		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			2937

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Peeling bark

Plot ID	BAT-S-M6-630	2661

Location	Plot Notes
Latitude:45.845414,Longitude:-80.591411,Altitude:206.0,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/05/2015 11:11:13 EDT	Mixed forest bordering rock barren, large pool in centre of plotWhite pine, red maple, balsam fir, white cedar, balsam poplarNo suitable trees

Plot ID	BAT-S-M6-621	2664

Location	Plot Notes
Latitude:45.845282,Longitude:-80.590863,Altitude:200.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/05/2015 11:20:13 EDT	Mixed forest bordering swampRed maple, white pine, white birch, balsam fir, alder

Tree ID	1	2253

Species	Betula papyrifera	Location	
DBH (cm)	28	Latitude:45.845278,Longitude:-80.590919,Altitude:199.1,Speed:0.10803334,Accuracy:2.1,Provider:gps,Time:05/05/2015 11:29:09 EDT	
Height (m)	10		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2940
Cavity Height (m)	3
Cavity Notes	Peeling bark
Cavity Details	2943

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Peeling bark

Map Number	S-M51	Field Crew	NATALIYA SIMONOVA ADAM MCCLELLAND	381

Feature ID	BAT-S-M51	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	19.00	Weather Notes	
Tablet	AECOM7	Wind Speed (beaufort)	1	Forecast	
Start Date	5/5/2015 1:04:44 PM	Precipitation	0		
End Date	5/5/2015 2:37:42 PM	Cloud Cover	5.00		

Plot ID	BAT-S-M51-647	2667

Location	Plot Notes
Latitude:45.847576,Longitude:-80.571791,Altitude:192.3,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/05/2015 01:07:33 EDT	Treed plot With Populus tremuloides, Abies balsamea, Sambucus sp,Alder sp

Tree ID	1	2256

Species	Populus tremuloides	Location	
DBH (cm)	55	Latitude:45.847572,Longitude:-80.571793,Altitude:193.4,Speed:0.09774444,Accuracy:2.1,Provider:gps,Time:05/05/2015 01:11:21 EDT	
Height (m)	25		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2946

Cavity Height (m)	7
Cavity Notes	Cavity from broken branch

Cavity Details	2949

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	12
Cavity Notes	
Cavity from cracked bark	

Plot ID	BAT-S-M51-646	2670

Location	Plot Notes
Latitude:45.84818,Longitude:-80.572655,Altitude:181.7,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/05/2015 01:29:33 EDT	Swamp area with Populus tremuloides, Abies balsamea, Picea glauca No suitable trees with cavity

Plot ID	BAT-S-M51-645	2673

Location	Plot Notes
Latitude:45.848725,Longitude:-80.573067,Altitude:186.4,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/05/2015 01:38:01 EDT	Plot area with Swamp forest with Populus tremuloides, Abies balsamea, Acer rubrum No suitable trees with cavity

Plot ID	BAT-S-M51-644	2676

Location	Plot Notes
Latitude:45.84905,Longitude:-80.573128,Altitude:189.0,Speed:0.15433334,Accuracy:2.7,Provider:gps,Time:05/05/2015 01:44:05 EDT	Community with Populus tremuloides, Acer rubrum

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2259
Species	POPULUS TREMULOIDES	Location	
DBH (cm)	28	Latitude:45.849055,Longitude:-80.573121,Altitude:189.1,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/05/2015 01:45:31 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		2952
Cavity Height (m)	5	
Cavity Notes	Hole cavity from broken bark	

Cavity Details		2955
Cavity Height (m)	17	
Cavity Notes	Cavity from cracked bark in the branch	

Cavity Details		2958
Cavity Height (m)	15	
Cavity Notes	*	

Plot ID	BAT-S-M51-643	2679

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.849211,Longitude:-80.573679,Altitude:190.7,Speed:0.025722222,Accuracy:2.1,Provider:gps,Time:05/05/2015 02:00:28 EDT	Plot with Populus tremuloides and Fraxinus pensylvanica

Tree ID	1	2262
Species	Populus tremuloides	Location
DBH (cm)	38	Latitude:45.84921,Longitude:-80.573698,Altitude:191.6,Speed:0.16976666,Accuracy:1.8,Provider:gps,Time:05/05/2015 02:02:57 EDT
Height (m)	18	
Canopy Cover (%)	80	
# of Cavities	1	Notes
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	
Cavity Details		2961
Cavity Height (m)	3	
Cavity Notes	Cavity from cracked bark and trunk	

Tree ID	2	2265
Species	Populus tremuloides	Location
DBH (cm)	44	Latitude:45.849213,Longitude:-80.573693,Altitude:192.5,Speed:0.066877775,Accuracy:1.8,Provider:gps,Time:05/05/2015 02:06:26 EDT
Height (m)	22	
Canopy Cover (%)	85	
# of Cavities	2	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	
Cavity Details		2964

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Hole cavity from broken branch

Cavity Details 2967

Cavity Height (m)	10
Cavity Notes	Cavity from cracked trunk

Tree ID	3		2268
Species	Populus tremuloides	Location	
DBH (cm)	51	Latitude:45.849242,Longitude:-80.573625,Altitude:192.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/05/2015 02:12:02 EDT	
Height (m)	25		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 2970

Cavity Height (m)	10
Cavity Notes	Cavity from cracked trunk

Cavity Details 2973

Cavity Height (m)	17
Cavity Notes	Cavity from cracked bark on the branch

Plot ID	BAT-S-M4-635	2682

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.849541,Longitude:-80.574035,Altitude:187.8,Speed:0.14918889,Accuracy:2.1,Provider:gps,Time:05/05/2015 02:24:24 EDT	Community of plot with Populus tremuloides, Sambucus sp, Salix sp

Tree ID	1	2271

Species	Populus tremuloides	Location	
DBH (cm)	64	Latitude:45.849548,Longitude:-80.574042,Altitude:187.9,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/05/2015 02:24:45 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2976
Cavity Height (m)	5
Cavity Notes	Cavity from broken trunk

Cavity Details	2979
Cavity Height (m)	8
Cavity Notes	Cavity from cracked bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		2274
Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.849583,Longitude:-80.574047,Altitude:191.8,Speed:0.06173333,Accuracy:1.8,Provider:gps,Time:05/05/2015 02:32:54 EDT	
Height (m)	18		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2982
Cavity Height (m)	6
Cavity Notes	Cavity from cracked trunk

Map Number	S-M41	Field Crew	ADAM MCCLELLAND, ROB CONOHAN	384

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	3		
Start Date	5/4/2015 11:12:16 AM	Precipitation	1		
End Date	5/4/2015 1:32:01 PM	Cloud Cover	100.00		

Plot ID	BAT-S-M41-18		2685
Location	Latitude:45.81679,Longitude:-80.647067,Altitude:196.8,Speed:0.041155554,Accuracy:1.5,Provider:gps,Time:	Plot Notes	Swamp area bordering rock barrensJack pine, juniper, white birch, red mapleNo suitable trees

Plot ID	BAT-S-M41-17		2688
Location	Latitude:45.816214,Longitude:-80.646996,Altitude:195.7,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/04/2015 11:36:53 EDT	Plot Notes	Swamp area bordering rock barrensJack pine, white birch, juniper, red maple, white pineNo suitable trees

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M41-16	2691

Location	Plot Notes
Latitude:45.815634,Longitude:-80.646971,Altitude:199.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/04/2015 11:44:32 EDT	Low area bordering rock barrensRed oak, poplar, white birch, white pineNo suitable trees

Plot ID	BAT-S-M42-14	2694

Location	Plot Notes
Latitude:45.815304,Longitude:-80.646918,Altitude:192.9,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/04/2015 11:53:32 EDT	Low area bordering rock barrensRed oak, juniper, jack pine, white pineNo suitable trees

Plot ID	BAT-S-M42-12	2697

Location	Plot Notes
Latitude:45.815124,Longitude:-80.647299,Altitude:193.9,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/04/2015 11:59:58 EDT	Low area bordering rock barrensPoplar, white pine, spruce, red oak

Tree ID	1	2277

Species	Quercus rubra	Location	
DBH (cm)	35	Latitude:45.815203,Longitude:-80.647376,Altitude:194.5,Speed:0.11832222,Accuracy:2.1,Provider:gps,Time:05/04/2015 12:01:59 EDT	
Height (m)	10		
Canopy Cover (%)	30		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	2985

Cavity Height (m)	2

Cavity Notes

Small hole in trunk 3cm wide

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Details		2988
Cavity Height (m)	2	
Cavity Notes		
Small hole in trunk 2 cm wide		
Cavity Details		2991
Cavity Height (m)	2	
Cavity Notes		
Small hole in trunk 3 cm wide		
Plot ID	BAT-S-M42-11	2700
Location	Plot Notes	
Latitude:45.814741,Longitude:-80.64776,Altitude:197.8,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/04/2015 12:15:36 EDT	Swamp area bordering rock barrensRed pine, jack pine, white birch, balsam fir, spruceNo suitable trees	
Plot ID	BAT-S-M42-8	2703
Location	Plot Notes	
Latitude:45.814495,Longitude:-80.647554,Altitude:197.2,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/04/2015 12:26:52 EDT	Swamp areaRed pine, white birch, balsam firNo suitable trees	
Plot ID	BAT-S-M42-10	2706
Location	Plot Notes	
Latitude:45.814644,Longitude:-80.647083,Altitude:197.5,Speed:0.19034444,Accuracy:2.1,Provider:gps,Time:05/04/2015 12:32:32 EDT	Swamp area bordering rock barrensPoplar, jack pine, white pine, red maple, juniper, spruceNo suitable trees	
Plot ID	BAT-S-M42-9	2709

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.814494,Longitude:-80.646606,Altitude:197.2,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/04/2015 12:47:34 EDT	Swamp bordering rock barrens, numerous young red mapleRed maple, spruce , white birchNo suitable trees

Plot ID: BAT-S-M42-6 — 2712

Location	Plot Notes
Latitude:45.814079,Longitude:-80.646153,Altitude:194.4,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/04/2015 12:57:25 EDT	Alder thicket bordering rock barrensAlder, red maple, white birch, jack pine, white pine, tamarack, spruceNo suitable trees

Plot ID: BAT-S-M42-5 — 2715

Location	Plot Notes
Latitude:45.813519,Longitude:-80.645188,Altitude:194.5,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/04/2015 01:32:09 EDT	Swamp bordering rock barrensWhite pine, spruce, poplar, red maple, red pine, white birch, red oak

Tree ID: 1 — 2280

Species	Populus tremuloides	Location	
DBH (cm)	39	Latitude:45.813727,Longitude:-80.645274,Altitude:197.0,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/04/2015 01:11:26 EDT	
Height (m)	12		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details — 2994

Cavity Height (m): 10

Cavity Notes: Small hole in trunk

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		2283
Species	Pinus strobus	Location	
DBH (cm)	28	Latitude:45.813707,Longitude:-80.645281,Altitude:197.0,Speed:0.0926,Accuracy:1.8,Provider:gps,Time:05/04/2015 01:15:17 EDT	
Height (m)	8		
Canopy Cover (%)	80		
# of Cavities	3	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		

Cavity Details	2997
Cavity Height (m)	7
Cavity Notes	Small hole in trunk

Cavity Details	3000
Cavity Height (m)	4
Cavity Notes	Cluster of small holes in trunk

Cavity Details	3003
Cavity Height (m)	4
Cavity Notes	Crack in bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		2286
Species	Quercus rubra	Location	
DBH (cm)	34	Latitude:45.813673,Longitude:-80.645277,Altitude:195.5,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/04/2015 01:22:27 EDT	
Height (m)	6		
Canopy Cover (%)	50		
# of Cavities	4	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	Y		

Cavity Details	3006
Cavity Height (m)	2
Cavity Notes	Hole in trunk 4 cm wide

Cavity Details	3009
Cavity Height (m)	2
Cavity Notes	Cluster of small holes in trunk

Cavity Details	3012
Cavity Height (m)	4
Cavity Notes	Hole in trunk 4 cm wide

Cavity Details	3015
Cavity Height (m)	4
Cavity Notes	Cluster of holes in trunk

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	S-M4, S-M51	Field Crew	KASEY MCKENZIE & CASEY O'DRISCOLL		387
Feature ID	NA	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM8	Wind Speed (beaufort)	1		
Start Date	5/6/2015 8:31:03 AM	Precipitation	0		
End Date	5/6/2015 3:01:11 PM	Cloud Cover	10.00		

Plot ID	BAT-S-M4-638		2718
Location		Plot Notes	
Latitude:45.850056,Longitude:-80.570296,Altitude:187.7,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/06/2015 08:14:49 EDT		Mixed wood stand	

Plot ID	BAT-S-M4-637		2721
Location		Plot Notes	
Latitude:45.850333,Longitude:-80.571003,Altitude:193.6,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/06/2015 08:27:34 EDT		On rock barren	

Plot ID	BAT-S-M4-636		2724
Location		Plot Notes	
Latitude:45.850708,Longitude:-80.570819,Altitude:199.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/06/2015 08:30:36 EDT		On rock barren. Mix of mature and immature coniferous and deciduous trees.	

Plot ID	BAT-S-M4-642		2727
Location		Plot Notes	
Latitude:45.849442,Longitude:-80.570107,Altitude:191.3,Speed:0.066877775,Accuracy:2.1,Provider:gps,Time:05/06/2015 08:55:54 EDT		In alder thicket. No cavities.	

Plot ID	BAT-S-M4-641	2730

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.849538,Longitude:-80.571097,Altitude:188.9,Speed:0.051444445,Accuracy:2.7,Provider:gps,Time:05/06/2015 09:08:00 EDT	Shrubby, mixed wood forest

Plot ID	BAT-S-M4-340	2733

Location	Plot Notes
Latitude:45.849641,Longitude:-80.571541,Altitude:188.6,Speed:0.07202222,Accuracy:2.7,Provider:gps,Time:05/06/2015 09:12:24 EDT	Thick shrubs

Plot ID	BAT-S-M4-639	2736

Location	Plot Notes
Latitude:45.849899,Longitude:-80.572055,Altitude:189.3,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/06/2015 09:16:48 EDT	Shrubby thicket

Plot ID	BAT-S-M4-632	2739

Location	Plot Notes
Latitude:45.850322,Longitude:-80.57487,Altitude:187.3,Speed:0.0051444443,Accuracy:1.8,Provider:gps,Time:05/06/2015 09:26:05 EDT	Shrubby disturbed mixed wood

Tree ID	1	2289

Species	Populus tremuloides	Location	
DBH (cm)	53	Latitude:45.850221,Longitude:-80.574675,Altitude:188.9,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/06/2015 09:28:18 EDT	
Height (m)	20		
Canopy Cover (%)	70		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	3018

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	10
Cavity Notes	2 small openings, one above the other

Plot ID	BAT-S-M4-633	2742

Location	Plot Notes
Latitude:45.850073,Longitude:-80.5747,Altitude:192.7,Speed:0.2417889,Accuracy:2.1,Provider:gps,Time:05/06/2015 09:45:27 EDT	Open disturbed area with a few trees

Plot ID	BAT-S-M4-634	2745

Location	Plot Notes
Latitude:45.849884,Longitude:-80.574094,Altitude:190.2,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/06/2015 09:51:55 EDT	Disturbed area with a few trees

Plot ID	BAT-S-M51-650	2763

Location	Plot Notes
Latitude:45.846722,Longitude:-80.57123,Altitude:185.6,Speed:0.0051444443,Accuracy:2.1,Provider:gps,Time:05/06/2015 11:21:16 EDT	Shrubby mixed wood

Plot ID	BAT-S-M51-648	2766

Location	Plot Notes
Latitude:45.846519,Longitude:-80.570376,Altitude:190.9,Speed:0.1852,Accuracy:2.1,Provider:gps,Time:05/06/2015 11:32:39 EDT	Mixed wood forest

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2301
Species	Populus sp	Location	
DBH (cm)	26	Latitude:45.846576,Longitude:-80.570184,Altitude:190.9,Speed:0.12346666,Accuracy:2.7,Provider:gps,Time:05/06/2015 11:34:15 EDT	
Height (m)	13		
Canopy Cover (%)	50		
# of Cavities	3	Notes	
Decay Class	3 Very recent dead tree		
Suitable location for audio monitor?	N		
Cavity Details			3036
Cavity Height (m)	12		
Cavity Notes	Small hole at top where top of tree broke off		
Tree ID	2		2304
Species	Populus tremuloides	Location	
DBH (cm)	42	Latitude:45.846583,Longitude:-80.570171,Altitude:190.9,Speed:0.11317778,Accuracy:2.4,Provider:gps,Time:05/06/2015 11:36:50 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3039
Cavity Height (m)	13		
Cavity Notes	2x4inch hole at base of dead branch		
Plot ID	BAT-S-M51-649		2769

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.846199,Longitude:-80.570591,Altitude:201.5,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/06/2015 11:46:17 EDT	Mixed wood stand side of rock barren

Plot ID: BAT-S-M51-655 — 2772

Location	Plot Notes
Latitude:45.845811,Longitude:-80.569761,Altitude:202.7,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/06/2015 11:51:44 EDT	Conifer stand

Plot ID: BAT-S-M51-656 — 2775

Location	Plot Notes
Latitude:45.844995,Longitude:-80.569345,Altitude:201.6,Speed:0.03601111,Accuracy:1.8,Provider:gps,Time:05/06/2015 12:42:11 EDT	Pine and balsam fir on side of rock barren

Plot ID: BAT-S-M51-659 — 2778

Location	Plot Notes
Latitude:45.847132,Longitude:-80.566961,Altitude:189.2,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/06/2015 01:26:54 EDT	In alder thicket surrounded by mature mixed wood stand. No cavities.

Plot ID: BAT-S-M51-660 — 2781

Location	Plot Notes
Latitude:45.846755,Longitude:-80.566503,Altitude:188.8,Speed:0.1389,Accuracy:1.8,Provider:gps,Time:05/06/2015 01:35:36 EDT	In alder thicket with mature mixed wood stand.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2307
Species	Fraxinus nigra	
DBH (cm)	38	
Height (m)	20	
Canopy Cover (%)	60	
# of Cavities	1	
Decay Class	2 Declining tree	
Suitable location for audio monitor?	N	

Location

Latitude:45.846703,Longitude:-80.56646,Altitude:190.2,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/06/2015 01:40:18 EDT

Notes

Large declining Black ash.

Cavity Details 3042

Cavity Height (m) 18

Cavity Notes

Small rectangular hole near top of tree.

Plot ID BAT-S-M51-658 2784

Location

Latitude:45.846138,Longitude:-80.566213,Altitude:189.7,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/06/2015 01:54:37 EDT

Plot Notes

On edge of alder thicket. Mature mixed wood stand.

Plot ID BAT-S-M51-657 2787

Location

Latitude:45.845798,Longitude:-80.565589,Altitude:192.9,Speed:0.07716667,Accuracy:1.8,Provider:gps,Time:05/06/2015 02:05:44 EDT

Plot Notes

In small clearing in alder thicket. Mix of mature and immature hardwoods.

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2310
Species	Fraxinus nigra	Location	
DBH (cm)	45	Latitude:45.845798,Longitude:-80.565589,Altitude:192.9,Speed:0.05658889,Accuracy:1.8,Provider:gps,Time:05/06/2015 02:06:07 EDT	
Height (m)	19		
Canopy Cover (%)	60		
# of Cavities	3	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		3045
Cavity Height (m)	14	
Cavity Notes		
Small circular holes in a straight line.		

Plot ID	BAT-S-M51-653	2790
Location	Plot Notes	
Latitude:45.848343,Longitude:-80.568864,Altitude:187.1,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/06/2015 02:28:12 EDT	In alder thicket on edge of swamp. Mature pine stand surrounding.	

Plot ID	BAT-S-M51-654	2793
Location	Plot Notes	
Latitude:45.848684,Longitude:-80.569103,Altitude:193.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/06/2015 02:35:24 EDT	In alder thicket surrounded by mature mixed wood stand.	

Plot ID	BAT-S-M51-652	2796
Location	Plot Notes	
Latitude:45.84912,Longitude:-80.569018,Altitude:184.4,Speed:0.015433333,Accuracy:2.1,Provider:gps,Time:05/06/2015 02:45:44 EDT	Next to rock barren. Mature mixed wood stand.	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Plot ID	BAT-S-M51-651	2799

Location	Plot Notes
Latitude:45.849059,Longitude:-80.569595,Altitude:185.2,Speed:0.0463,Accuracy:2.1,Provider:gps,Time:05/06/2015 02:56:36 EDT	Next to alder thicket. Mature mixed wood stand surrounding.

Map Number	BAT-S-M46	Field Crew	JOHANNA PERZ, ROB CONOHAN, KEVIN FLOOD	405

Feature ID	BAT-S-M64-103	Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes
Tablet	AECOM9	Wind Speed (beaufort)	1	Cool, sunny
Start Date	5/13/2015 11:00:42 AM	Precipitation	0	
End Date	5/13/2015 5:01:50 PM	Cloud Cover	0.00	

Plot ID	BAT-S-M46-103	3033

Location	Plot Notes
Latitude:45.825402,Longitude:-80.68884,Altitude:190.6,Speed:0.0051444443,Accuracy:1.5,Provider:gps,Time:05/13/2015 11:02:50 EDT	Mostly White and Red Pine. Almost all trees of unsuitable size.

Tree ID	1	2409

Species	Pinus resinosa	Location	
DBH (cm)	25	Latitude:45.825404,Longitude:-80.688845,Altitude:189.8,Speed:0.16462222,Accuracy:1.5,Provider:gps,Time:05/13/2015 11:07:03 EDT	
Height (m)	15		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree		
Suitable location for audio monitor?	N		

Cavity Details	3168

Cavity Height (m)	3
Cavity Notes	
Peeling Bark	

Execution Time	9/10/2015 12:20:04 PM	Filter Start Date	4/1/2015
		Filter End Date	5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Map Number	S-M16	Field Crew	KRISTAN WASHBURN & KASEY MCKENZIE		408
Feature ID	BAT-S-M16-283	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM20	Wind Speed (beaufort)	2		
Start Date	5/13/2015 10:03:02 AM	Precipitation	0		
End Date	5/13/2015 10:21:32 AM	Cloud Cover	0.00		
Plot ID	BAT-S-M16-283				3036

Location	Plot Notes
Latitude:45.834982,Longitude:-80.634528,Altitude:182.8,Speed:0.020577777,Accuracy:1.8,Provider:gps,Time:05/13/2015 10:05:07 EDT	

Tree ID	1		2412
Species	Populus tremuloides	Location	
DBH (cm)	27	Latitude:45.834982,Longitude:-80.634528,Altitude:182.8,Speed:0.041155554,Accuracy:1.8,Provider:gps,Time:05/13/2015 10:05:24 EDT	
Height (m)	16		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			3171
Cavity Height (m)	5		

Cavity Notes

Crevice in tree

Tree ID	2		2415

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Species	Populus tremuloides	Location	
DBH (cm)	26	Latitude:45.834937,Longitude:-80.6346,Altitude:183.0,Speed:0.030866666,Accuracy:1.8,Provider:gps,Time:05/13/2015 10:08:14 EDT	
Height (m)	16		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Tree ID	3		2484
Species	Acer rubrum	Location	
DBH (cm)	32	Latitude:45.834929,Longitude:-80.634523,Altitude:182.8,Speed:0.051444445,Accuracy:1.8,Provider:gps,Time:05/13/2015 10:10:18 EDT	
Height (m)	10		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3270
Cavity Height (m)	5		
Cavity Notes			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		2487
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.834847,Longitude:-80.634404,Altitude:182.9,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/13/2015 10:14:02 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			3273
Cavity Height (m)	10		
Cavity Notes			

Tree ID	5		2490
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.834754,Longitude:-80.634551,Altitude:180.7,Speed:0.07202222,Accuracy:2.1,Provider:gps,Time:05/13/2015 10:17:14 EDT	
Height (m)	18		
Canopy Cover (%)	60		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			3276
Cavity Height (m)	10		
Cavity Notes			

Map Number	BAT-S-M11	Field Crew	JULIE AYESHA CORY	411

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	5.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	0		
Start Date	5/13/2015 8:42:51 AM	Precipitation	0		
End Date	5/13/2015 4:30:34 PM	Cloud Cover	0.00		

Plot ID	BAT-S-M11-550	3039

Location	Plot Notes
Latitude:45.854002,Longitude:-80.622759,Altitude:192.0,Speed:0.13375555,Accuracy:1.75,Provider:gps,Time:05/13/2015 08:44:17 EDT	On a slope with white pine red maple and juniper

Map Number	BAT-N-M1, M2	Field Crew	AYESHA JULIE	414

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	8.00	Weather Notes	
Tablet	AECOM12	Wind Speed (beaufort)	1		
Start Date	5/13/2015 1:00:40 PM	Precipitation	0		
End Date	5/13/2015 3:00:57 PM	Cloud Cover	0.00		

Plot ID	BAT-N-M2-227	3042

Location	Plot Notes
	Forgot to take centroid but plot was right on the star

Tree ID	1	2418

Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.884668,Longitude:-80.578098,Altitude:195.0,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/13/2015 12:49:45 EDT	
Height (m)	22		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	Y		

Cavity Details	3174

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	5
Cavity Notes	Peeling bark

Tree ID	2		2421
Species	Acer rubrum	Location	
DBH (cm)	30	Latitude:45.88465,Longitude:-80.578108,Altitude:194.5,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/13/2015 12:52:34 EDT	
Height (m)	8		
Canopy Cover (%)	50		
# of Cavities		Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	Y		

Cavity Details	3177
Cavity Height (m)	2
Cavity Notes	Crack extending up

Cavity Details	3180
Cavity Height (m)	2
Cavity Notes	Crack extending up

Plot ID	BAT-N-M1-248	3045
Location	Plot Notes	
Latitude:45.888041,Longitude:-80.574845,Altitude:186.3,Speed:0.015433333,Accuracy:2.0,Provider:gps,Time:05/13/2015 01:09:53 EDT	Near creek, rock barren and forests adjacent	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2424
Species	Betula allegheniensis snag	Location	
DBH (cm)	57	Latitude:45.888046,Longitude:-80.57483,Altitude:186.7,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:05/13/2015 01:11:23 EDT	
Height (m)	10		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree	Large edge of creek and rock face. Forest and rock barren adjacent	
Suitable location for audio monitor?	Y		
Cavity Details			3183
Cavity Height (m)	6		
Cavity Notes	Pair of cavities leading inward		
Cavity Details			3186
Cavity Height (m)	1		
Cavity Notes	Large hole near base		
Tree ID	2		2427
Species	Betula allegheniensis	Location	
DBH (cm)	61	Latitude:45.887948,Longitude:-80.574737,Altitude:195.7,Speed:0.21092223,Accuracy:1.75,Provider:gps,Time:05/13/2015 01:21:31 EDT	
Height (m)	25		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Peeling bark	
Suitable location for audio monitor?	N		
Cavity Details			3189

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Peeling bark on trunk and branches

Map Number	BAT-N-M1	Field Crew	JULIE AYESHA	417

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	12.00	Weather Notes
Tablet	AECOM12	Wind Speed (beaufort)	1	
Start Date	5/13/2015 1:00:31 PM	Precipitation	0	
End Date	5/13/2015 3:00:51 PM	Cloud Cover	0.00	

Plot ID	BAT-N-M1-246	3048

Location	Plot Notes
Latitude:45.887831,Longitude:-80.572953,Altitude:193.0,Speed:0.15947777,Accuracy:3.3,Provider:gps,Time:05/13/2015 01:54:58 EDT	White pine stand with young balsam fir on bank above wetland

Map Number	BAT-S-M42	Field Crew	ROB CONOHAN, JOHANNA PERZ, DAVE NORMAN	420

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	6.00	Weather Notes
Tablet	AECOM9	Wind Speed (beaufort)	3	
Start Date	5/14/2015 10:51:16 AM	Precipitation	0	
End Date	5/14/2015 5:51:19 PM	Cloud Cover	15.00	

Plot ID	BAT-S-M42-0	3051

Location	Plot Notes
Latitude:45.811835,Longitude:-80.644005,Altitude:200.3,Speed:0.041155554,Accuracy:2.1,Provider:gps,Time:05/14/2015 10:53:01 EDT	Red pine community, no suitable trees

Plot ID	BAT-S-M42-2	3054

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.811679,Longitude:-80.643965,Altitude:195.1,Speed:0.030866666,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:06:18 EDT	Red pine, Jack Pine FOC

Plot ID	BAT-S-M42-3	3057

Location	Plot Notes
Latitude:45.811689,Longitude:-80.643107,Altitude:204.9,Speed:0.05658889,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:13:53 EDT	White spruce>White birch FOM beside rock barren vegetation community

Tree ID	1	2430

Species	Betula Papyrifera	Location
DBH (cm)	35	Latitude:45.811663,Longitude:-80.643019,Altitude:200.5,Speed:0.010288889,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:17:12 EDT
Height (m)	15	
Canopy Cover (%)	50	
# of Cavities	1	Notes
Decay Class	1 Healthy, live tree	
Suitable location for audio monitor?	N	

Cavity Details	3192

Cavity Height (m)	5

Cavity Notes

Cavity in crevace

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		2433
Species	Betula alleghaniensis	Location	
DBH (cm)	38	Latitude:45.811676,Longitude:-80.642934,Altitude:192.9,Speed:0.020577777,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:21:36 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	Y		
Cavity Details			3195
Cavity Height (m)	10		
Cavity Notes	Large crack in upper canopy of tree		
Tree ID	3		2436
Species	Acer rubra	Location	
DBH (cm)	33	Latitude:45.811622,Longitude:-80.64287,Altitude:188.8,Speed:0.07716667,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:27:05 EDT	
Height (m)	12		
Canopy Cover (%)	45		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			3198
Cavity Height (m)	3		
Cavity Notes	Crack in tree		
Plot ID	BAT-S-M42-4		3060

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.811768,Longitude:-80.642509,Altitude:185.2,Speed:0.03601111,Accuracy:2.1,Provider:gps,Time:05/14/2015 11:49:31 EDT	White spruce>White birch FOM beside rock barren vegetation community

Plot ID: BAT-S-M42-1 — 3063

Location	Plot Notes
Latitude:45.811712,Longitude:-80.642012,Altitude:189.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/14/2015 11:55:47 EDT	White spruce>White birch FOM beside rock barren vegetation community

Map Number: BAT-S-M39 — Field Crew: ROB CONOHAN, JOHANNA PERZ — 423

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	15.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	3		
Start Date	5/14/2015 2:54:30 PM	Precipitation	0		
End Date	5/14/2015 6:09:48 PM	Cloud Cover	0.00		

Plot ID: BAT-S-M39-19 — 3066

Location	Plot Notes
Latitude:45.81806,Longitude:-80.666763,Altitude:177.6,Speed:0.5247333,Accuracy:2.4,Provider:gps,Time:05/14/2015 02:54:54 EDT	White Spruce>white pine FOC

Tree ID: 1 — 2439

Species	Pinus strobus	Location	
DBH (cm)	46	Latitude:45.818063,Longitude:-80.666736,Altitude:176.7,Speed:0.030866666,Accuracy:2.4,Provider:gps,Time:05/14/2015 02:56:18 EDT	
Height (m)	20		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Large mature healthy white pine	
Suitable location for audio monitor?	N		

Cavity Details — 3201

Execution Time: 9/10/2015 12:20:04 PM

Filter Start Date: 4/1/2015

Filter End Date: 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	8
Cavity Notes	Crack in white pine

Map Number	BAT-S-M6	Field Crew	ADAM MCCLELLAND, NATALIYA SIMONOVA	426

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes	
Tablet	AECOM11	Wind Speed (beaufort)	0		
Start Date	5/15/2015 8:40:20 AM	Precipitation	0		
End Date	5/15/2015 10:00:07 AM	Cloud Cover	100.00		

Plot ID	BAT-S-M6-410	3069

Location	Plot Notes
Latitude:45.847215,Longitude:-80.591949,Altitude:194.4,Speed:0.025722222,Accuracy:1.5,Provider:gps,Time:05/15/2015 08:50:57 EDT	Mixed swamp, vernal pools in plot, adjacent to wetlandRed maple, balsam fir, white birch, yellow birch, white pi

Tree ID	1	2442

Species	Acer rubra	Location	
DBH (cm)	28	Latitude:45.84718,Longitude:-80.591863,Altitude:194.7,Speed:0.010288889,Accuracy:1.8,Provider:gps,Time:05/15/2015 08:53:35 EDT	
Height (m)	16		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details		3204
Cavity Height (m)	4	
Cavity Notes	Vertical crack in trunk 20 cm long	

Plot ID	BAT-S-M6-417	3072

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.847398,Longitude:-80.592169,Altitude:194.8,Speed:0.025722222,Accuracy:1.8,Provider:gps,Time:05/15/2015 08:59:23 EDT	Mixed swamp, vernal pools on edge of plot, plot adjacent to wetlandRed maple, balsam fir, white birch, yellow birch, trembling aspen, white cedar

Tree ID	1	2445

Species	Betula papyrifera	Location
DBH (cm)	27	Latitude:45.847405,Longitude:-80.592229,Altitude:195.8,Speed:0.015433333,Accuracy:1.8,Provider:gps,Time:05/15/2015 09:04:24 EDT
Height (m)	8	
Canopy Cover (%)	70	
# of Cavities	2	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details	3207

Cavity Height (m)	2

Cavity Notes

Hole in trunk where bark has peeled away

Cavity Details	3210

Cavity Height (m)	4

Cavity Notes

Several small holes in trunk

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1	2448
Species	Populus tremuloides	
DBH (cm)	38	
Height (m)	7	
Canopy Cover (%)	90	
# of Cavities	2	
Decay Class	6 Very old dead tree	
Suitable location for audio monitor?	N	

Location: Latitude:45.847479,Longitude:-80.592272,Altitude:198.1,Speed:0.12346666,Accuracy:1.8,Provider:gps,Time:05/15/2015 09:11:02 EDT

Notes: Tree is hollow

Cavity Details 3213

Cavity Height (m): 5

Cavity Notes: Hole in trunk 10 cm wide

Cavity Details 3216

Cavity Height (m): 7

Cavity Notes: Two holes in trunk 15 cm wide at top of tree, top of trunk appears to be covered

Plot ID: BAT-S-M6-422 3075

Location: Latitude:45.8476,Longitude:-80.594344,Altitude:201.4,Speed:0.0463,Accuracy:1.8,Provider:gps,Time:05/15/2015 09:28:10 EDT

Plot Notes: Localized mixed swamp, large vernal pool in centre of plotWhite cedar, white birch, balsam fir, red maple, trembling aspen

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2451
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.847502,Longitude:-80.594472,Altitude:202.0,Speed:0.12861112,Accuracy:1.8,Provider:gps,Time:05/15/2015 09:34:10 EDT	
Height (m)	9		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	6 Very old dead tree	Tree is hollow	
Suitable location for audio monitor?	N		

Cavity Details	3219
Cavity Height (m)	6
Cavity Notes	
Hole in trunk 8 cm wide	

Cavity Details	3222
Cavity Height (m)	8
Cavity Notes	
Hole in trunk 6 cm wide	

Plot ID	BAT-S-M6-433		3078
Location		Plot Notes	
Latitude:45.847886,Longitude:-80.593456,Altitude:202.8,Speed:0.041155554,Accuracy:2.4,Provider:gps,Time:05/15/2015 09:47:26 EDT		Mixed swamp adjacent to wetland, several small vernal pools in plotRed maple, balsam fir, yellow birch, white birch, trembling aspen	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	1		2454
Species	Acer rubra	Location	
DBH (cm)	34	Latitude:45.847857,Longitude:-80.593371,Altitude:201.8,Speed:0.0463,Accuracy:2.4,Provider:gps,Time:05/15/2015 09:53:16 EDT	
Height (m)	6		
Canopy Cover (%)	85		
# of Cavities	3	Notes	
Decay Class	6 Very old dead tree	Tree seems hollow, top of trunk appears to be covered	
Suitable location for audio monitor?	N		

Cavity Details		3225
Cavity Height (m)	3	
Cavity Notes	Hole in trunk 5 cm wide	

Cavity Details		3228
Cavity Height (m)	5	
Cavity Notes	Vertical crack in trunk 30 cm long, 5 cm wide	

Cavity Details		3231
Cavity Height (m)	5	
Cavity Notes	Hole in trunk 10 cm wide	

Map Number	BAT-S-M08, BAT-S-M09	Field Crew	JOHANNA PERZ, ROB CONOHAN	429

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Feature ID		Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	13.00	Weather Notes	
Tablet	AECOM9	Wind Speed (beaufort)	1		
Start Date	5/15/2015 9:38:53 AM	Precipitation	0		
End Date	5/15/2015 11:39:01 AM	Cloud Cover	100.00		

Plot ID	BAT-S-M09-394	3081

Location	Plot Notes
Latitude:45.846861,Longitude:-80.61243,Altitude:191.1,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:05:52 EDT	Wet maple stand, mostly trees with dbh <25

Plot ID	BAT-S-M08-428	3084

Location	Plot Notes
Latitude:45.847767,Longitude:-80.611115,Altitude:195.9,Speed:0.15947777,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:20:12 EDT	

Tree ID	1	2457

Species	Populus grandidentata	Location	
DBH (cm)	31	Latitude:45.847741,Longitude:-80.611091,Altitude:194.0,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:17:40 EDT	
Height (m)	7		
Canopy Cover (%)	20		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details	3234

Cavity Height (m)	6

Cavity Notes

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Details			3237
Cavity Height (m)	7		
Cavity Notes			
Into central cavity			

Tree ID	2		2460
Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.847769,Longitude:-80.611227,Altitude:194.4,Speed:0.67392224,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:21:28 EDT	
Height (m)	15		
Canopy Cover (%)	90		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details			3240
Cavity Height (m)	5		
Cavity Notes			
Long thin cavity, may be connect to other through central cavity			

Cavity Details			3243
Cavity Height (m)	6		
Cavity Notes			
Small circular cavity			

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3		2463
Species	Betula papyrifera	Location	
DBH (cm)	35	Latitude:45.847805,Longitude:-80.611103,Altitude:194.5,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:24:45 EDT	
Height (m)	12		
Canopy Cover (%)	25		
# of Cavities	3	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			3246
Cavity Height (m)	11		
Cavity Notes	Other small cavities/old Woodpecker holes throughout tree		
Tree ID	4		2466
Species	Betula papyrifera	Location	
DBH (cm)	38	Latitude:45.847678,Longitude:-80.611239,Altitude:197.1,Speed:0.8848444,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:31:53 EDT	
Height (m)	14		
Canopy Cover (%)	50		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			3249
Cavity Height (m)	8		
Cavity Notes	Peeling bark and crevices		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	5		2469
Species	Betula papyrifera	Location	
DBH (cm)	38	Latitude:45.847714,Longitude:-80.611217,Altitude:197.6,Speed:0.03601111,Accuracy:1.5,Provider:gps,Time:05/15/2015 09:32:28 EDT	
Height (m)	20		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree	Connected to tree 4 but below breast height	
Suitable location for audio monitor?	N		
Cavity Details			3252
Cavity Height (m)	13		
Cavity Notes			
Peeling bark			
Plot ID	BAT-S-M08-495		3087
Location		Plot Notes	
Latitude:45.850262,Longitude:-80.601995,Altitude:200.9,Speed:0.015433333,Accuracy:1.5,Provider:gps,Time:05/15/2015 10:02:45 EDT			
Tree ID	1		2472
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.850269,Longitude:-80.601958,Altitude:201.0,Speed:0.07202222,Accuracy:1.75,Provider:gps,Time:05/15/2015 10:03:58 EDT	
Height (m)	20		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			3255

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	1
Cavity Notes	Into central cavity

Tree ID	2		2475
Species	Betula papyrifera	Location	
DBH (cm)	24	Latitude:45.850352,Longitude:-80.601865,Altitude:201.1,Speed:0.0926,Accuracy:2.1,Provider:gps,Time:05/15/2015 10:06:41 EDT	
Height (m)	12		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		
Cavity Details			3258

Cavity Height (m)	8
Cavity Notes	

Tree ID	3		2478
Species	Acer rubrum	Location	
DBH (cm)	26	Latitude:45.85028,Longitude:-80.601728,Altitude:202.8,Speed:0.06173333,Accuracy:1.5,Provider:gps,Time:05/15/2015 10:12:41 EDT	
Height (m)	13		
Canopy Cover (%)	75		
# of Cavities	2	Notes	
Decay Class	2 Declining tree	One main branch dead	
Suitable location for audio monitor?	N		
Cavity Details			3261

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	2 entrances into central cavity

Cavity Details 3264

Cavity Height (m)	8
Cavity Notes	Into central cavity

Tree ID	4		2481
Species	Betula papyrifera	Location	
DBH (cm)	30	Latitude:45.850268,Longitude:-80.601828,Altitude:205.0,Speed:0.010288889,Accuracy:1.5,Provider:gps,Time:05/15/2015 10:21:50 EDT	
Height (m)	22		
Canopy Cover (%)	70		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		

Cavity Details 3267

Cavity Height (m)	18
Cavity Notes	At base of dead branch

Map Number	BAT-S-M49	Field Crew	ADAM, AYESHA		432
Feature ID	BAT-S-M49-254	Study Area	WEC		
Project Number	60341251	Air Temp. (degC)	11.00	Weather Notes	
Tablet	AECOM6	Wind Speed (beaufort)	5		
Start Date	5/19/2015 2:12:11 PM	Precipitation	0		
End Date	5/19/2015 2:33:55 PM	Cloud Cover	100.00		
Plot ID	BAT-S-M49-254				3090

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Location	Plot Notes
Latitude:45.832711,Longitude:-80.712361,Altitude:198.1,Speed:0.051444445,Accuracy:1.5,Provider:gps,Time:05/19/2015 02:14:06 EDT	Coniferous forest bordering rock barren, dominated by white pine. Small swamp thicket at edge of plotWhite pine, tamarack, white birch, red maple, jack pine

Tree ID	1		2493
Species	Pinus strobus	Location	
DBH (cm)	32	Latitude:45.832712,Longitude:-80.712391,Altitude:193.6,Speed:0.020577777,Accuracy:1.75,Provider:gps,Time:05/19/2015 02:18:59 EDT	
Height (m)	8		
Canopy Cover (%)	40		
# of Cavities	2	Notes	
Decay Class	5 Older dead tree		
Suitable location for audio monitor?	N		

Cavity Details		3279
Cavity Height (m)	5	
Cavity Notes	Peeling bark at base of branch	

Cavity Details		3282
Cavity Height (m)	3	
Cavity Notes	Peeling bark on trunk	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	2		2496
Species	Pinus strobus	Location	
DBH (cm)	27	Latitude:45.832744,Longitude:-80.712485,Altitude:191.0,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:05/19/2015 02:25:29 EDT	
Height (m)	10		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3285
Cavity Height (m)	4		
Cavity Notes	Hole in trunk where park has peeled away		
Cavity Details			3288
Cavity Height (m)	4		
Cavity Notes	Crack in trunk where bark has peeled away		
Tree ID	3		2499
Species	Pinus strobus	Location	
DBH (cm)	32	Latitude:45.832801,Longitude:-80.712469,Altitude:192.4,Speed:0.020577777,Accuracy:1.5,Provider:gps,Time:05/19/2015 02:29:24 EDT	
Height (m)	11		
Canopy Cover (%)	60		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3291

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	4
Cavity Notes	Hole in trunk where bark has peeled away

Cavity Details 3294

Cavity Height (m)	5
Cavity Notes	Hole in trunk where bark has peeled away

Map Number	BAT-S-M16	Field Crew	JOHANNA PERZ, HEATHER KIME	435

Feature ID		Study Area	WEC	
Project Number	60341251	Air Temp. (degC)	10.00	Weather Notes
Tablet	AECOM5	Wind Speed (beaufort)	5	
Start Date	5/19/2015 9:58:26 AM	Precipitation	0	
End Date	5/19/2015 11:26:17 AM	Cloud Cover	95.00	

Plot ID	BAT-S-M16-283	3093

Location	Plot Notes
Latitude:45.835052,Longitude:-80.634338,Altitude:196.8,Speed:0.010288889,Accuracy:1.75,Provider:gps,Time:05/19/2015 11:07:10 EDT	Mostly deciduous swamp, lots of cavity trees, plot may be suitable for acoustic monitoring device

Tree ID	1	2502

Species	Acer rubrum	Location	
DBH (cm)	25	Latitude:45.834727,Longitude:-80.634717,Altitude:195.2,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:10:34 EDT	
Height (m)	11		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree	Consists of two trunks above breast height	
Suitable location for audio monitor?	N		

Cavity Details 3297

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	0
Cavity Notes	Low to ground, into central cavity

Tree ID	2		2505
Species	Populous tremuloides	Location	
DBH (cm)	35	Latitude:45.834685,Longitude:-80.634763,Altitude:195.4,Speed:0.67392224,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:17:22 EDT	
Height (m)	15		
Canopy Cover (%)	50		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	3300
Cavity Height (m)	5
Cavity Notes	Gash Ã¬n bark

Cavity Details	3303
Cavity Height (m)	2
Cavity Notes	Crevice in bark

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	3	2508
Species	Populus tremuloides	Location
DBH (cm)	33	Latitude:45.834683,Longitude:-80.634865,Altitude:193.9,Speed:0.16976666,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:21:36 EDT
Height (m)	13	
Canopy Cover (%)	30	
# of Cavities	3	Notes
Decay Class	5 Older dead tree	
Suitable location for audio monitor?	N	

Cavity Details		3306
Cavity Height (m)	3	
Cavity Notes	Gash in bark	

Cavity Details		3309
Cavity Height (m)	4	
Cavity Notes	Small deep cavity	

Cavity Details		3312
Cavity Height (m)	9	
Cavity Notes	Gash below and woodpecker hole above	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	4		2511
Species	Populus tremuloides	Location	
DBH (cm)	28	Latitude:45.83464,Longitude:-80.634634,Altitude:198.5,Speed:0.2880889,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:29:37 EDT	
Height (m)	12		
Canopy Cover (%)	20		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3315
Cavity Height (m)	5		
Cavity Notes			

Tree ID	5		2514
Species	Populus tremuloides	Location	
DBH (cm)	31	Latitude:45.834769,Longitude:-80.634544,Altitude:195.4,Speed:0.0926,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:34:25 EDT	
Height (m)	11		
Canopy Cover (%)	75		
# of Cavities	1	Notes	
Decay Class	1 Healthy, live tree		
Suitable location for audio monitor?	N		
Cavity Details			3318
Cavity Height (m)	8		
Cavity Notes	Large shallow gash at base of crown, some crevices provide adequate cover		

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Tree ID	6		2517
Species	Populus tremuloides	Location	
DBH (cm)	25	Latitude:45.834853,Longitude:-80.634438,Altitude:198.9,Speed:0.0463,Accuracy:1.5,Provider:gps,Time:05/19/2015 10:50:59 EDT	
Height (m)	14		
Canopy Cover (%)	80		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3321
Cavity Height (m)	2		
Cavity Notes			

Tree ID	7		2520
Species	Acer rubrum	Location	
DBH (cm)	36	Latitude:45.834922,Longitude:-80.634451,Altitude:195.7,Speed:0.47843334,Accuracy:1.75,Provider:gps,Time:05/19/2015 10:59:14 EDT	
Height (m)	11		
Canopy Cover (%)	95		
# of Cavities	2	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3324
Cavity Height (m)	4		
Cavity Notes	Split in trunk that may have cover		
Cavity Details			3327

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	6
Cavity Notes	Rotted out branch

Tree ID	8		2523
Species	Populus spp.	Location	
DBH (cm)	27	Latitude:45.834947,Longitude:-80.634278,Altitude:199.7,Speed:0.0926,Accuracy:1.75,Provider:gps,Time:05/19/2015 11:02:20 EDT	
Height (m)	5		
Canopy Cover (%)	0		
# of Cavities	1	Notes	
Decay Class	6 Very old dead tree	Large open central cavity	
Suitable location for audio monitor?	N		
Cavity Details			3330

Cavity Height (m)	2
Cavity Notes	Loose bark

Tree ID	9		2526
Species	Acer rubrum	Location	
DBH (cm)	29	Latitude:45.835185,Longitude:-80.634366,Altitude:200.4,Speed:0.13375555,Accuracy:1.75,Provider:gps,Time:05/19/2015 11:09:33 EDT	
Height (m)	13		
Canopy Cover (%)	90		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		
Cavity Details			3333

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

BAT DENSITY SURVEY - WEC

AECOM

Cavity Height (m)	2
Cavity Notes	Into central cavity, very shaggy bark that may provide suitable cover

Tree ID	10		2529
Species	Acer rubrum	Location	
DBH (cm)	28	Latitude:45.835315,Longitude:-80.634282,Altitude:200.5,Speed:0.06173333,Accuracy:1.75,Provider:gps,Time:05/19/2015 11:16:16 EDT	
Height (m)	12		
Canopy Cover (%)	85		
# of Cavities	1	Notes	
Decay Class	2 Declining tree		
Suitable location for audio monitor?	N		

Cavity Details	3336

Cavity Height (m)	3
Cavity Notes	

Execution Time 9/10/2015 12:20:04 PM

Filter Start Date 4/1/2015

Filter End Date 5/20/2015

Appendix C

Vascular Plant Species List

Appendix C1

2014 Vascular Plant Species List

Appendix C1: 2014 Vascular Plant Inventory for the HIWEC Study Area

Botanical Name		Common Name	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	PROVINCIAL STATUS	OMNR STATUS	COSEWIC STATUS	GLOBAL STATUS	LOCAL STATUS 5E	RBT3-2 Jack Pine Acidic Treed Rock Barren	FET1-1 Tamarack Treed Fen	BOT1-1 Black Spruce Treed Bog	FEO1-2 Slender Sedge Open Fen	MAS Sedge Marsh	MAS3-1 Cattail Organic Shallow Marsh	COD3-1 Dry-Fresh Poplar Deciduous Forest	SWC4-3 Black Spruce Organic Coniferous Swamp	SWD5-1 Black Ash Organic Deciduous Swamp	BOT1-D White Pine Leatherleaf Treed Bog	BOT1-A Tamarack Chain Fern Bog	SWT3-1 Alder Organic Thicket Swamp
		Source:	Oldham et al	Oldham et al	Oldham et al	Newmaster			Newmaster	Crins, 1997												
PTERIDOPHYTES		**FERNS & ALLIES**																				
Blechnaceae		**Deer-fern Family**																				
Woodwardia	*virginica*	Virginia Chain Fern	10	-5		S4			G5				X								X	X
Dennstaedtiaceae		**Bracken Fern Family**																				
Pteridium	*aquilinum var. latiusculum*	Eastern Bracken-fern	2	3		S5			G5T		X					X						
Dryopteridaceae		**Wood Fern Family**																				
Dryopteris	*carthusiana*	Spinulose Wood Fern	5	-2		S5			G5							X		X				
Dryopteris	*cristata*	Crested Wood Fern	7	-5		S5			G5									X				
Dryopteris	*intermedia*	Evergreen Wood Fern	5	0		S5			G5		X											
Dryopteris	*marginalis*	Marginal Wood Fern	5	3		S5			G5		X					X						
Matteuccia	*struthiopteris*	Ostrich Fern	5	-3		S5			G5									X				
Onoclea	*sensibilis*	Sensitive Fern	4	-3		S5			G5									X				
Lycopodiaceae		**Clubmoss Family**																				
Lycopodium	*dendroideum*	Prickly Tree Club-moss	7	0		S5			G5		X											
Lycopodium	*obscurum*	Ground-pine	6	3		S4			G5									X				
Osmundaceae		**Royal Fern Family**									X		X							X		
Osmunda	*regalis var. spectabilis*	Royal Fern	7	-5		S5			G5T													
Polypodiaceae		**Polypody Family**									X						X					
Polypodium	*virginianum*	Rock Polypody Fern	6	5		S5			G5		X						X					
GYMNOSPERMS		**CONIFERS**																				
Cupressaceae		**Cedar Family**																				
Juniperus	*communis*	Common Juniper	4	3		S5			G5		X											
Thuja	*occidentalis*	Eastern White Cedar	4	-3		S5			G5										X	X		
Pinaceae		**Pine Family**																				
Abies	*balsamea*	Balsam Fir	5	-3		S5			G5										X			
Larix	*laricina*	Tamarack	7	-3		S5			G5		X	X	X	X	X			X	X	X	X	
Picea	*glauca*	White Spruce	6	3		S5			G5		X								X			
Picea	*mariana*	Black Spruce	8	-3		S5			G5		X	X	X		X			X			X	
Pinus	*banksiana*	Jack Pine	9	3		S5			G5		X		X									
Pinus	*resinosa*	Red Pine	8	3		S5			G5		X											
Pinus	*strobus*	Eastern White Pine	4	3		S5			G5		X						X				X	
DICOTYLEDONS		**DICOTS**																				
Aceraceae		**Maple Family**																				
Acer	*rubrum*	Red Maple	4	0		S5			G5										X			X
Aquifoliaceae		**Holly Family**																				
Ilex	*verticillata*	Winterberry	5	-4		S5			G5		X	X	X				X	X	X	X		X
Nemopanthus	*mucronatus*	Mountain-holly	8	-5		S5			G5			X	X					X		X		
Araliaceae		**Ginseng Family**																				
Aralia	*hispida*	Bristly Sarsaparilla	8	5		S5			G5		X											
Asteraceae		**Composite or Aster Family**																				

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		Source:	Oldham et al	Oldham et al	Oldham et al	Newmaster			Newmaster	Crins, 1997												
Eurybia	*macrophylla*	Large-leaved Aster	5	5		S5			G5								X		X			
Symphyotrichum	*puniceum var. puniceum*	Purple-stemmed Aster				S5			G5T?										X			
Aster	*umbellatus var. umbellatus*	Flat-top White Aster	6	-3		S5			G5T?								X		X			
Eupatorium	*maculatum*	Spotted Joe-pye-weed	3	-5		S5			G5T5											X		
Hieracium	*scabrum*	Rough Hawkweed	7	5		S4			G5		X											
Lactuca	*canadensis*	Tall Lettuce	3	2		S5			G5		X											
Solidago	*hispida var. hispida*	Hairy Goldenrod	7	5		S5			G5T?		X											
Solidago	*juncea*	Early Goldenrod	3	5		S5			G5		X											
Solidago	*rugosa ssp. rugosa*	Rough Goldenrod	4	-1		S5			G5T?								X					
Betulaceae		**Birch Family**																				
Alnus	*incana spp. rugosa*	Speckled Alder	6	-5		S5			G5T5			X	X	X	X	X			X			X
Betula	*papyrifera var. cordifolia*	Mountain Paper Birch				S4?			G										X			
Betula	*papyrifera*	White Birch		2		S5			G5		X						X					X
Corylus	*cornuta*	Beaked Hazel	5	5		S5			G5T								X					
Caprifoliaceae		**Honeysuckle Family**																				
Diervilla	*lonicera*	Bush Honeysuckle	5	5		S5			G5		X						X					
Viburnum	*nudum var. cassinoides*	Northern Wild Raisin	7	-3		S5			G5		X	X	X						X			X
Cornaceae		**Dogwood Family**									X						X		X			
Cornus	*canadensis*	Bunchberry	7	0		S5			G5													
Cornus	*sericea*	Red-osier Dogwood	2	-3		S5			G5										X			
Ericaceae		**Heath Family**																				
Andromeda	*polifolia ssp. glaucophylla*	Bog Rosemary	10	-5		S5			G5T5			X										
Arctostaphylos	*alpina*	Alpine Bearberry				S4?			G5		X											
Arctostaphylos	*species*										X											
Chamaedaphne	*calyculata*	Leatherleaf	9	-5		S5			G5		X	X	X	X	X			X			X	X
Gaultheria	*procumbens*	Wintergreen	6	3		S5			G5		X		X									
Gaylussacia	*baccata*	Black Huckleberry	8	3		S4			G5		X		X					X				
Kalmia	*angustifolia*	Sheep Laurel	9	0		S5			G5		X	X	X	X	X			X			X	
Kalmia	*polifolia*	Bog Laurel	10	-5		S5			G5			X	X	X								
Ledum	*groenlandicum*	Labrador-tea	9	-5		S5			G5		X	X	X								X	
Vaccinium	*angustifolium*	Low Sweet Blueberry	6	3		S5			G5		X	X					X					
Vaccinium	*macrocarpon*	Large Cranberry	10	-5		S4S5			G4			X	X		X							
Vaccinium	*myrtilloides*	Velvet-leaf Blueberry	7	-2		S5			G5			X	X									
Vaccinium	*oxycoccos*	Small Cranberry	10	-5		S5			G5		X		X									
Fabaceae		**Pea Family**																				
Astragalus	*species*	Milkvetch Species									X											
Fumariaceae		**Fumitory Family**																				
Corydalis	*sempervirens*	Pale Corydalis	7	5		S5			G5		X											
Grossulariaceae		**Currant Family**																				
Ribes	*cynosbati*	Prickly Gooseberry	4	5		S5			G5		X											

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		Source:	Oldham et al	Oldham et al	Oldham et al	Newmaster			Newmaster	Crins, 1997												
Myricaceae		**Wax-myrtle Family**																				
Myrica	*gale*	Sweet Gale	6	-5		S5			G5			X	X	X	X	X						X
Nymphaeaceae		**Water-lily Family**																				
Nymphaea	*species*											X										
Oleaceae		**Olive Family**																				
Fraxinus	*nigra*	Black Ash	7	-4		S5			G5										X			
Fraxinus	*pennsylvanica*	Red Ash	3	-3		S5			G5								X					
Primulaceae		**Primrose Family**																				
Trientalis	*borealis ssp. borealis*	Star-flower	6	-1		S5			G5T?								X					
Rosaceae		**Rose Family**																				
Aronia	*melanocarpa*	Black chokeberry	7	-3		S5			G5		X	X										
Fragaria	*virginiana*	Virginia Strawberry	2	1		SU			G5T?		X						X					
Prunus	*pensylvanica*	Pin Cherry	3	4		S5			G5								X					
Prunus	*serotina*	Black Cherry	3	3		S5			G5								X					
Rosa	*acicularis ssp. sayi*	Prickly Rose	7	3		S5			G5TU		X											
Rubus	*allegheniensis*	Alleghany Blackberry	2	2		S5			G5		X					X	X					
Rubus	*hispidus*	Trailing Blackberry	6	-3		S4S5			G5		X								X			X
Rubus	*idaeus*	Red Raspberry				SE1			G5T5		X					X	X		X			
Rubus	*pubescens*	Dwarf Raspberry	4	-4		S5			G5		X						X		X			
Rubus	*setosus*	Bristly Raspberry	8	-2		S4?			G5	X	X			X								
Spiraea	*alba*	Narrow-leaved Meadow-sweet	3	-4		S5			G5		X					X	X					
Spiraea	*tomentosa*	Tomentose Meadow-sweet	5	-3		S4S5			G5					X								
Salicaceae		**Willow Family**																				
Populus	*grandidentata*	Large-tooth Aspen	5	3		S5			G5		X											
Populus	*tremuloides*	Trembling Aspen	2	0		S5			G5		X						X		X			
Salix	*discolor*	Pussy Willow	3	-3		S5			G5				X					X				X
Salix	*humilis*	Prairie Willow	7	3		S5			G5		X											
Salix	*petiolaris*	Slender Willow	3	-4		S5			G4							X						
Santalaceae		**Sandalwood Family**																				
Comandra	*umbellata*	Bastard Toad-flax	6	3		S5			G5		X											
Sarraceniaceae		**Pitcher-plant Family**																				
Sarracenia	*purpurea*	Pitcher-plant	10	-5		S5			G5			X		X								
MONOCOTYLEDONS		**MONOCOTS**																				
Cyperaceae		**Sedge Family**																				
Carex	*cumulata*	Accumulating Sedge	8	4		S4			G4?		X											
Carex	*disperma*	Soft-leaved Sedge	8	-5		S5			G5			X										
Carex	*eburnea*	Bristle-leaved Sedge	6	4		S5			G5								X					
Carex	*intumescens*	Bladder Sedge	6	-4		S5			G5								X					
Carex	*lasiocarpa*	Slender Sedge	8	-5		S5			G5			X								X		X
Carex	*utriculata*	Beaked Sedge	7	-5		S5			G5					X	X	X						

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		Source:	Oldham et al	Oldham et al	Oldham et al	Newmaster			Newmaster	Crins, 1997												
Dulichium	*arundinaceum*	Reed-like Three-way Sedge	7	-5		S5			G5			X										X
Eriophorum	*vaginatum ssp. spissum*	Sheathed Cotton-grass	10	-5		S5			G5T5				X									
Eriophorum	*virginicum*	Virginia Cotton-grass	10	-5		S5			G5		X		X									X
Eriophorum	*viridi-carinatum*	Thin-leaved Cotton-grass	9	-5		S5			G4			X	X	X								
Rhynchospora	*fusca*	Brown Beaked-rush	10	-5		S4?			G4G5			X		X	X							
Scirpus	*cyperinus*	Wool-grass	4	-5		S5			G5		X	X	X									X
Juncaceae		**Rush Family**																				
Juncus	*canadensis*	Canada Rush	6	-5		S5			G5			X			X							X
Liliaceae		**Lily Family**																				
Maianthemum	*canadense*	Wild Lily-of-the-valley	5	0		S5			G5		X											
Maianthemum	*trifolium*	Three-leaved Solomon's Seal	10	-5		S5			G5				X									
Orchidaceae		**Orchid Family**																				
Cypripedium	*acaule*	Moccasin Flower	7	-3		S5			G5				X									
Poaceae		**Grass Family**																				
Agrostis	*scabra*	Fly-away Grass	6	0		S5			G5		X											
Brachyelytrum	*erectum*	Bearded Short-husk	7	5		S4S5			G5								X					
Calamagrostis	*canadensis*	Blue-joint Grass	4	-5		S5			G5		X		X			X	X					X
Danthonia	*spicata*	Poverty Oat Grass	5	5		S5			G5		X											
Deschampsia	*flexuosa*	Common Hairgrass	8	5		S5			G5		X			X								
Glyceria	*canadensis*	Rattlesnake Grass	7	-5		S4S5			G5			X	X									X
Oryzopsis	*asperifolia*	White-grained Mountain-rice	6	5		S5			G5								X					
Typhaceae		**Cattail Family**																				
Typha	*angustifolia*	Narrow-leaved Cattail	3	-5		S5			G5							X						
Typha	*latifolia*	Broad-leaved Cattail	3	-5		S5			G5							X						

Appendix C1: 2014 Vascular Plant Inventory for the HIWEC Study Area

Botanical Name		Common Name	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	PROVINCIAL STATUS	OMNR STATUS	COSEWIC STATUS	GLOBAL STATUS	LOCAL STATUS 5E	RBT3-2 Jack Pine Acidic Treed Rock Barren	FET1-1 Tamarack Treed Fen	BOT1-1 Black Spruce Treed Bog	FEO1-2 Slender Sedge Open Fen	MAS Sedge Marsh	MAS3-1 Cattail Organic Shallow Marsh	FOD3-1 Dry-Fresh Poplar Deciduous Forest	SWC4-3 Black Spruce Organic Coniferous Swamp	SWD5-1 Black Ash Organic Deciduous Swamp	BOT1-D White Pine Leatherleaf Treed Bog	BOT1-A Tamarack Chain Fern Bog	SWT3-1 Alder Organic Thicket Swamp
		Source:	Oldham et al	Oldham et al	Oldham et al	Newmaster			Newmaster	Crins, 1997												

FLORISTIC SUMMARY & ASSESSMENT

Species Diversity			
Total Species:		**104**	
Native Species:		**103**	99.04%
Exotic Species		**1**	0.96%
Total Taxa in Region (List Region, Source)		10000	
% Regional Taxa Recorded		1.04%	
Regionally Significant Species		1	
S1-S3 Species		0	
S4 Species		5	
S5 Species		88	

Co-efficient of Conservatism and Floral Quality Index			
Co-efficient of Conservatism (CC) (average)		**6.08**	
CC 0 to 3	*lowest sensitivity*	16	15.53%
CC 4 to 6	*moderate sensitivity*	39	37.86%
CC 7 to 8	*high sensitivity*	29	28.16%
CC 9 to 10	*highest sensitivity*	15	14.56%
Floral Quality Index (FQI)		**61.71**	

Presence of Weedy & Invasive Species			
mean weediness		**0.00**	
weediness = -1	*low potential invasiveness*	0	0.00%
weediness = -2	*moderate potential invasiveness*	0	0.00%
weediness = -3	*high potential invasiveness*	0	0.00%

Presence of Wetland Species			
average wetness value		**-0.85**	
upland		14	13.46%
facultative upland		22	21.15%
facultative		11	10.58%
facultative wetland		24	23.08%
obligate wetland		29	27.88%

EXPLANATION OF TERMINOLOGY *(See the following pages for addition detailed information on terms.)*

Botanical and Common Name: From Newmaster et. al, 1998. Species requiring confirmation noted (cf).

Co-efficient of Conservatism: This value, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to a specific habitat integrity.

Wetness Index: This value, ranging from -5 (obligate wetland) to 5 (upland) provides the probability of a species occurring in wetland or upland habitats.

Weediness Index: This value, ranging from -1 (low) to -3 (high) quantifies the potential invasiveness of non-native plants. In combination with the percentage of non-native plants, it can be used as an indicator of disturbance.

Provincial Status: Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These ranks are not legal designations. S4 and S5 species are generally uncommon to common in the province. Species ranked S1-S3 are considered to be rare in Ontario.

Local Status:

X: native species present (collection-based) and all exotic species

R: native species locally rare (number of stations): Durham (<10 stations), GTA (<40 stations), Site District 6E7 (<20 stations)

U: native species locally uncommon Durham (11-20 stations), GTA (41-80 stations), Site District 6E7 (21-40 stations)

Note: study area in Site District 6E13

Record Type

SR - sight record

SRP - sight record with photograph

KRAUS-00-001 - collection by D.T. Kraus for deposition into OAC (University of Guelph) herbarium

Annotations: Provides comments on general distribution and abundance on the subject lands. Definitions of terminology and abbreviations used as follows.

Abundance

Dominant: A plant with the greatest cover and/or biomass within a plant community and represented throughout the community by large numbers of individuals. Visually more abundant than other species in the same stratum and forming >10% ground cover, and >35% of the vegetation cover in any one stratum.

Abundant: Referring to a plant which is represented throughout the polygon or community by large numbers of individuals or clumps. Likely to be encountered anywhere in the polygon. Usually forming >10% ground cover.

Occasional: Referring to plants which are present as scattered individuals throughout a community, or represented by one or more large clumps of many individuals. Most species will fall into this category.

Rare: C over or abundance of a plant species that is represented in the area of interest by only one to a few individuals.

DETAILED EXPLANATION OF TERMS

Floral Quality Index and Coefficient of Conservatism Values

Vegetation species and community sensitivity was assessed through the application of coefficient of conservatism values (CC), assigned to each native species in southern Ontario (Oldham, et. al, 1995). The value of CC, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to specific habitat integrity. The occurrence of species with a CC of 9 or 10 can be good indicators of undisturbed conditions such as mature forests, fens or bogs.

General habitat values associated with the CC values are:

0-3: species found in a wide variety of communities, including disturbed sites

4-6: species associated with a specific community, but tolerate moderate disturbance

7-8: species associated with a community in an advanced successional stage, tolerant of minor disturbances

9-10: species with a high degree of fidelity to a narrow range of synecological parameters

The floristic quality of an area is reflected in the mean value of CC. For example, an old field or grazed woodlot would tend have a low mean CC; these habitats are dominated by opportunistic species that occur in a wide range of site conditions and are tolerant of disturbance. A bog, prairie or intact forest would have a higher value, reflecting the specific habitat requirements of many of the species and a generally undisturbed condition. The following provides an example of interpretation of CC values:

mean CC value / % spp CC >8 / Condition of the Landscape

5 / 27 / intact

3.5 / 19 / slightly degraded

1.3 / 2 / severely degraded

The FQI accounts for the species diversity of the area by equating the number of native species with the mean CC value. The FQI is generally used for comparing natural areas. The CC value and FQI of the study area were calculated for the entire study area.

Weediness Index

The sensitivity of natural areas can be assessed through application of the Weediness Index. The Weediness Index quantifies the potential invasiveness of non-native plants, and, in combination with the percentage of non-native plants can be used as an indicator of disturbance. Values (ranging from 1- to -3) have been assigned to most non-native species based on the potential impact each species can have in natural areas:

-1: little or no impact on natural areas (most non-native plants are in this category)

-2: occasional impacts on natural areas, generally infrequent or localized

-3: major potential impacts on natural areas

Wetness Index

All plants in southern Ontario have been assigned a wetland category, based on the designations developed for use by the United States Fish & Wildlife Service. Plants are designated into the following categories:

OBL (Obligate Wetland): occurs almost always in wetlands under natural conditions (estimated >99% probability)

FACW (Facultative Wetland): usually occurs in wetlands, but occasionally found in non-wetlands (estimated 67-99% probability)

FAC (Facultative): equally likely to occur in wetlands or non-wetlands (estimated 34-66% probability)

FACU (Facultative Upland): occasionally occurs in wetlands, but usually occurs in non-wetlands (estimated 1-33% probability)

UPL (Upland): occurs almost never in wetlands under natural conditions (estimated <1% probability)

Further refinement of the Facultative categories are denoted by a "+" or "-" to express exaggerated tendencies for those species. The "+" denotes a greater estimated probability occurring in wetlands than species in the general indicator category, but a lesser probability than species occurring in the next higher category. The "-" denotes a lesser estimated probability of occurring in wetlands than species in the general indicator category, but a greater probability than species occurring in the next lower general category.

Each wetland category has been assigned a numerical value to facilitate the quantification of the wetness index. The wetland categories and their corresponding values are as follows:

OBL : -5
FACW+: -4
FACW: -3
FACW-: -2
FAC+: -1
FAC: 0
FAC-: 1
FACU+: 2
FACU: 3
FACU-: 4
UPL: 5

Provincial Status

Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These rankings are based on the total number of extant Ontario populations and the degree to which they are potentially or actively threatened with destruction. The ranks are:

S1: Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province

S2: Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province

S3: Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation

S4: Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5:Secure—Common, widespread, and abundant in the nation or state/province

SH: Possibly Extirpated (Historical)—Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become NH or SH without such a 20-40 year delay if the only known occurrences in a nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The NH or SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences

SNR Unranked—Nation or state/province conservation status not yet assessed

SX: Presumed Extirpated—Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered

SNA Not Applicable —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

SU: Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends

Rank ranges, e.g. S2S3, indicate that the rank is either S2 or S3, but that current information is insufficient to differentiate.

S#S# Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

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Appendix C2

2015 Vascular Plant Species List

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
PTERIDOPHYTES	**FERNS & ALLIES**								
Blechnaceae	**Deer-fern Family**								
Woodwardia virginica	Virginia Chain Fern	10	-5		S4	G5			X
Dennstaedtiaceae	**Bracken Fern Family**								
Pteridium aquilinum var. latiusculum	Eastern Bracken-fern	2	3		S5	G5T			X
Dryopteridaceae	**Wood Fern Family**								
Athyrium filix-femina	Lady Fern								X
Athyrium filix-femina var. angustum	Northern Lady Fern	4	0		S5	G5T5			X
Dryopteris austriaca									X
Dryopteris carthusiana	Spinulose Wood Fern	5	-2		S5	G5			X
Dryopteris cristata	Crested Wood Fern	7	-5		S5	G5			X
Dryopteris marginalis	Marginal Wood Fern	5	3		S5	G5			X
Dryopteris sp.	Wood Fern								X
Gymnocarpium dryopteris	Oak Fern	7	0		S5	G5			X
Matteuccia struthiopteris	Ostrich Fern	5	-3		S5	G5			X
Onoclea sensibilis	Sensitive Fern	4	-3		S5	G5			X
Equisetaceae	**Horsetail Family**								
Equisetum arvense	Field Horsetail	0	0		S5	G5			X
Equisetum fluviatile	Water Horsetail	7	-5		S5	G5			X
Equisetum hyemale var. affine	Scouring-rush	2	-2		S5	G5T5			X
Equisetum sp.	Horsetail								X
Equisetum sylvaticum	Wood Horsetail	7	-3		S5	G5			X
Lycopodiaceae	**Clubmoss Family**								
Diphasiastrum complanatum	Northern Running-pine	8	2		S5	G5			X
Diphasiastrum digitatum	Southern Running-pine	5	5		S5	G5			X
Huperzia lucidula	Shining Fir-moss	7	-1		S5	G5			X
Lycopodiella inundata	Nothern Bog Club-moss	9	-5		S5	G5			X
Lycopodiella sp.	Club-moss								X
Lycopodium annotinum	Bristly Club-moss	7	0		S5	G5			X
Lycopodium clavatum	Running Club-moss	6	0		S5	G5			X
Lycopodium dendroideum	Prickly Tree Club-moss	7	0		S5	G5			X
Lycopodium sp.	Club-moss								X
Osmundaceae	**Royal Fern Family**								
Osmunda cinnamomea	Cinnamon Fern	7	-3		S5	G5			X
Osmunda claytoniana	Interrupted Fern	7	-1		S5	G5			X
Osmunda regalis var. spectabilis	Royal Fern	7	-5		S5	G5T			X
Pteridaceae	**Maidenhair Fern Family**								
Adiantum pedatum	Northern Maidenhair Fern	7	1		S5	G5			X
Polypodiaceae	**Polypody Family**								
Polypodium virginianum	Rock Polypody Fern	6	5		S5	G5			X
Polypodium vulgare	Common Polypody								X
Thelypteridaceae	**Marsh Fern Family**								
Phegopteris connectilis	Northern Beech Fern	8	5		S5	G5			X
Thelypteris noveboracensis	New York Fern	7	-1		S4S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Thelypteris palustris var. pubescens	Marsh Fern	5	-4		S5	G5T?			X
GYMNOSPERMS	**CONIFERS**								
Cupressaceae	**Cedar Family**								
Juniperus communis	Common Juniper	4	3		S5	G5			X
Thuja occidentalis	Eastern White Cedar	4	-3		S5	G5			X
Pinaceae	**Pine Family**								
Abies balsamea	Balsam Fir	5	-3		S5	G5			X
Larix laricina	Tamarack	7	-3		S5	G5			X
Picea glauca	White Spruce	6	3		S5	G5			X
Picea mariana	Black Spruce	8	-3		S5	G5			X
Pinus banksiana	Jack Pine	9	3		S5	G5			X
Pinus resinosa	Red Pine	8	3		S5	G5			X
Pinus sp.	Pine								X
Pinus strobus	Eastern White Pine	4	3		S5	G5			X
Tsuga canadensis	Eastern Hemlock	7	3		S5	G5			X
Taxaceae	**Yew Family**								
Taxus canadensis	American Yew	7	3		S4	G5			X
DICOTYLEDONS	**DICOTS**								
Aceraceae	**Maple Family**								
Acer pensylvanicum	Striped Maple	7	2		S5	G5			X
Acer rubrum	Red Maple	4	0		S5	G5			X
Acer saccharinum	Silver Maple	5	-3		S5	G5			X
Acer saccharum	Sugar Maple	4	3		S5	G5			X
Acer spicatum	Mountain Maple	6	3		S5	G5			X
Anacardiaceae	**Sumac or Cashew Family**								
Rhus hirta	Staghorn Sumac	1	5		S5	G5			X
Rhus typhina	Staghorn Sumac				S5	G5			X
Toxicodendron radicans ssp. negundo	Poison-ivy	5	-1		S5	G5T			X
Toxicodendron rydbergii	Western Poison-ivy	0	0		S5	G5			X
Apiaceae	**Carrot or Parsley Family**								
Cicuta bulbifera	Bulb-bearing Water-hemlock	5	-5		S5	G5			X
Heracleum lanatum	Common Cowparsnip								X
Heracleum mantegazzianum	Giant Hogweed	0	0		SNA	GNR			X
Sanicula marilandica	Black Snakeroot	5	3		S5	G5			X
Apocynaceae	**Dogbane Family**								
Apocynum androsaemifolium ssp. androsaemifolium	Spreading Dogbane	3	5		S5	G5T?			X
Apocynum cannabinum	Indian Hemp	0	1		S5	G5			X
Aquifoliaceae	**Holly Family**								
Ilex mucronata	Catberry				S5	G5			X
Ilex sp.									X
Ilex verticillata	Winterberry	5	-4		S5	G5			X
Nemopanthus mucronatus	Mountain-holly	8	-5		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Araliaceae	**Ginseng Family**								
Aralia hispida	Bristly Sarsaparilla	8	5		S5	G5			X
Aralia nudicaulis	Wild Sarsaparilla	4	3		S5	G5			X
Aralia racemosa ssp. racemosa	Spikenard	7	5		S5	G5T?			X
Asteraceae	**Composite or Aster Family**								
Achillea millefolium var. millefolium	Common Yarrow	0	3	-1	SE?	G5T?			X
Anaphalis margaritacea	Pearly Everlasting	3	5		S5	G5			X
Antennaria dioica	Stoloniferous Pussytoes								X
Antennaria sp.	Pussytoes								X
Arctium minus	Common Burdock				SNA	GNR			X
Aster sp.	Aster								X
Bidens cernua	Stick-tight	2	-5		S5	G5			X
Cirsium arvense	Canada Thistle	0	3	-1	SNA	GNR			X
Doellingeria umbellata var. pubens	Hairy Flat-top White Aster				S5	G5T5			X
Eupatorium maculatum	Spotted Joe-pye-weed	3	-5		S5	G5T5			X
Eupatorium perfoliatum	Perfoliate Thoroughwort/Boneset	2	-4		S5	G5			X
Eurybia macrophylla	Large-leaved Aster	5	5		S5	G5			X
Euthamia graminifolia	Flat-topped Bushy Goldenrod	2	-2		S5	G5			X
Eutrochium maculatum	Spotted Joe Pye Weed								X
Hieracium aurantiacum	Devil's Paintbrush	0	5	-2	SE5	G?			X
Hieracium caespitosum	Field Hawkweed								X
Lactuca biennis	Biennial Lettuce	6	0		S5	G5			X
Leucanthemum vulgare	Ox-eye Daisy	0	5	-1	SNA	GNR			X
Solidago caesia	Blue-stem Goldenrod	5	3		S5	G5			X
Solidago canadensis	Canada Goldenrod	1	3		S5	G5			X
Solidago hispida	Hairy Goldenrod				S5	G5			X
Solidago juncea	Early Goldenrod	3	5		S5	G5			X
Solidago rugosa ssp. rugosa	Rough Goldenrod	4	-1		S5	G5T?			X
Solidago sp.	Goldenrod								X
Symphyotrichum borealis	Rush Aster	10	-5		S5	G5			X
Symphyotrichum ciliolatum	Ciliolate Aster				S5	G5			X
Symphyotrichum puniceum var. puniceum	Purple-stemmed Aster	0	0		S5	G5T?			X
Symphyotrichum sp.									X
Taraxacum officinale	Common Dandelion	0	3	-2	SNA	G5			X
Balsaminaceae	**Touch-me-not Family**								
Impatiens capensis	Spotted Touch-me-not	4	-3		S5	G5			X
Berberidaceae	**Barberry Family**								
Caulophyllum sp.	Cohosh								X
Caulophyllum thalictroides	Blue Cohosh	6	5		S5	G4G5			X
Podophyllum peltatum	May-apple	5	3		S5	G5			X
Betulaceae	**Birch Family**								
Alnus incana spp. rugosa	Speckled Alder	6	-5		S5	G5T5			X
Alnus viridis	Green Alder				S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Alnus viridis spp. crispa	Green Alder	0	0		S5	G5T5			X
Betula alleghaniensis	Yellow Birch	6	0		S5	G5			X
Betula papyrifera	White Birch	0	2		S5	G5			X
Betula sp.	Birch								X
Corylus cornuta	Beaked Hazel	5	5		S5	G5			X
Ostrya virginiana	Hop Hornbeam - Ironwood	4	4		S5	G5			X
Brassicaceae	**Mustard Family**								
Armoracia lacustris	Lake-cress								X
Boechera stricta	Drummond's Rockcress				S5	G5			X
Cardamine diphylla	Two-leaved Toothwort	7	5		S5	G5			X
Cabombaceae	**Water-shield Family**								
Brasenia schreberi	Water-shield	7	-5		S5	G5			X
Callitrichaceae	**Water-starwort Family**								
Callitriche hermaphroditica	Hermaphrodite Water-starwort	10	-5		S5	G5			X
Callitriche sp.	Starwort								X
Cannabaceae	**Hemp Family**								
Humulus lupulus	Common Hop				S4	G5			X
Caprifoliaceae	**Honeysuckle Family**								
Diervilla lonicera	Bush Honeysuckle	5	5		S5	G5			X
Linnaea borealis	Twinflower				S5	G5			X
Linnaea borealis ssp. longiflora	Twinflower	7	0		S5	G5T?			X
Lonicera Canadensis	American Fly Honeysuckle	6	3		S5	G5			X
Lonicera hirsuta	Hairy Honeysuckle	7	0		S5	G4G5			X
Lonicera involucrata	Involucred Fly Honeysuckle	0	0		S5	G5			X
Lonicera sp.	Honeysuckle								X
Sambucus canadensis	American Elderberry				S5	G5T5			X
Sambucus nigra ssp. canadensis	Common Elderberry								X
Sambucus racemosa var. racemosa	Red-berried Elderberry								X
Sambucus sp.	Elderberry								X
Symphoricarpos albus	Snowberry	7	4		S5	G5			X
Viburnum acerifolium	Maple-leaved Viburnum	6	5		S5	G5			X
Viburnum alnifolium	Hobblebush								X
Viburnum edule	Squashberry	0	0		S5	G5			X
Viburnum lentago	Nannyberry	4	-1		S5	G5			X
Viburnum nudum var. cassinoides	Northern Wild Raisin	7	-3		S5	G5			X
Viburnum sp.									X
Viburnum trilobum	American Cranberrybush								X
Caryophyllaceae	**Pink Family**								
Stellaria longifolia	Long-leaved Chickweed	2	-4		S5	G5			X
Convolvulaceae	**Morning-glory Family**								
Calystegia sp.	Bindweed								X
Cornaceae	**Dogwood Family**								
Cornus alternifolia	Alternate-leaved Dogwood	6	5		S5	G5			X
Cornus canadensis	Bunchberry	7	0		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Cornus racemosa	Red Panicled Dogwood/Gray dogwood	2	-2		S5	G5?			X
Cornus rugosa	Round-leaved Dogwood	6	5		S5	G5			X
Cornus sericea	Red-osier Dogwood	2	-3		S5	G5			X
Cornus stolonifera	Red-osier Dogwood				S5	G5			X
Droseraceae	**Sundew Family**								
Drosera rotundifolia	Round-leaved Sundew	7	-5		S5	G5			X
Ericaceae	**Heath Family**								
Andromeda polifolia ssp. glaucophylla	Bog Rosemary	10	-5		S5	G5T5			X
Andromeda polifolia ssp. polifolia	Wild Rosemary	0	0		S4	G5T5			X
Arctostaphylos uva-ursi	Common Bearberry	8	5		S5	G5			X
Chamaedaphne calyculata	Leatherleaf	9	-5		S5	G5			X
Epigaea repens	Trailing Arbutus	9	5		S5	G5			X
Gaultheria hispidula	Creeping Snowberry	8	-3		S5	G5			X
Gaultheria procumbens	Wintergreen	6	3		S5	G5			X
Gaylussacia baccata	Black Huckleberry	8	3		S4	G5			X
Kalmia angustifolia	Sheep Laurel	9	0		S5	G5			X
Kalmia polifolia	Bog Laurel	10	-5		S5	G5			X
Ledum groenlandicum	Labrador-tea	9	-5		S5	G5			X
Vaccinium angustifolium	Low Sweet Blueberry	6	3		S5	G5			X
Vaccinium macrocarpon	Large Cranberry	10	-5		S4S5	G4			X
Vaccinium myrtilloides	Velvet-leaf Blueberry	7	-2		S5	G5			X
Vaccinium oxycoccos	Small Cranberry	10	-5		S5	G5			X
Vaccinium sp.									X
Fabaceae	**Pea Family**								
Trifolium hybridum ssp. elegans	Alsike Clover	0	1	-1	SE5				X
Trifolium repens	White Clover	0	2	-1	SNA	GNR			X
Trifolium sp.	Clover								X
Vicia cracca	Tufted Vetch	0	5	-1	SNA	GNR			X
Vicia sp.	Vetch								X
Fagaceae	**Beech Family**								
Fagus grandifolia	American Beech	6	3		S4	G5			X
Quercus macrocarpa	Bur Oak	5	1		S5	G5			X
Quercus rubra	Red Oak	6	3		S5	G5			X
Fumariaceae	**Fumitory Family**								
Corydalis aurea ssp. Aurea	Golden Corydalis	8	5		S5	G5			X
Corydalis sempervirens	Pale Corydalis	7	5		S5	G5			X
Corydalis sp.	Corydalis								X
Geraniaceae	**Geranium Family**								
Geranium bicknellii	Bicknell's Crane's-bill	5	5		S4	G5			X
Geranium maculatum	Spotted Crane's-bill	6	3		S5	G5			X
Geranium robertianum	Herb-robert	0	5	-2	S5	G5			X
Grossulariaceae	**Currant Family**								
Ribes americanum	Wild Black Currant	4	-3		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Ribes cynosbati	Prickly Gooseberry	4	5		S5	G5			X
Ribes glandulosum	Skunk Currant	6	-3		S5	G5			X
Ribes hirtellum	Smooth Gooseberry	6	-3		S5	G5			X
Ribes hudsonianum	Hudson Bay Currant	8	-5		S5	G5			X
Ribes lacustre	Swamp Black Currant	7	-3		S5	G5			X
Ribes sp.									X
Ribes triste	Wild Red Currant	6	-5		S5	G5			X
Guttiferae	**St. John's-wort Family**								
Hypericum perforatum	Common St. John's-wort	0	5	-3	SNA	GNR			X
Triadenum fraseri	Fraser's St. John's-wort	7	-5		S5	G5			X
Haloragaceae	**Water-milfoil Family**								
Myriophyllum sibiricum	Pale Water-milfoil	0	-5		S5	G5			X
Myriophyllum sp.									X
Myriophyllum verticillatum	Whorled Water-milfoil	7	-5		S5	G5			X
Proserpinaca palustris	Field Mermaid-weed	7	-5		S4	G5			X
Lamiaceae	**Mint Family**								
Clinopodium vulgare	Wild Basil	4	5		S5	G5			X
Lycopus uniflorus	Northern Water-horehound	5	-5		S5	G5			X
Mentha arvensis	American Wild Mint	3	-3		S5				X
Mentha arvensis ssp. borealis	Field Mint								X
Lentibulariaceae	**Bladderwort Family**								
Utricularia intermedia	Flat-leaved Bladderwort	8	-5		S5	G5			X
Utricularia sp.	Bladderwort								X
Utricularia vulgaris	Greater Bladderwort	4	-5		S5	G5			X
Lobelia	**Bellflower Family**								
Campanula rotundifolia	Blue Bells of Scotland	7	1		S5	G5			X
Lobelia sp.									X
Menyanthaceae	**Buckbean Family**								
Menyanthes trifoliata	Three-leaved Buckbean	9	-5		S5	G5			X
Monotropaceae	**Indian Pipe Family**								
Monotropa hypopithys	Pinesap	6	5		S4	G5			X
Monotropa uniflora	Indian-pipe	6	3		S5	G5			X
Myricaceae	**Wax-myrtle Family**								
Comptonia peregrina	Sweetfern	7	5		S5	G5			X
Myrica gale	Sweet Gale	6	-5		S5	G5			X
Nymphaeaceae	**Water-lily Family**								
Nuphar lutea	Yellow Pond-lily								X
Nuphar lutea ssp. pumila	Yellow Pond-lily								X
Nuphar sp.	Pond-lily								X
Nuphar variegata	Bulhead Pond-lily	4	-5		S5	G5T5			X
Nymphaea odorata	Fragrant Water-lily	0	0		S5	G5			X
Nymphaea odorata ssp. odorata	Fragrant White Water-lily				S5?	G5T5			X
Nymphaea sp.	Water-lily								X
Oleaceae	**Olive Family**								

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Fraxinus nigra	Black Ash	7	-4		S4	G5			X
Fraxinus pennsylvanica	Red Ash	3	-3		S4	G5			X
Onagraceae	**Evening-primrose Family**								
Circaea canadensis	Broad-leaved Enchanter's Nightshade				S5	G5T5			X
Circaea lutetiana ssp. canadensis	Enchanter's Nightshade	3	3		S5	G5T5			X
Epilobium angustifolium	Fireweed								X
Epilobium ciliatum	Hairy Willow-herb				S5	G5			X
Polygalaceae	**Milkwort Family**								
Polygala paucifolia	Gay Wings	6	3		S5	G5			X
Polygala sp.	Milkwort								X
Polygonaceae	**Smartweed Family**								
Polygonum amphibium	Water Smartweed	5	-5		S5	G5			X
Polygonum cilinode	Fringed Black Bindweed	2	5		S5	G5			X
Polygonum ramosissimum	Bushy Knotweed	8	1		S4	G5			X
Polygonum sp.									X
Rumex acetosella ssp. acetosella	Sheep Sorrel	0	0	-2	SEU	G5T			X
Portulacaceae	**Purslane Family**								
Claytonia caroliniana	Carolina Spring Beauty	7	3		S5	G5			X
Oxalidaceae	**Wood Sorrel Family**								
Oxalis montana	Common Wood-sorrel				S5	G5			X
Primulaceae	**Primrose Family**								
Lysimachia ciliata	Fringed Loosestrife	4	-3		S5	G5			X
Lysimachia sp.	Loosestrife								X
Lysimachia terrestris	Swamp Loosestrife	6	-5		S5	G5			X
Lysimachia thyrsiflora	Tufted Loosestrife	7	-5		S5	G5			X
Trientalis borealis ssp. borealis	Star-flower	6	-1		S5	G5			X
Pyrolaceae	**Wintergreen Family**								
Chimaphila umbellata	Common Pipsissewa				S5	G5			X
Chimaphila umbellata ssp. cisatlantica	Common Pipsissewa	8	5		S5	G5T5			X
Moneses uniflora	One-flowered Wintergreen	10	0		S5	G5			X
Orthilia secunda	One-sided Shinleaf	5	-1		S5	G5			X
Pyrola asarifolia	Pink Pyrola	7	-3		S5	G5			X
Pyrola chlorantha	Green-flowered Pyrola	6	3		S4S5	G5			X
Pyrola elliptica	Shinleaf	5	5		S5	G5			X
Ranunculaceae	**Buttercup Family**								
Actaea pachypoda	White Baneberry	6	5		S5	G5			X
Actaea rubra	Red Baneberry	5	5		S5	G5			X
Anemone americana	Round-lobed Hepatica	6	5		S5	G5			X
Anemone canadensis	Canada Anemone	3	-3		S5	G5			X
Aquilegia canadensis	Wild Columbine	5	1		S5	G5			X
Caltha palustris	Marsh-marigold	5	-5		S5	G5			X
Clematis virginiana	Virgin's-bower	3	0		S5	G5			X
Coptis trifolia	Goldthread	7	-3		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Coptis trifolia ssp. groenlandica	Goldthread					G5			X
Ranunculus abortivus	Kidney-leaf Buttercup	2	-2		S5	G5			X
Ranunculus acris	Tall Buttercup	0	0	-2	SNA	G5			X
Ranunculus pensylvanicus	Bristly Buttercup	3	-5		S5	G5			X
Ranunculus recurvatus var. recurvatus	Hooked Buttercup	4	-3		S5	G5			X
Ranunculus sp.	Buttercup								X
Thalictrum dasycarpum	Purple Meadow-rue	8	-2		S4?	G5			X
Thalictrum pubescens	Tall Meadow-rue	5	-2		S5	G5			X
Rosaceae	**Rose Family**								
Agrimonia gryposepala	Tall Hairy Agrimony	2	2		S5	G5			X
Agrimonia sp.	Agrimony								X
Agrimonia striata	Grooved Agrimony	0	0		S4?	G5			X
Amelanchier alnifolia	Saskatoon Berry	8	2		S4?	G5			X
Amelanchier arborea	Downy Juneberry	0	3		S5	G5			X
Amelanchier bartramiana	Bartram's Juneberry	0	0		S5	G5			X
Amelanchier humilis	Running Serviceberry				S4S5	G5			X
Amelanchier laevis	Smooth Juneberry	5	5		S5	G4G5Q			X
Amelanchier sanguinea	Roundleaf Juneberry	7	5		S5?	G5			X
Amelanchier sp.	Serviceberry								X
Amelanchier spicata	Low Juneberry	7	3		S4?	G5			X
Amelanchier stolonifera	Running Juneberry	0	0		S4?	G5			X
Aronia melanocarpa	Black chokeberry	7	-3		S5	G5			X
Comarum palustre	Marsh Cinquefoil				S5	G5			X
Fragaria vesca ssp. americana	Woodland Strawberry	4	4		S5	G5T?			X
Fragaria virginiana	Virginia Strawberry				S5	G5			X
Geum aleppicum	Yellow Avens	2	-1		S5	G5			X
Geum canadense	White Avens	3	0		S5	G5			X
Geum sp.	Avens								X
Potentilla anserina ssp. Anserina	Silverweed	5	-4		S5	GNR			X
Potentilla argentea	Silvery Cinquefoil	0	3	-2	SNA	GNR			X
Potentilla arguta	Tall Cinquefoil	7	5		S4	G5			X
Potentilla norvegica	Norwegian cinquefoil				S5	G5			X
Potentilla recta	Rough-fruited Cinquefoil	0	5	-2	SNA	GNR			X
Prunus nigra	Canada Plum	4	4		S4	G4G5			X
Prunus pensylvanica	Pin Cherry	3	4		S5	G5			X
Prunus pumila	Sand Cherry								X
Prunus pumila var. susquehanae	Susquehanae Cherry				S4?	G5T4			X
Prunus serotina	Black Cherry	3	3		S5	G5			X
Prunus sp.									X
Prunus virginiana	Choke Cherry				S5	G5			X
Rosa acicularis ssp. sayi	Prickly Rose	7	3		S5	G5			X
Rosa palustris	Marsh Rose	7	-5		S5	G5			X
Rosa sp.	Rose								X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Rubus allegheniensis	Alleghany Blackberry	2	2		S5	G5			X
Rubus canadensis	Millspaugh's Blackberry	7	5		S4?	G5			X
Rubus flagellaris	Prickly Raspberry	4	4		S4	G5			X
Rubus hispidus	Trailing Blackberry	6	-3		S4S5	G5			X
Rubus idaeus	Red Raspberry	0	0		SNA	G5T5			X
Rubus idaeus ssp. melanolasius	Wild Red Raspberry	0	-2		S5	G5T			X
Rubus pubescens	Dwarf Raspberry	4	-4		S5	G5			X
Rubus sp.									X
Sorbus americana	American Mountain-ash	8	-1		S5	G5			X
Sorbus decora	Showy Mountain-ash	8	3		S5	G4G5			X
Sorbus sp.	Mountain-ash								X
Spiraea alba	Narrow-leaved Meadow-sweet	3	-4		S5	G5			X
Spiraea latifolia	Broad-leaved Meadow-sweet				S5	G5			X
Spiraea sp.	Meadow-sweet								X
Spiraea tomentosa	Tomentose Meadow-sweet	5	-3		S4S5	G5			X
Rubiaceae	**Madder Family**								
Galium aparine	Cleavers	4	3		S5	G5			X
Galium asprellum	Rough Bedstraw	6	-5		S5	G5			X
Galium palustre	Marsh Bedstraw	5	-5		S5	G5			X
Galium sp.	Bedstraw								X
Galium trifidum ssp. trifidum	Small Bedstraw	5	-4		S5	G5T?			X
Galium triflorum	Sweet-scented Bedstraw	4	2		S5	G5			X
Mitchella repens	Creeping Partridge-berry	6	2		S5	G5			X
Salicaceae	**Willow Family**								
Populus balsamifera ssp. balsamifera	Balsam Poplar	4	-3		S5	G5			X
Populus deltoides ssp. deltoides	Eastern Cottonwood	4	-1		S5	G5T5			X
Populus grandidentata	Large-tooth Aspen	5	3		S5	G5			X
Populus sp.	Poplar								X
Populus tremuloides	Trembling Aspen	2	0		S5	G5			X
Salix ballii	Ball's Willow	0	0		SH	G5?			X
Salix bebbiana	Long-beaked Willow	4	-4		S5	G5			X
Salix discolor	Pussy Willow	3	-3		S5	G5			X
Salix exigua	Sandbar Willow	3	-5		S5	G5			X
Salix humilis	Prairie Willow	7	3		S5	G5			X
Salix petiolaris	Slender Willow	3	-4		S5	G5			X
Salix pyrifolia	Balsam Willow	10	-4		S5	G5			X
Salix sp.	Willow								X
Santalaceae	**Sandalwood Family**								
Comandra umbellata	Bastard Toad-flax	6	3		S5	G5			X
Sarraceniaceae	**Pitcher-plant Family**								
Sarracenia purpurea	Pitcher-plant	10	-5		S5	G5			X
Saxifragaceae	**Saxifrage Family**								
Mitella diphylla	Two-leaved Bishop's Cap	5	2		S5	G5			X
Mitella nuda	Naked Mitrewort	6	-3		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Saxifraga careyana	Golden Eye Saxifrage								X
Saxifraga virginiensis	Early Saxifrage	6	1		S5	G5			X
Tiarella cordifolia	False Mitrewort/foamflower	6	1		S5	G5			X
Scrophulariaceae	**Figwort Family**								
Collinsia parviflora	Small-flowered Collinsia	10	4		S5	G5			X
Melampyrum lineare	Cow-wheat	6	1		S4S5	G5			X
Mimulus ringens	Square-stemmed Monkey-flower	6	-5		S5	G5			X
Verbascum thapsus	Common Mullein	0	5	-2	SNA	GNR			X
Tiliaceae	**Linden Family**								
Tilia americana	American Basswood	4	3		S5	G5			X
Ulmaceae	**Elm Family**								
Ulmus americana	White Elm	3	-2		S5	G5?			X
Urticaceae	**Nettle Family**								
Laportea canadensis	Wood Nettle	6	-3		S5	G5			X
Urtica dioica ssp. dioica	European Stinging Nettle	0	-1	-1	SNA	G5T5?			X
Violaceae	**Violet Family**								
Viola adunca	Hooked-spur Violet	8	1		S4S5	G5			X
Viola blanda	Sweet White Violet	6	-2		S5	G4G5			X
Viola canadensis	Canada Violet	6	5		S5	G5			X
Viola cucullata	Marsh Blue Violet	5	-5		S5	G4G5			X
Viola macloskeyi ssp. pallens	Macloskey's Violet	6	-5		S5	G5T5			X
Viola palustris	Marsh Violet	0	0		SU	G5			X
Viola sororia	Woolly Blue Violet	4	1		S5	G5			X
Viola sp.	Violet								X
MONOCOTYLEDONS	**MONOCOTS**								
Araceae	**Arum Family**								
Arisaema triphyllum	Small Jack-in-the-pulpit	5	-2		S5	G5			X
Calla palustris	Wild Calla	8	-5		S5	G5			X
Cyperaceae	**Sedge Family**								
Carex aquatilis	Aquatic Sedge	7	-5		S5	G5			X
Carex arctata	Drooping Wood Sedge	5	5		S5	G5			X
Carex blanda	Woodland Sedge	3	0		S5	G5?			X
Carex brunnescens ssp. brunnescens	Brownish Sedge	7	-3		S5	G5T?			X
Carex canescens ssp. canescens	Silvery Sedge	7	-5		S5	G5T?			X
Carex communis	Fibrous Rooted Sedge	6	5		S5	G5			X
Carex crinita	Fringed Sedge	6	-4		S5	G5			X
Carex cumulata	Accumulating Sedge	8	4		S4	G4?			X
Carex deweyana	Dewey's Sedge	6	4		S5	G5			X
Carex disperma	Soft-leaved Sedge	8	-5		S5	G5			X
Carex eburnea	Bristle-leaved Sedge	6	4		S5	G5			X
Carex echinata ssp. echinata	Prickly Sedge	7	-5		S5	G5T5			X
Carex gracillima	Graceful Sedge	4	3		S5	G5			X
Carex interior	Inland Sedge	6	-5		S5	G5			X
Carex intumescens	Bladder Sedge	6	-4		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

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Carex lacustris	Lake-bank Sedge	5	-5		S5	G5			X
Carex lasiocarpa	Slender Sedge	8	-5		S5	G5			X
Carex limosa	Mud Sedge	10	-5		S5	G5			X
Carex lucorum	Forest Sedge				S4	G4			X
Carex lupulina	Hop Sedge	6	-5		S5	G5			X
Carex magellanica ssp. irrigua	Stunted Sedge	10	-5		S5	G5T?			X
Carex oligosperma	Few-seeded Sedge	10	-5		S4	G5			X
Carex pedunculata	Long-stalked Sedge	5	5		S5	G5			X
Carex pellita	Woolly Sedge	4	-5		S5	G5			X
Carex pensylvanica	Pennsylvania Sedge	5	5		S5	G5			X
Carex platyphylla	Broad-leaved Sedge	7	5		S5	G5			X
Carex scoparia	Pointed Broom Sedge	5	-3		S5	G5			X
Carex siccata	Silvery-flowered Hay Sedge	0	0		S5	GNR			X
Carex sp.									X
Carex stipata	Awl-fruited Sedge	3	-5		S5	G5			X
Carex stricta	Tussock Sedge	4	-5		S5	G5			X
Carex tenuiflora	Sparse-flowered Sedge	10	-5		S5	G5			X
Carex trisperma	Three-seeded Sedge				S5	G5			X
Carex utriculata	Beaked Sedge	7	-5		S5	G5			X
Carex vaginata	Sheathed Sedge	10	-5		S5	G5			X
Dulichium arundinaceum	Reed-like Three-way Sedge	7	-5		S5	G5			X
Eriophorum sp.	Cotton-grass								X
Eriophorum vaginatum ssp. spissum	Sheathed Cotton-grass	10	-5		S5	G5T5			X
Eriophorum virginicum	Virginia Cotton-grass	10	-5		S5	G5			X
Eriophorum viridi-carinatum	Thin-leaved Cotton-grass	9	-5		S5	G4			X
Rhynchospora sp.	Beaked-rush								X
Schoenoplectus acutus var. acutus	Hard-stemmed Bulrush								X
Schoenoplectus tabernaemontani	American Great Bulrush/softstem bulrush	5	-5		S5	G5			X
Scirpus atrovirens	Dark-green Bulrush	3	-5		S5	G5?			X
Scirpus cyperinus	Wool-grass	4	-5		S5	G5			X
Scirpus microcarpus	Small-fruited Bulrush	4	-5		S5	G5			X
Scirpus sp.	Bulrush								X
Iridaceae	**Iris Family**								
Iris sp.	Iris								X
Iris versicolor	Multi-coloured Blue-flag	5	-5		S5	G5			X
Sisyrinchium montanum	Montane Blue-eyed-grass	0	-1		S5	G5			X
Juncaceae	**Rush Family**								
Juncus bufonius	Toad Rush	1	-4		S5	G5			X
Juncus effusus	Common rush	0	0		S5	G5			X
Juncus sp.	Rush								X
Juncus validus	Roundhead Rush								X
Lemnaceae	**Duckweed Family**								
Lemna minor	Lesser Duckweed	2	-5		S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Liliaceae	**Lily Family**								
Allium tricoccum	Wild Leek	7	2		S5	G5			X
Clintonia borealis	Bluebead-lily	7	-1		S5	G5			X
Erythronium americanum ssp. americanum	Yellow Dog's-tooth Violet	5	5		S5	G5T5			X
Erythronium sp.	Dog's-tooth Violet								X
Maianthemum canadense	Wild Lily-of-the-valley	5	0		S5	G5			X
Maianthemum racemosum ssp. racemosum	False Solomon's Seal	4	3		S5	G5			X
Maianthemum sp.									X
Maianthemum trifolium	Three-leaved Solomon's Seal	10	-5		S5	G5			X
Medeola virginiana	Indian Cucumber-root	7	5		S5	G5			X
Polygonatum pubescens	Hairy Solomon's Seal	5	5		S5	G5			X
Polygonatum sp.									X
Streptopus amplexifolius	Clasping-leaved Twisted-stalk	10	-1		S4S5	G5			X
Streptopus lanceolatus var. roseus	Rose Twisted-stalk								X
Trillium erectum	Purple Trillium	6	1		S5	G5			X
Trillium grandiflorum	White Trillium	5	5		S5	G5			X
Trillium undulatum	Painted Trillium	8	4		S5	G5			X
Orchidaceae	**Orchid Family**								
Arethusa bulbosa	Dragon's Mouth	10	-5		S4	G4			X
Corallorhiza trifida	Early Coral-root	7	-2		S4	G5			X
Cypripedium acaule	Moccasin Flower	7	-3		S5	G5			X
Cypripedium calceolus									X
Cypripedium reginae	Showy Lady's Slipper	7	-4		S4	G4			X
Cypripedium sp.	Lady's Slipper								X
Poaceae	**Grass Family**								
Agrostis gigantea	Red-top	0	0	-2	SNA	G4G5			X
Agrostis scabra	Fly-away Grass	6	0		S5	G5			X
Agrostis stolonifera	Redtop	0	-3		SNA	G5			X
Brachyelytrum erectum	Bearded Short-husk	7	5		S4?	G5T4T5			X
Bromus inermis	Awnless Brome				SNA	G5TNR			X
Calamagrostis canadensis	Blue-joint Grass	4	-5		S5	G5			X
Cinna latifolia	Broad-leaved Reed Grass	7	-4		S5	G5			X
Danthonia compressa	Flattened Wild Oat Grass	8	5		S4	G5			X
Danthonia spicata	Poverty Oat Grass	5	5		S5	G5			X
Deschampsia cespitosa	Tufted Hairgrass				S4S5	G5			X
Deschampsia flexuosa	Common Hairgrass	8	5		S5	G5			X
Elymus trachycaulus ssp. trachycaulus	Slender Wheat Grass	7	0		S5	G5T5			X
Glyceria striata	Fowl Meadow Grass	3	-5		S5	G5			X
Milium effusum	Tall Millet				S4S5	G5			X
Oryzopsis asperifolia	White-grained Mountain-rice	6	5		S5	G5			X
Oryzopsis sp.	Mountain-rice								X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Phalaris arundinacea	Reed Canary Grass	0	-4		S5	G5			X
Phragmites australis	Common Reed	0	-4		S5	G5			X
Poa annua	Annual Blue Grass	0	1	-2	SNA	GNR			X
Poa palustris	Fowl Meadow Grass	5	-4		S5	G5			X
Poa saltuensis	Languid Spear Grass	7	5		S4	G5T5			X
Poa sp.									X
Pontederiaceae	**Pickerel-weed Family**								
Pontederia cordata	Heart-leaved Pickerel-weed	7	-5		S5	G5			X
Potamogetonaceae	**Pondweed Family**								
Potamogeton amplifolius	Large-leaved Pondweed	5	-5		S5	G5			X
Potamogeton sp.									X
Potamogeton zosteriformis	Flat-stemmed Pondweed	5	-5		S5	G5			X
Sparganiaceae	**Bur-reed Family**								
Sparganium angustifolium	Narrow-leaved Bur-reed	9	-5		S4?	G5			X
Sparganium emersum ssp. acaule	Stemless Bur-reed	0	0		SU				X
Sparganium eurycarpum	Broad-fruited Bur-reed	3	-5		S5	G5			X
Sparganium fluctuans	Floating Bur-reed	9	-5		S4?	G5			X
Typhaceae	**Cattail Family**								
Typha angustifolia	Narrow-leaved Cattail	3	-5		SNA	G5			X
Typha latifolia	Broad-leaved Cattail	3	-5		S5	G5			X
Typha sp.	Cattail								X
CHAROPHYTA	**ALGAE**								
Characeae									
Chara sp.									X
ASCOMYCETES	**LICHENS**								
Cladoniaceae	**Lichen Family**								
Cladonia asahinae									X
Cladonia chlorophaea	Cup Lichen				S5	GU			X
Cladonia coniocraea					S5	G5			X
Cladonia cristatella	British Soldier Lichen				S5	G5?			X
Cladonia multiformis	Cup Lichen				S5	G3G5			X
Cladonia rangiferina	Grey Reindeer Lichen				S5	G5			X
Cladonia sp.									X
Cladonia stellaris	Northern Reindeer Lichen				S5	GNR			X
Parmeliaceae									
Usnea sp.									X
Peltigeraceae	**Lichen Family**								
Peltigera canina	Dog Lichen				S5	G5			X
Stereocaulaceae	**Lichen Family**								
Stereocaulon sp.	Snow Lichen								X
Stereocaulon tomentosum	Snow Lichen				S4S5	G5			X
Umbilicariaceae									
Umbilicaria mammulata	Smooth Rock Tripe				S4S5	G4G5			X
MARCHANTIOPSIDA	**LIVERWORTS**								

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence
Marchantiaceae	**Mosses, Liverworts, and Hornworts**								
Marchantia polymorpha	Common Liverwort				S5	G5			X
BRYOPSIDA	**MOSSES**								
Aulacomniaceae	**Bog Moss Family**								
Aulacomnium palustre	Glow Moss				S5	G5			X
Brachytheciaceae	**Ragged Moss Family**								
Pleurozium schreberi	Schreber's Moss				S5	G5			X
Tomenthypnum nitens									X
Campylium	**Campylium Moss Family**								
Campylium stellatum	Star Campylium Moss								X
Climaciaceae	**Tree Moss Family**								
Climacium dendroides	Tree-Moss				S5	G5			X
Dicranaceae	**Dicranum Family**								
Dicranum fuscescens	Broom Moss				S5	G5			X
Dicranum montanum	Montane Dicranum Moss				S5	G5			X
Dicranum ontariense	Ontario Dicranum Moss				S5	G4G5			X
Dicranum polysetum	Wavy Moss				S5	G5			X
Dicranum scoparium					S5	G5			X
Ditrichaceae									
Ceratodon purpureus	Fire Moss								X
Hypnaceae									
Ptilium crista-castrensis	Knight's Plume Moss				S5	G5			X
Leucobryaceae									
Leucobryum glaucum	White Pincushion Moss				S5	G5			X
Polytrichaceae	**Haircap Mosses Family**								
Polytrichum commune	Common Haircap Moss				S5	G5			X
Polytrichum juniperinum	Juniper Haircap Moss				S5	G5			X
Polytrichum sp.	Haircap Moss								X
Polytrichum strictum	Bog Haircap Moss				S5	G4			X
SPHAGNOPSIDA	**MOSSES**								
Sphagnaceae	**Peat Moss Family**								
Sphagnum angustifolium	Cuspidate Peat Moss				S5	G5			X
Sphagnum capillifolium	Northern Peat Moss				S5	G5			X
Sphagnum centrale	Central Peat Moss				S4	G5			X
Sphagnum fuscum	Common Brown Sphagnum				S5	G5			X
Sphagnum girgensohnii	Common Green Peat Moss				S5	G5			X
Sphagnum magellanicum	Midway Peat Moss				S5	G5			X
Sphagnum papillosum	Papillose Peat Moss				S4	G5			X
Sphagnum sp.	Peat Moss								X
Sphagnum squarrosum	Squarrose Peat Moss				S5	G5			X
Sphagnum wulfianum	Wulf's Peat Moss				S5	G5			X

Appendix C2: 2015 Plant Inventory for the HIWEC Study Area.

Species	Common Name	Coefficient of Conservatism	Wetness Index	Weediness Index	Provincial Status	Global Status	OMNR Status	SARA Status	Plant Presence

Floristic Summary and Assessment

Total Species Diversity	
Total Species:	*598*
Native Species:	*348*
Exotic Species:	*18*
S1-S3 Species:	*0*
S4 Species:	*25*
S5 Species:	*333*

Vascular Plant Species Diversity	
Total Species:	*459*
Native Species:	*346*
Exotic Species:	*18*
S1-S3 Species:	*0*
S4 Species:	*22*
S5 Species:	*304*

Co-efficient of Conservatism and Floral Quality Index			
Co-efficient of Conservatism (CC) (average)		*5.097701149*	
CC 0 to 3	*lowest sensitivity*	*88*	*25%*
CC 4 to 6	*moderate sensitivity*	*139*	*40%*
CC 7 to 8	*high sensitivity*	*90*	*26%*
CC 9 to 10	*highest sensitivity*	*31*	*9%*
Floral Quality Index (FQI)		*94.82272262*	

Presence of Weedy & Invasive Species		
mean weediness		*-1.666666667*
weediness = -1	*low potential invasiveness*	*7*
weediness = -2	*moderate potential invasiveness*	*10*
weediness = -3	*high potential invasiveness*	*1*

Presence of Wetland Species	
average wetness value	*-0.413793103*
upland	*59*
facultative upland	*66*
facultative	*70*
facultative wetland	*68*
obligate wetland	*85*

EXPLANATION OF TERMINOLOGY *(See the following pages for addition detailed information on terms.)*

Botanical and Common Name: From Newmaster et. al, 1998. Species requiring confirmation noted (cf).

Co-efficient of Conservatism: This value, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to a specific habitat integrity.

Wetness Index: This value, ranging from -5 (obligate wetland) to 5 (upland) provides the probability of a species occurring in wetland or upland habitats.

Weediness Index: This value, ranging from -1 (low) to -3 (high) quantifies the potential invasiveness of non-native plants. In combination with the percentage of non-native plants, it can be used as an indicator of disturbance.

Provincial Status: Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These ranks are not legal designations. S4 and S5 species are generally uncommon to common in the province. Species ranked S1-S3 are considered to be rare in Ontario.

Local Status:

X: native species present (collection-based) and all exotic species

R: native species locally rare (number of stations): Durham (<10 stations), GTA (<40 stations), Site District 6E7 (<20 stations)

U: native species locally uncommon Durham (11-20 stations), GTA (41-80 stations), Site District 6E7 (21-40 stations)

Note: study area in Site District 6E13

Record Type

SR - sight record

SRP - sight record with photograph

KRAUS-00-001 - collection by D.T. Kraus for deposition into OAC (University of Guelph) herbarium

Annotations: Provides comments on general distribution and abundance on the subject lands. Definitions of terminology and abbreviations used as follows.

Abundance

Dominant: A plant with the greatest cover and/or biomass within a plant community and represented throughout the community by large numbers of individuals. Visually more abundant than other species in the same stratum and forming >10% ground cover, and >35% of the vegetation cover in any one stratum.

Abundant: Referring to a plant which is represented throughout the polygon or community by large numbers of individuals or clumps. Likely to be encountered anywhere in the polygon. Usually forming >10% ground cover.

Occasional: Referring to plants which are present as scattered individuals throughout a community, or represented by one or more large clumps of many individuals. Most species will fall into this category.

Rare: C over or abundance of a plant species that is represented in the area of interest by only one to a few individuals.

DETAILED EXPLANATION OF TERMS

Floral Quality Index and Coefficient of Conservatism Values

Vegetation species and community sensitivity was assessed through the application of coefficient of conservatism values (CC), assigned to each native species in southern Ontario (Oldham, et. al, 1995). The value of CC, ranging from 0 (low) to 10 (high), is based on a species tolerance of disturbance and fidelity to specific habitat integrity. The occurrence of species with a CC of 9 or 10 can be good indicators of undisturbed conditions such as mature forests, fens or bogs.

General habitat values associated with the CC values are:
0-3: species found in a wide variety of communities, including disturbed sites
4-6: species associated with a specific community, but tolerate moderate disturbance
7-8: species associated with a community in an advanced successional stage, tolerant of minor disturbances
9-10: species with a high degree of fidelity to a narrow range of synecological parameters

The floristic quality of an area is reflected in the mean value of CC. For example, an old field or grazed woodlot would tend have a low mean CC; these habitats are dominated by opportunistic species that occur in a wide range of site conditions and are tolerant of disturbance. A bog, prairie or intact forest would have a higher value, reflecting the specific habitat requirements of many of the species and a generally undisturbed condition. The following provides an example of interpretation of CC values:
mean CC value / % spp CC >8 / Condition of the Landscape

5 / 27 / intact

3.5 / 19 / slightly degraded

1.3 / 2 / severely degraded

The FQI accounts for the species diversity of the area by equating the number of native species with the mean CC value. The FQI is generally used for comparing natural areas. The CC value and FQI of the study area were calculated for the entire study area.

Weediness Index

The sensitivity of natural areas can be assessed through application of the Weediness Index. The Weediness Index quantifies the potential invasiveness of non-native plants, and, in combination with the percentage of non-native plants can be used as an indicator of disturbance. Values (ranging from 1- to -3) have been assigned to most non-native species based on the potential impact each species can have in natural areas:
-1: little or no impact on natural areas (most non-native plants are in this category)

-2: occasional impacts on natural areas, generally infrequent or localized

-3: major potential impacts on natural areas

Wetness Index

All plants in southern Ontario have been assigned a wetland category, based on the designations developed for use by the United States Fish & Wildlife Service. Plants are designated into the following categories:
OBL (Obligate Wetland): occurs almost always in wetlands under natural conditions (estimated >99% probability)

FACW (Facultative Wetland): usually occurs in wetlands, but occasionally found in non-wetlands (estimated 67-99% probability)

FAC (Facultative): equally likely to occur in wetlands or non-wetlands (estimated 34-66% probability)

FACU (Facultative Upland): occasionally occurs in wetlands, but usually occurs in non-wetlands (estimated 1-33% probability)

UPL (Upland): occurs almost never in wetlands under natural conditions (estimated <1% probability)

Further refinement of the Facultative categories are denoted by a “+” or “-” to express exaggerated tendencies for those species. The “+” denotes a greater estimated probability occurring in wetlands than species in the general indicator category, but a lesser probability than species occurring in the next higher category. The "-" denotes a lesser estimated probability of occurring in wetlands than species in the general indicator category, but a greater probability than species occurring in the next lower general category.

Each wetland category has been assigned a numerical value to facilitate the quantification of the wetness index. The wetland categories and their corresponding values are as follows:

OBL : -5
FACW+: -4
FACW: -3
FACW-: -2
FAC+: -1
FAC: 0
FAC-: 1
FACU+: 2
FACU: 3
FACU-: 4
UPL: 5

Provincial Status

Provincial ranks are used by the NHIC to set protection priorities for rare species and natural communities. These rankings are based on the total number of extant Ontario populations and the degree to which they are potentially or actively threatened with destruction. The ranks are:

S1: Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province

S2: Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province

S3: Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation

S4: Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5:Secure—Common, widespread, and abundant in the nation or state/province

SH: Possibly Extirpated (Historical)—Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become NH or SH without such a 20-40 year delay if the only known occurrences in a nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The NH or SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences

SNR Unranked—Nation or state/province conservation status not yet assessed

SX: Presumed Extirpated—Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered

SNA Not Applicable —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

SU: Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends

Rank ranges, e.g. S2S3, indicate that the rank is either S2 or S3, but that current information is insufficient to differentiate.

S#S# Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

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Nomenclature based on:

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Natural Heritage Information Centre (NHIC). 2000. Provincial status of plants, wildlife and vegetation communities database. http://www.mnr.gov.on.ca/MNR/nhic/nhic.html. OMNR, Peterborough.

Appendix D

Incidental Wildlife Observation List

Appendix D: 2014 2015 Incidental Wildlife Observations for HIWEC Study Area

Avifauna

Common Name	Scientific Name	S-rank	G-rank	SARO	SARA
American Crow	*Corvus brachyrhynchos*	S5B	G5	-	-
American Three-toed Woodpecker	*Picoides dorsalis*	S4	G5	-	-
American Woodcock	*Scolopax minor*	S4B	G5	-	-
Bald Eagle	*Haliaeetus leucocephalus*	S2N, S4B	G5	SC	-
Barred Owl	*Strix varia*	S5	G5	-	-
Bay-breasted Warbler	*Setophaga castanea*	S5B	G5	-	-
Black-and-white Warbler	*Mniotilta varia*	S5B	G5	-	-
Black-backed Woodpecker	*Picoides arcticus*	S4	G5	-	-
Black-capped Chickadee	*Poecile atricapillus*	S5	G5	-	-
Black-throated Green Warbler	*Setophaga virens*	S5B	G5	-	-
Blue Jay	*Cyanocitta cristata*	S5	G5	-	-
Broad-winged Hawk	*Buteo platypterus*	S5B	G5	-	-
Bufflehead	*Bucephala albeola*	S4	G5	-	-
Canada Goose	*Branta canadensis*	S5	G5	-	-
Canada Warbler	*Cardellina pusilla*	S4B	G5	THR	THR Schedule 1
Chestnut-sided Warbler	*Setophaga pensylvanica*	S5B	G5	-	-
Common Loon	*Gavia immer*	S5B,S5N	G5	-	-
Common Nighthawk	*Chordeiles minor*	S4B	G4	SC	THR Schedule 1
Common Yellowthroat	*Geothlypis trichas*	S5B	G5	-	-
Dark-eyed Junco	*Junco hyemalis*	S5	G5	-	-
Downy Woodpecker	*Picoidese pubescens*	S5	G5	-	-
Eastern Pheobe	*Sayornis phoebe*	S5B	G5	-	-
Eastern Whip-poor-will	*Caprimulgus vociferus*	S4B	G5	THR	THR Schedule 1
Eastern Wood-Pewee	*Contopus virens*	S4B	G5	-	-
Golden-crowned Kinglet	*Regulus satrapa*	S5B	G5	-	-
Gray Jay	*Perisoreus canadensis*	S5	G5	-	-
Great blue Heron	*Ardea herodias*	S4	G5	-	-
Greater Yellowlegs	*Tringa melanoleuca*	S4B, S4N	G5	-	-
Hairy Woodpecker	*Picoides villosus*	S5	G5	-	-
Hawk Sp.	*unknown*	-	-	-	-
Hermit Thrush	*Catharus guttatus*	S5B	G5	-	-
Killdeer	*Charadrius vociferus*	S5B, S5N	G5	-	-
Kirtland's Warbler	*Setophaga kirtlandii*	S1B	G1	END	END Schedule 1
Mallard	*Anas platyrhynchos*	S5	G5	-	-
Nashville Warbler	*Oreothlypis ruficapilla*	S5B	G5	-	-
Northern Flicker	*Colaptes auratus*	S4B	G5	-	-
Northern Goshawk	*Accipiter gentilis*	S4	G5	-	-
Northern Waterthrush	*Parkesia noveboracensis*	S5B	G5	-	-
Olive-sided Flycatcher	*Contopus cooperi*	S4B	G4	SC	THR Schedule 1
Osprey	*Pandion haliaetus*	S5B	G5	-	-
Ovenbird	*Seiurus aurocapilla*	S4B	G5	-	-
Pileated Woodpecker	*Hylatomus pileatus*	S5	G5	-	-
Pine Grosbeak	*Pinicola enucleator*	S4B	G5	-	-
Common Raven	*Corvus corax*	S5	G5	-	-
Red-breasted Nuthatch	*Sitta canadensis*	S5	G5	-	-
Red-eyed Vireo	*Vireo olivaceus*	S5B	G5	-	-
Red-tailed Hawk	*Buteo jamaicensis*	S5	G5	-	-
Ring-neck Duck	*Aythya collaris*	S5	G5	-	-
Ruffed Grouse	*Bonasa umbellus*	S4	G5	-	-
Rusty Blackbird	*Euphagus carolinus*	S4B	G4	-	SC Schedule 1
Sandhill Crane	*Grus canadensis*	S5B	G5	-	-
Spruce Grouse	*Falcipennis canadensis*	S5	G5	-	-
Three-toded Woodpecker	*Picoides dorsalis*	S4	G5	-	-
Turkey Vulture	*Cathartes aura*	S5B	G5	-	-
White-throated Sparrow	*Zonotrichia albicollis*	S5B	G5	-	-

Appendix D: 2014 2015 Incidental Wildlife Observations for HIWEC Study Area

Avifauna

Winter Wren	*Troglodytes troglodytes*	S5B	G5	-	-
Wood Duck	*Aix sponsa*	S5	G5	-	-
Wood Thrush	*Hylocichla mustelina*	S4B	G5	-	THR Schedule 1
Yellow Warbler	*Setophaga petechia*	S5B	G5	-	-
Yellow-bellied Sapsucker	*Sphyrapicus varius*	S5B	G5	-	-
Yellow-rumped Warbler	*Setophaga coronata*	S5B	G5	-	-

Herpetofauna

Common Name	Scientific Name	S-rank	G-rank	SARO	SARA
American Bullfrog	*Lithobates catesbeianus*	S4	G5	-	-
American Toad	*Anaxyrus americanus*	S5	G5	-	-
Blanding's Turtle	*Emydoidea blandingii*	S3	G4	THR	THR Schedule 1
Common Five-lined Skink (Southern Shield population)	*Plestiodon fasciatus pop. 2*	S3	G5T3	SC	SC Schedule 1
Eastern Gartersnake	*Thamnophis sirtalis sirtalis*	S5	G5T5	-	-
Four-toed Salamander	*Hemidactylium scutatum*	S4	G5	-	-
Green Frog	*Lithobates clamitans*	S5	G5	-	-
Gray Treefrog	*Hyla versicolor*	S5	G5	-	-
Massasauga (Great Lakes / St. Lawrence population)	*Sistrurus catenatus pop. 1*	S3	GN3	THR	THR Schedule 1
Midland painted Turtle	*Chrysemys picta marginata*	S4	G5T5	-	-
Mink Frog	*Lithobates septentrionalis*	S5	G5	-	-
Northern Leopard Frog	*Lithobates pipiens*	S5	G5	-	-
Northern Watersnake	*Nerodia sipedon sipedon*	S5	G5T5	-	-
Red-bellied Snake	*Storeria occipitomaculata*	S5	G5	-	-
Ring-necked Snake	*Diadophis punctatus*	S4	G5	-	-
Smooth Greensnake	*Opheodrys vernalis*	S4	G5	-	-
Spring Peeper	*Pseudacris crucifer*	S5	G5	-	-
Wood Frog	*Lithobates sylvaticus*	S5	G5	-	-

Mammals

Common Name	Scientific Name	S-rank	G-rank	SARO	SARA
American Marten	*Martes americana*	S5	G5	-	-
Beaver	*Castor canadensis*	S5	G5	-	-
Black Bear	*Ursus americanus*	S5	G5	-	-
Eastern Chipmunk	*Tamias striatus*	S5	G5	-	-
Eastern Gray Squirrel	*Sciurus carolinensis*	S5	G5	-	-
Meadow Vole	*Microtus pennsylvanicus*	S5	G5	-	-
Vole sp.	*unknown*	-	-	-	-
Moose	*Alces americanus*	S5	G5	-	-
North American River Otter	*Lontra canadensis*	S5	G5	-	-
Northern Gray Wolf	*Canis lupus occidentalis*	S4	G4TNR	-	-
Porcupine	*Erethizon dorsatum*	S5	G5	-	-
Red Squirrel	*Tamiasciurus hudsonicus*	S5	G5	-	-
White-tailed Deer	*Odocoileus virginianus*	S5	G5	-	-
Lynx (sighting unconfirmed)	*Lynx canadensis*	S5	G5	-	-
Fox	*Vulpes vulpes*	S5	G5	-	-
Wolf Sp.	*Canis sp.*	-	-	-	-

Insects

Common Name	Scientific Name	S-rank	G-rank	SARO	SARA
Springtails	*Collembola sp.*	-	-	-	-
Grasshopper Sp.	*unknown*	-	-	-	-
Spring Azure	*Celastrina ladon*	SU	G4G5	-	-