APPENDIX A LAND USE BY LAW

1.0 Background

The HRM has adopted a Regional Plan and Community Energy Functional Plan, recognizing the need for alternative sustainable energy and more specifically, the creation of new policies for the siting of wind energy facilities in HRM (HRM 2012). Three energy overlay zones have been created to reflect how wind energy facilities should be treated differently between the urban and rural areas of HRM. Based on the "Beaver Bank, Hammonds Plains, and Upper Sackville Land Use By-law" (2011) the proposed Project would be considered a "Large Wind Energy Facility".

2.0 Overview of Guidelines

Section 4.32 of the by-law indicates the Project site is situated within the Rural Wind Zone (RW-2) which permits all wind energy facilities, subject to a Development Permit, as well as several setbacks and guidelines as outlined in the by-law.

- i. All turbine towers shall have a minimum distance between turbines equal to the height of the tallest tower;
- ii. A minimum distance of 1000 m (3281 ft) from any habitable building on an adjacent property;
- iii. A minimum distance of 1.0 times the tower height from any adjacent property boundary;
- iv. The installation and design shall conform to applicable industry standards;
- v. All structural, electrical and mechanical components of the Wind Energy Facility shall conform to relevant and applicable local, provincial and national codes;
- vi. All electrical wires shall, to the maximum extent possible, be placed underground;
- vii. The visual appearance of the Wind Energy Facility shall at a minimum:
 - o Be a non-obtrusive colour such as white, off-white or gray;
 - Not be artificially lit, except to the extent required by the Federal Aviation Act or other applicable authority that regulates air safety; and
 - Not display advertising (including flags, streamers or decorative items), except for identification of the turbine manufacturer, facility owner and operator.
- viii. The siting of Wind Energy Facilities is subject to the requirements for Watercourse Setbacks and Buffers set out in the Land Use By-law;
- ix. The siting of all accessory buildings are subject to the general set back provision for building under the By-law.

All setback requirements from any Wind Energy Facility to a property boundary may be waived where the adjoining property is part of and forms the same Wind Energy Facility. All Wind Energy Facilities require a development permit. The permit application shall contain the following:

- a) a description of the proposed Wind Energy Facility, including an overview of the project, the proposed total rated capacity of the Wind Energy Facility;
- the proposed number, representative types, and height or range of heights of wind turbines towers to be constructed, including their generating capacity, dimensions, respective manufacturers, and a description of accessory facilities;
- c) identification and location of the properties on which the proposed Wind Energy Facility will be located;



- d) at the discretion of the Development Officer, a survey prepared by a Nova Scotia Land Surveyor, a surveyor's certificate, or a site plan showing the planned location of all wind turbines towers, property lines, setback lines, access roads, turnout locations, substation(s), electrical cabling from the Wind Energy Facility to the substation(s), ancillary equipment, building(s), transmission and distribution lines. The site plan must also include the location of all structures and land parcels, demonstrating compliance with the setbacks and separation distance where applicable;
- e) at the discretion of the Development Officer, proof of notification to the Department of National Defense, NAV Canada, Natural Resources Canada and other applicable agencies regarding potential radio, telecommunications, radar and seismoacoustic interference, if applicable, to Transport Canada and the *Aviation Act*; and
- f) any other relevant information as may be requested by the Halifax Regional Municipality to ensure compliance with the requirements of this By-law.

Additional permit requirements may include the following:

- a) The Development Permit application shall be reviewed by a Municipal Building Official to determine if design submissions are required from a Professional Engineer to ensure that the wind turbine base, foundation, or guy wired anchors required to maintain the structural stability of the wind turbine tower(s) are sufficient where a wind turbine is:
 - i. not attached to a building and is not connected to the power grid;
 - ii. attached to an accessory building in excess of 215 ft² and is not connected to the power grid.
- b) A minimum of 60 day before the date a development permit application is submitted, an applicant shall send a notice to all assessed property owners of property that is within 2000 m (6560 ft) from the boundary of the property upon which any large wind energy facility is proposed.
- c) The notice pursuant to section b) shall include the following information:
 - i. A site plan that includes property boundaries and the location of the proposed wind energy facility;
 - ii. A description of the type of wind energy facility; and
 - iii. The applicant's contact information which shall include a mailing address.

3.0 References

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APPENDIX B ENVIRONMENTAL PROTECTION PLAN SUGGESTED TABLE OF CONTENTS

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APPENDIX C HUMAN HEALTH AND WIND FARMS – A LITERATURE REVIEW

In support of the Environmental Assessment (EA) for the Chebucto Pockwock Community Wind Project, a review was completed of current available literature on the potential effects on human health related to wind energy. Several key health-related issues were identified, and Project-specific studies were completed to address shadow flicker, electromagnetic interference (EMI), visual impacts and sound. Details of these studies are provided in Section 12.0 of the "Environmental Assessment Registration Document".

The following sections provide the reader with additional background information on the potential effects of electromagnetic fields (EMFs), air quality, ice throw/shedding and infrasound on human health.

Electromagnetic Fields

EMFs are a type of energy that occurs naturally and is also created through the use of electrical appliances and equipment (i.e. cell phone usage, radio towers, etc.) (City of Toronto 2011). A guidebook to Wind Energy Development was produced in 2011 and identified transmission lines, wind turbine generators, generator transformers and underground cables as the four potential sources of EMFs as a result of wind farm operations (CanWEA 2011). The guidebook goes on to suggest that EMF exposure is not significant due to low emission levels produced by wind farm operations and indicates that generator transformers likely generate the highest levels of EMFs. Similar conclusions have been made by Health Canada and the World Health Organization (CMOHO 2010).

In 2007, a study was completed to assess the possible effects of EMFs on human health. The study concluded that there is little evidence to support the theory that EMFs cause long term health issues (SCENIHR 2007). As well, a study led by the National Institute of Environmental Health Sciences assessed scientific evidence spanning over 6 years, to determine whether exposure to EMF could result in a potential risk to human health. Results indicated that there were no consistent patterns of biological effects with animals or with cells (EMF RAPID 2002).

Health Canada states that "research has shown that EMFs from electrical devices and power lines can cause weak electric currents to flow through the human body. However, these currents are much smaller than those produced naturally by your brain, nerves and heart, and are not associated with any known health risks" (Health Canada 2010). Health Canada goes on to state that EMFs are strongest when close to the source so that at greater distances, the strength of the field fades rapidly and humans need not engage in specific actions to minimize risk including those who are located just outside the boundaries of power line corridors (Health Canada 2010).

Air Quality

The development and construction phases of a wind energy project may affect local air quality, by increasing air borne dust associated with on-site equipment, and vehicles. Emissions from vehicles and equipment can also contribute to a reduction in local air quality.



The American Wind Energy Association (AWEA) states that the generation of electricity from the wind does not result in any air emissions (AWEA 2010). Similarly, the US Environmental Protection Agency (EPA) recognizes that the emissions associated with wind technology are negligible because no fuels are combusted. Therefore, wind energy production offsets more polluting forms of energy generation and can actually improve air quality and our health.

Ice Throw and Ice Shedding

Under appropriate temperature and humidity conditions, ice can build up on the rotor blades, nacelle and tower of a wind turbine, which can lead to two types of risk:

- ice fragments dislodge and are shed from the rotor of the operating turbine due to aerodynamic and centrifugal forces; and
- ice fragments dislodge from the structure and fall to the ground when it is shut down or idling without power production (CanWEA 2007).

A recent German paper provides a formula for a safe setback distance assuming that the turbines will be shut down in icy conditions (Seifert et al. 2003). The turbines selected for the Project will be equipped with turbine deactivation technology, which detects rotor imbalance caused by ice formation on blades, and triggers the turbine to automatically shut down in icy conditions. The use of this technology will significantly reduce the risk of ice throw, though ice may still fall from the blades and be blown by the wind some distance. The following equation is used to calculate a safe setback distance, accounting for this possibility:

d = ((D/2 + H) / 15)v

where:

d = the best practice setback distance

D = the rotor diameter of the turbine

H = the hub height of the turbine

V = wind speed (m/s)

Turbines for the proposed Project have been located greater than 667 m (alternate turbine location 1) from the nearest provincial road (Pockwock Road), greater than 1 km from the nearest residence, 229 m (turbine 2) from the nearest year-round building (J. Douglas Kline Water Supply Plant), and 5.8 km (turbine 5) from the nearest recreational campground. Though a final decision has not been made on the turbine model to be employed by the Project, it will likely be a model with a 95 m hub height, and a 55 m rotor diameter. The only potential risk from ice throw in this scenario would be to staff of the J. Douglas Kline Water Supply Staff. Based on the above formula, the 244 m setback distance would be suitable up to a wind speed of about 95 km/h. The maximum hourly wind speed recorded at the nearest meteorological station (Halifax International Airport) between 1971-2000 was 89 km/h, recorded on February 10th, 1969, with the highest single wind gust measured at 132 km/h on December 26th, 1976 (EC 2011a). Therefore, the combination of wind speed and direction that would result in ice reaching the water plant is extremely unlikely to occur.



The mitigative strategies described above will decrease and/or eliminate the risk of injury from ice to nearby workers and land users. In addition, the following additional mitigation strategies will be implemented:

- physical and visual warnings (i.e. signs and fences);
- · turbine deactivation during periods of ice accumulation; and
- restriction of access to trained site personnel (Wahl and Giguere 2006).

<u>Infrasound</u>

General Background - Sound

Humans detect sound from changes in pressure that travel through the air and cause the eardrum and small bones of the middle ear to vibrate. The vibrations are transmitted to the inner ear where sensory hair cells then change the vibrations into nerve impulses, which travel to the brain where they are perceived and interpreted.

The magnitude (loudness) of sound is described as "pressure level", "sound level" or "noise level" and is measured as decibels (dB). Typical sound levels, measured in decibels, are shown in Table A.

Table A: Typical Sound Levels

Source	Distance f	Sound Pressure	
Source	feet	meters	Levels (dBA)
Freight train	100	30	70
Vacuum Cleaner	10	3	70
Freeway	100	30	70
Wind in trees	40	12	55
Light traffic	100	30	70
Average home			50
Soft whisper	5	2	30
Quiet bedroom			20

Source: AWEA 2011

The tonal quality or pitch of the sound is related to its frequency and is measure in hertz (Hz). The normal frequency range of sounds that humans can hear (known as audible sound) extends from about 20-50 Hz (a rumbling sound) up to high frequency of about 10,000-15,000 Hz (hissing sound) or even higher for some people. Humans generally hear best in the mid-frequency range of 500-4,000 Hz.

General Background - Infrasound

Infrasound is very low-frequency sound, that is typically defined as being between 1-20 Hz, which is below what human ears can normally hear.



Infrasound is everywhere in the environment. It is emitted from natural sources (e.g. wind, rivers) and from artificial sources including road traffic, aircraft, and ventilation systems. The most common source of infrasound that humans encounter is vehicles (CMOH 2010).

When evaluating potential effects of infrasound, it is important that these frequencies be discussed in the context of the sound pressure levels, or in other words, the loudness of the sound. For instance, very loud sounds at very low frequencies (i.e. 165 dB at 2 Hz, reducing to 145 dB at 20 Hz) may result in pain (Leventhall 2006) and infrasound has been shown to cause annoyance, when the sound level exceeds the threshold of hearing (i.e. the lowest sound levels that a listener can detect) (HGC 2010). Further, research shows that to be physically felt, infrasound must exceed 100–110 dB (Ellenbogen *et al.* 2012).

While there is some variation in the literature and between individual sensitivities, there is fairly good agreement on the level of the threshold of hearing among the various studies that have been completed (Figure 1).

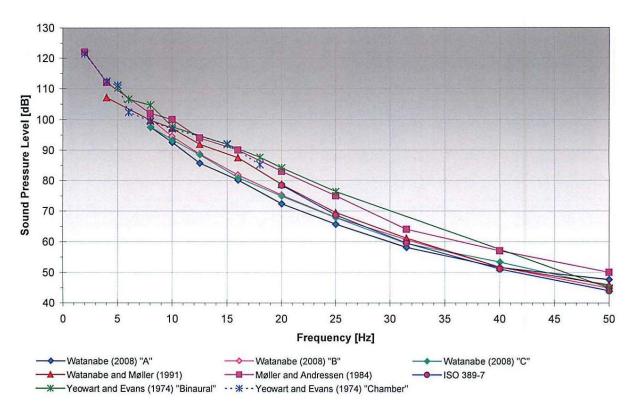


Figure 1: Threshold of Hearing Data from Various Papers (HGC 2010).

What these results show is that the lower the frequency of the sound, the louder the sound needs to be in order to be perceived.



Measured Infrasound Levels

In 2010, Sonus, an acoustic consulting firm based in South Australia, completed a study to measure infrasound produced by a range of natural and manmade sources using a methodology specifically designed to measure infrasound (Table B, Figure 2). The G-weighting network was applied to the measured infrasound pressure levels as it has been standardized to determine the human perception (i.e. threshold of hearing) and annoyance due to noise that lies within the infrasound frequency range. By comparison, when measuring audible sound levels, meters are usually equipped with weighting circuits to simulate the frequency response characteristics of the human ear. The A-weighting filter is normally used as it correlates well with the human perception of most sounds. Sound levels measured using the G and A-weighting filters are expressed as dBG and dBA, respectively.

Table B: Measured Levels of Infrasound from Natural and Manmade Sources

Source	Infrasound Level (dBG)
Threshold of hearing	85 dBG
Wind Farm (360 m downwind) (CGWF)	61 dBG
100 m downwind from wind farm (CBWF)	66 dBG
200 m downwind from wind farm (CBWF)	63 dBG
Ambient infrasound (100 m from nearest turbine with negligible wind	62 dBG
and no turbine operation) (CBWF)	
Inside a residence (fridge operating) (1200m from nearest turbine)	51 dBG
Outside a residence (1200m from nearest turbine)	58 dBG
Adjacent to the beach (25 m from high water mark)	75 dBG
Cliff face (250 m from the coastline)	69 dBG
Inland forest (8 km from the coastline)	57 dBG
Gas fired power station (350 m)	74 dBG
Business District (70 m from two major road corridors)	76 dBG

Source: Sonus Pty Ltd 2010



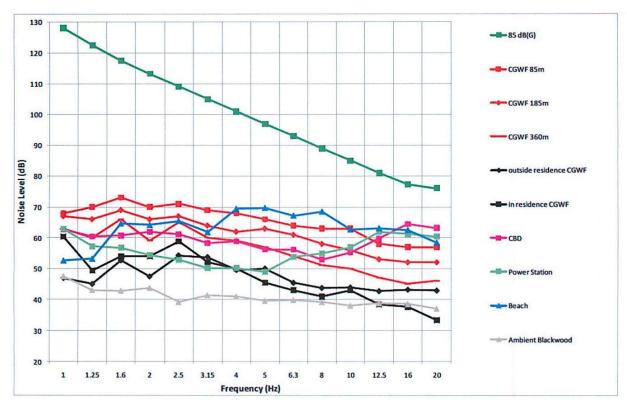


Figure 2: Summary of Measurement at the Clements Gap Wind Farm and Other Sources (Sonus Pty Ltd 2010)

The results of the study indicate that while turbines do produce infrasound, levels are well below established levels that can be perceived by humans and are comparable to natural and urban sources that are common in the environment.

Another recent Australian report also measured levels of infrasound within typical environments in South Australia, with a particular focus on comparing wind farm environments to urban and rural environments away from wind farms. The study concluded that measured infrasound levels at rural locations both near to and away from wind farms were no higher than infrasound levels measured at the urban locations (Figure 3). Human activity and traffic were the main sources of infrasound at urban locations, while localized wind conditions were found to be the main source of infrasound in rural locations. All measurements were below the levels that can be perceived by humans, with most by a significant margin (Evans *et al.* 2013).



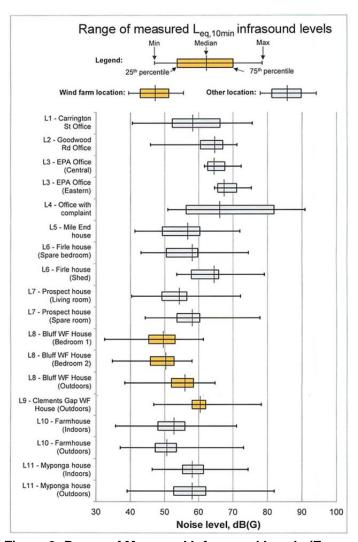


Figure 3: Range of Measured Infrasound Levels (Evans et al. 2013).

An investigation was also completed at a wind farm in Pubnico, Nova Scotia to, in part, evaluate infrasound levels at a residence within 330 m of the closest turbine (HGC 2006). Similar to other results from wind farms, infrasound levels were found to be well below the level of sound that can be perceived by humans, as shown in Figure 4.



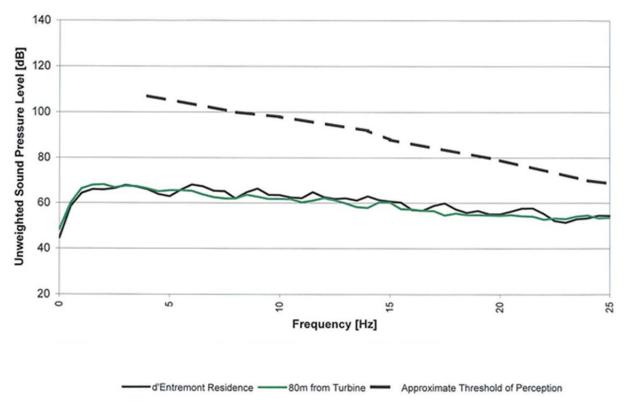


Figure 4: Infrasound Measurements at Pubnico Wind Farm (HGC 2006).

Infrasound and Health Concerns

Concern about infrasound from wind turbines may have originated from the experience of neighbours of early wind turbine designs with downwind rotors (rotors downwind of the tower). In contrast, all modern utility scale wind turbines have upwind rotors that produce significantly lower infrasound emissions (Bastasch *et al.* 2006).

Several studies and panels have been assembled to evaluate the perceived health effects associated with wind turbines.

A scientific advisory panel with expertise in audiology, acoustics, occupational/environmental medicine, and public health was assembled by the wind industry in early 2009 to conduct a review of current literature available on the issue of perceived health effects of wind turbines (Colby *et al.* 2009). Following their review and analysis of the information, the panel reached consensus on the following conclusions:

- There is no evidence that the audible or sub-audible sounds emitted by wind turbines have any direct adverse physiological effects.
- The ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.



The sounds emitted by wind turbines are not unique. There is no reason to believe, based
on the levels and frequencies of the sounds and the panel's experience with sound
exposures in occupational settings, that the sounds from wind turbines could plausibly have
direct adverse health consequences.

The Chief Medical Officer of Health in Ontario also conducted a review of papers and reports (from 1970 to date) on wind turbines and health from scientific bibliographic databases, grey literature, and from a structured Internet search. The report concluded that "low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects" (CMOH 2010).

The Massachusetts Department of Environmental Protection in collaboration with the Massachusetts Department of Public Health recently convened a panel of independent experts to identify any documented or potential health impacts of risks that may be associated with exposure to wind turbines, and, specifically, to facilitate discussion of wind turbines and public health based on scientific findings. The panel concluded that "measured levels of infrasound produced by modern upwind wind turbines at distances as close as 68 m are well below that required for non-auditory perception". Further, the panel concluded that "the weight of the evidence suggests no association between noise from wind turbines and measures of psychological distress or mental health problems" (Ellenbogan *et al.* 2012).

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APPENDIX D WETLAND METHODOLOGY AND CHARACTERIZATIONS

Wetlands and Watercourses in Nova Scotia

Wetlands in Nova Scotia are regulated by NSE under Section 105 of the *Environment Act*. Under the Act, wetlands are:

Land referred to as a marsh, swamp, fen, or bog that either periodically or permanently has water table at, near, or above the land surface or that is saturated with water, and sustains aquatic processes as indicated by the presence of poorly drained soils, hydrophytic vegetation, and biological activities adapted to wet conditions.

Watercourses are defined in the Environment Act as:

Any creek, brook, stream, river, lake, pond, spring, lagoon, or any other natural body of water, and includes all the water in it, and also the bed and the shore (whether there is actually any water in it or not). It also includes all groundwater.

Watercourses are defined in Halifax Regional Municipality (HRM) land use by-laws as:

A lake, river, stream, ocean, or other natural body of water.

Delineation Methodology

In order for a wetland determination to be made, the following three criteria were assessed the field:

- Presence of hydrophytic (water loving) vegetation;
- Presence of hydrologic conditions that result in periods of flooding, ponding, or saturation during the growing season; and
- Presence of hydric soils (anaerobic conditions in upper part).

Although detailed data point analysis was not completed within the study areas, soil pits were completed frequently to confirm the presence/absence of wetland hydrology and hydric soils, as per the methodology below. A general vegetation survey was also completed within the wetlands to confirm hydrophytic vegetation.

Identification of Hydrophytic Vegetation

Hydrophytic vegetation is defined as the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanent or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present (Environmental Laboratory 1987). Hydrophytic vegetation should be the dominant plant type in wetland habitat (Environmental Laboratory 1987).



WETLAND DELINEATION IDENTIFICATION METHODOLOGY

Dominant plant species observed in each wetland were classified according to indicator status (probability of occurrence in wetlands), in accordance with the U.S. Fish and Wildlife Service (USFWS) National List of Vascular Plant Species that Occur in Wetlands: NE Region (Region 1) (Reed 1988). Please refer to Table 1 (below) for these classifications. These indicators are used as this region most closely resembles the flora of Nova Scotia and climate regime. Further relevant information was reviewed in Flora of Nova Scotia (Zinck, 1998).

Table 1: Classification of Wetland-Associated Plant Species¹

Plant Species Classification	Abbreviation ²	Probability of Occurring in Wetland
Obligate	OBL	>99%
Facultative Wetland	FACW	66-99%
Facultative	FAC	33-66%
Facultative Upland	FACU	1-33%
Upland	UPL	<1%
No indicator status	NI	Insufficient information to determine status
Plants That Are Not Listed	NL	Does not occur in wetlands in any region.
(assumed upland species)		

¹ Source: Reed 1988

If the majority (greater than 50%) of the dominant vegetation at a data point is classified as obligate (OBL), facultative wetland (FACW), or facultative (FAC), then the location of the data point is considered to be dominated by hydrophytic vegetation.

Identification of Hydric Soils

A hydric soil is a soil that has formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA-NRCS 2010). Indicators of the presence of a hydric soil include soil colour (gleyed soils and soils with bright mottles and/or low matrix chroma), aquic or preaquic moisture regime, reducing soil conditions, sulfidic material (odour), soils listed on the hydric soils list, iron and manganese concretions, organic soils (histosols), histic epipedon, high organic content in surface layer in sandy soils, and organic streaking in sandy soils.

Soil pits were excavated to a maximum depth of 40 cm or refusal. The soil in each was then examined for hydric soil indicators. The matrix colour and mottle colour (if present) of the soil were determined using the Munsell Soil Colour Charts.

Determination of Wetland Hydrology

Wetland habitat, by definition, either periodically or permanently, has a water table at, near, or above the land surface or that is saturated with water. To be classified as a wetland, a site should have at least one primary indicator or two secondary indicators of wetland hydrology, as shown in Table 2.



² A '+' or '-' symbol can be added to the classification to indicate greater or lesser probability, respectively, of occurrence in a wetland.

WETLAND DELINEATION IDENTIFICATION METHODOLOGY

Table 2: Indicators of Wetland Hydrology

Examples of Primary Indicators	Examples of Secondary Indicators				
Water marks	Oxidized Root Channels in the Upper 30 cm				
Drift Lines	Local Soil Survey Data				
Sediment Deposition	Dry season Water Table				
Drainage Patterns	Stunted or Stressed Plants				
Water-stained leaves					
Visual Observation of Saturated Soils					
Visual Observation of Inundation					

Wetland habitat is assessed for signs of hydrology, via visual observations across the area and through assessment of soil pits.

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Environmental Laboratory. (1987). "Corps of Engineers wetlands delineation manual," <u>Technical Report Y-87-1</u>, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. NTIS No. AD A176 912 (Note: Appendix C information is outdated and must be obtained from regional Wetlands offices)



WET AND ID	WEET AND TVDE	LANDSCAPE		WATER	0011 7/75	SURFACE/HYDROLOGIC	WETLAND	DOMIN	DOMINANT VEGETATION		
WEILAND ID	WETLAND TYPE	POSITION	LANDFORM	FLOW	SOIL TYPE	CONDITIONS	BOUNDARY	Herbs	Shrubs	Trees	WATERCOURSE/WATER BODY PRESENT
1 (south)	Marsh	Terrene	Basin / slope	Throughflow (entrenched)	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Saturated at surface 3) Surface water 4) Water stained leaves	Moderate to steep	narrow-leaved cat-tail (<i>Typha</i> angustifolia); woolly bullrush (<i>Scirpus</i> cyperinus); wild sarsaparilla (<i>Aralia</i> nudicaulis)	None	None	Watercourse 2 flows through this wetland. Watercourse 3a and 3b also source this
1 (north)	Treed swamp	Lotic stream confined	Basin	Throughflow	Organic over depleted mineral (A2 – Histic epipedon)	Saturated at surface Hydrogen sulphide odour Oxidized rhizosphere	Gentle	cinnamon fen (Osmunda cinnamomea); hay scented fern (Dennstaedtia punctilobula); three-seede sedge (Carex trisperma); bunchberry (Cornus canadensis)	mountain holly (Nemopanthus mucronata); Canada holly (Ilex verticillata); balsam fir (Abies balsamea)	black spruce (Picea mariana); white birch (Betula papyrifera); red maple (Acer rubrum)	watercourse 3a and 3b also source this wetland from the east. The wetland is drained by watercourse 2 to the north.
2	Treed swamp	Terrene	Basin	Outflow	Organic over depleted mineral (A2 – Histic epipedon)	1) Saturated at surface 2) Surface water (5 to 10 cm deep)	Gentle	cinnamon fern; New York fern (<i>Thelypteris</i> noveboracensis)	balsam fir; black spruce	red maple; yellow birch (<i>Betula</i> <i>alleghaniensis</i>); black spruce	This wetland is drained to the north by watercourse 6.
3	Treed swamp	Terrene	Basin	Inflow	Organic over depleted mineral (A2 – Histic epipedon)	Saturated at surface Hydrogen sulfide odour in soil Oxydized rhizosphere	Gentle to moderate	cinnamon fern; hay scented fern; rice cut grass (<i>Leersia</i> oryzoides); three-seeded sedge	balsam fir; mountain holly; black spruce; red maple	red maple; black spruce; yellow birch	Ephemberal drainage inflow along an old road from the north and south.
4	Treed swamp	Lotic stream confined	Basin	Throughflow	Organic over bedrock (A1 - Histosol)	1) Saturated at surface 2) Surface water (10 to 20 cm) 3) Groundwater at 15 cm	Gentle to moderate	cinnamon fern; New York fern; three-seeded sedge	balsam fir; yellow birch	red maple; white birch; black spruce; balsam fir	Watercourse 3a flows through this wetland.
5	Marsh	Lotic stream outflow	Basin	Outflow	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Surface water 3) Saturated at surface	Moderate to steep	balsam fir; wild sarsaparilla; narrow-leaved cat-tail	black spruce; red maple	black spruce; yellow birch	Watercourse 2 flows out of this wetland at its northern boundary. The wetland is sourced in part from seepage from the water treatment facility's filtrate lagoons.
6 (north)	Treed swamp	Terrene	Flat	Outflow (inferred)	Organic over bedrock (A1 - Histosol)	Groundwater at 10 cm Surface water Saturated at surface	Gentle	cinnamon fern; beech fern (<i>Phegopteris</i> connectilis); lambkill (<i>Kalmia angustifolia</i>)	black spruce; mountain holly	red maple	Likely sourced in part by seepage from the
6 (south)	Treed swamp	Terrene	Basin / slope	Outflow (inferred)	Organic over depleted mineral (A2 – Histic epipedon)	Saturated at surface Surface water Hydrogen sulfide odour in soil	Gentle	cinnamon fern; three-seeded sedge; balsam fir	balsam fir	black spruce; red maple	water treatment facility's filtrate lagoons.
7	Vernal pool	Terrene	Basin	Isolated	Unknown	Standing water (40 to 50 cm) Aquatic flora	Moderate	Aquatic herbs; woolly bullrush (around peripheries)	None	None	None



		LANDSCAPE		WATER		SURFACE/HYDROLOGIC	WETLAND	DOMINANT VEGETATION			WATERCOURSE/WATER BODY
WETLAND ID	WETLAND TYPE	POSITION	LANDFORM	FLOW	SOIL TYPE	CONDITIONS	BOUNDARY	Herbs	Shrubs	Trees	PRESENT
8	Treed swamp	Terrene	Basin	Isolated	Organic over bedrock (A1 - Histosol)	Saturated at surface Surface water	Gentle	cinnamon fern; three-seeded sedge; New York fern	balsam fir	black spruce; yellow birch	None
9 (northeast)	Treed swamp	Lotic stream confined	Basin	Outflow	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Surface water 3) Saturated at surface	Moderate	cinnamon fern; balsam fir	speckled alder (Alnus incana); balsam fir	None	Watercourse 8 drains this wetland to the
9 (southeast)	Treed swamp	Terrene	Basin	Outflow	Organic over bedrock (A1 - Histosol)	1) Saturated at surface	Gentle	cinnamon fern; New York fern	balsam fir	red maple; balsam fir	east.
10	Treed Swamp	Terrene	Basin	Outflow (ephemeral)	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Surface water 3) Saturated at surface	Moderate	balsam fir; red maple; lambkill	black spruce; red maple	black spruce	Ephemeral drainage outflow to the east.
11	Treed swamp	Lotic stream confined	Basin	Outflow	Organic over bedrock (A1 - Histosol)	Saturated at surface Standing water Water stained leaves	Gentle	cinnamon fern; three-seeded sedge;	balsam fir; Canada holly	balsam fir; black spruce; red maple	Watercourse 9 drains this wetland to the southeast.
12 (west)	Shrub swamp	Terrene	Basin	Outflow (ephemeral)	Organic over depleted mineral (A2 – Histic epipedon)	Saturated at surface	Gentle	cinnamon fern	mountain holly; balsam fir; red maple	None	Ephemeral drainage to the southwest.
12 (east)	Treed swamp	Terrene	Flat / slope	Outflow (ephemeral)	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Surface water 3) Saturated at surface 4) Water stained leaves	Gentle	cinnamon fern; interrupted fern (Osmunda claytoniana)	Canada holly; black spruce; red maple	black spruce; red maple	Ephemeral drainage to the east.
13	Treed swamp	Terrene	Basin	Outflow (ephemeral)	Organic over bedrock (A1 - Histosol)	1) Groundwater at 10 cm 2) Surface water 3) Saturated at surface 4) Water stained leaves	Gentle	cinnamon fern; interrupted fern (Osmunda claytoniana)	Canada holly; yellow birch	black spruce; red maple	Ephemeral drainage to the southeast.
14	Treed swamp	Terrene	Flat / slope	Throughflow (entrenched)	Organic over depleted mineral (A2 – Histic epipedon)	1) Saturated at surface 2) Groundwater at 15 cm 3) Surface water (10 to 15 cm deep) 4) Water-stained leaves 5) Drainage patterns	Gentle	cinnamon fern; New York fern; hay scented fern; three-seeded sedge	balsam fir; black spruce	black spruce; balsam fir; white birch; yellow birch	Watercourses 11, 12, and 13 flow through this wetland through entrenched channels.
15	Marsh	Terrene	Basin	Throughflow (entrenched)	Organic over depleted mineral (A2 – Histic epipedon)	1) Groundwater at 12 cm 2) Saturated at surface 3) Pools of standing water	Moderate	water-horsetail (<i>Equisetum</i> fluviatile); narrow- leaved cat-tail	speckled alder; yellow birch	None	Watercourse 10 enters the wetland from the north abutting the road. The desktop review indicates this wetland drains to the north beyond the assessed area.



APPENDIX E ACCDC AND PROJECT SITE PLANT LISTS

Common Name	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Vascular Plants					
Chinese Hemlock-parsley	Conioselinum chinense	Yellow	Not Listed	Not Listed	Not Listed
Eastern Lilaeopsis	Lilaeopsis chinensis	Yellow	Special Concern	Special Concern	Vulnerable
Blunt Sweet Cicely	Osmorhiza depauperata	Red	Not Listed	Not Listed	Not Listed
Smooth Sweet Cicely	Osmorhiza longistylis	Red	Not Listed	Not Listed	Not Listed
Clustered Sanicle	Sanicula odorata	Red	Not Listed	Not Listed	Not Listed
Golden Alexanders	Zizia aurea	Red	Not Listed	Not Listed	Not Listed
Rosy Pussytoes	Antennaria rosea	Red	Not Listed	Not Listed	Not Listed
Parlin's Pussytoes	Antennaria parlinii	Red	Not Listed	Not Listed	Not Listed
Hyssop-leaved Fleabane	Erigeron hyssopifolius	Yellow	Not Listed	Not Listed	Not Listed
Philadelphia Fleabane	Erigeron philadelphicus	Yellow	Not Listed	Not Listed	Not Listed
Coastal Plain Joe-pye-weed	Eutrochium dubium	Red	Not Listed	Not Listed	Not Listed
Robinson's Hawkweed	Hieracium robinsonii	Yellow	Not Listed	Not Listed	Not Listed
Big-leaved Marsh-elder	Iva frutescens	Yellow	Not Listed	Not Listed	Not Listed
Hairy Lettuce	Lactuca hirsuta	Yellow	Not Listed	Not Listed	Not Listed
Water Beggarticks	Bidens beckii	Yellow	Not Listed	Not Listed	Not Listed
Cut-Leaved Coneflower	Rudbeckia laciniata	Yellow	Not Listed	Not Listed	Not Listed
Seabeach Ragwort	Senecio pseudoarnica	Yellow	Not Listed	Not Listed	Not Listed
Hairy Goldenrod	Solidago hispida	Red	Not Listed	Not Listed	Not Listed
White Snakeroot	Ageratina altissima	Red	Not Listed	Not Listed	Not Listed
Boreal Aster	Symphyotrichum boreale	Yellow	Not Listed	Not Listed	Not Listed
Wavy-leaved Aster	Symphyotrichum undulatum	Yellow	Not Listed	Not Listed	Not Listed
Fringed Blue Aster	Symphyotrichum ciliolatum	Yellow	Not Listed	Not Listed	Not Listed
Pale Jewelweed	Impatiens pallida	Yellow	Not Listed	Not Listed	Not Listed
Blue Cohosh	Caulophyllum thalictroides	Red	Not Listed	Not Listed	Not Listed
Smooth Alder	Alnus serrulata	Yellow	Not Listed	Not Listed	Not Listed
Newfoundland Dwarf Birch	Betula michauxii	Yellow	Not Listed	Not Listed	Not Listed
Wild Comfrey	Cynoglossum virginianum	Red	Not Listed	Not Listed	Not Listed
Drummond's Rockcress	Arabis drummondii	Yellow	Not Listed	Not Listed	Not Listed
Western Hairy Rockcress	Arabis hirsuta	Red	Not Listed	Not Listed	Not Listed
Small-flowered Bittercress	Cardamine parviflora	Yellow	Not Listed	Not Listed	Not Listed
Large Toothwort	Cardamine maxima	Red	Not Listed	Not Listed	Not Listed
Rock Whitlow-Grass	Draba glabella	Red	Not Listed	Not Listed	Not Listed
Marsh Bellflower	Campanula aparinoides	Yellow	Not Listed	Not Listed	Not Listed
Pale-Spiked Lobelia	Lobelia spicata	Red	Not Listed	Not Listed	Not Listed
Greenland Stitchwort	Minuartia groenlandica	Yellow	Not Listed	Not Listed	Not Listed
Sleepy Catchfly	Silene antirrhina	Red	Not Listed	Not Listed	Not Listed
Saltmarsh Starwort	Stellaria humifusa	Yellow	Not Listed	Not Listed	Not Listed
Long-leaved Starwort	Stellaria longifolia	Yellow	Not Listed	Not Listed	Not Listed
Roland's Sea-Blite	Suaeda rolandii	Red	Not Listed	Not Listed	Not Listed
Long-branched Frostweed	Helianthemum canadense	Red	Not Listed	Not Listed	Not Listed
Pinebarren Golden Heather	Hudsonia ericoides	Yellow	Not Listed	Not Listed	Not Listed
Coastal Sweet Pepperbush	Clethra alnifolia	Yellow	Special Concern	Special Concern	Vulnerable



Common Name	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Disguised St John's-wort	Hypericum dissimulatum	Yellow	Not Listed	Not Listed	Not Listed
Orange-fruited Tinker's Weed	Triosteum aurantiacum	Yellow	Not Listed	Not Listed	Not Listed
Water Pygmyweed	Crassula aquatica	Yellow	Not Listed	Not Listed	Not Listed
Buttonbush Dodder	Cuscuta cephalanthi	Red	Not Listed	Not Listed	Not Listed
Soapberry	Shepherdia canadensis	Yellow	Not Listed	Not Listed	Not Listed
Pink Crowberry	Empetrum eamesii	Yellow	Not Listed	Not Listed	Not Listed
Northern Blueberry	Vaccinium boreale	Red	Not Listed	Not Listed	Not Listed
Dwarf Bilberry	Vaccinium caespitosum	Yellow	Not Listed	Not Listed	Not Listed
Alpine Bilberry	Vaccinium uliginosum	Yellow	Not Listed	Not Listed	Not Listed
Robbins' Milkvetch	Astragalus robbinsii	Red	Not Listed	Not Listed	Not Listed
Canada Tick-trefoil	Desmodium canadense	Red	Not Listed	Not Listed	Not Listed
Large Tick-Trefoil	Desmodium glutinosum	Red	Not Listed	Not Listed	Not Listed
Field Locoweed	Oxytropis campestris	Red	Not Listed	Not Listed	Not Listed
Farwell's Water Milfoil	Myriophyllum farwellii	Yellow	Not Listed	Not Listed	Not Listed
Whorled Water Milfoil	Myriophyllum verticillatum	Yellow	Not Listed	Not Listed	Not Listed
Comb-leaved Mermaidweed	Proserpinaca pectinata	Yellow	Not Listed	Not Listed	Not Listed
Intermediate Mermaidweed	Proserpinaca intermedia	Red	Not Listed	Not Listed	Not Listed
American False Pennyroyal	Hedeoma pulegioides	Yellow	Not Listed	Not Listed	Not Listed
Canada Germander	Teucrium canadense	Yellow	Not Listed	Not Listed	Not Listed
False Mermaidweed	Floerkea proserpinacoides	Yellow	Not at Risk	Not Listed	Not Listed
Inverted Bladderwort	Utricularia resupinata	Red	Not Listed	Not Listed	Not Listed
Swamp Loosestrife	Decodon verticillatus	Yellow	Not Listed	Not Listed	Not Listed
Black Ash	Fraxinus nigra	Yellow	Not Listed	Not Listed	Not Listed
Red Ash	Fraxinus pennsylvanica	Red	Not Listed	Not Listed	Not Listed
Purple-veined Willowherb	Epilobium coloratum	Yellow	Not Listed	Not Listed	Not Listed
Downy Willowherb	Epilobium strictum	Yellow	Not Listed	Not Listed	Not Listed
American Cancer-root	Conopholis americana	Red	Not Listed	Not Listed	Not Listed
Blood Milkwort	Polygala sanguinea	Yellow	Not Listed	Not Listed	Not Listed
Halberd-leaved Tearthumb	Persicaria arifolia	Yellow	Not Listed	Not Listed	Not Listed
Climbing False Buckwheat	Fallopia scandens	Yellow	Not Listed	Not Listed	Not Listed
Triangular-valve Dock	Rumex triangulivalvis	Yellow	Not Listed	Not Listed	Not Listed
Horn-leaved Riverweed	Podostemum	Red	Not Listed	Not Listed	Not Listed
	ceratophyllum Montio fontono			Not Listed	Not Listed Not Listed
Water Blinks	Montia fontana	Red	Not Listed	Not Listed	
Mistassini Primrose	Primula mistassinica	Yellow	Not Listed	Not Listed	Not Listed
Seaside Brookweed	Samolus valerandi	Yellow	Not Listed	Not Listed	Not Listed
Lesser Pyrola	Pyrola minor	Yellow	Not Listed	Not Listed	Not Listed
Canada Anemone	Anemone canadensis	Red	Not Listed	Not Listed	Not Listed
Wood Anemone	Anemone quinquefolia	Yellow	Not Listed	Not Listed	Not Listed
Virginia Anemone	Anemone virginiana	Yellow	Not Listed	Not Listed	Not Listed
Round-lobed Hepatica	Anemone americana	Red	Not Listed	Not Listed	Not Listed
Cursed Buttercup	Ranunculus sceleratus	Red	Not Listed	Not Listed	Not Listed
Alder-leaved Buckthorn	Rhamnus alnifolia Amelanchier	Yellow	Not Listed	Not Listed	Not Listed
Nantucket Serviceberry	nantucketensis	Red	Not Listed	Not Listed	Not Listed



Common Name	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Common Buttonbush	Cephalanthus occidentalis	Yellow	Not Listed	Not Listed	Not Listed
Northern Bedstraw	Galium boreale	Red	Not Listed	Not Listed	Not Listed
Bog Willow	Salix pedicellaris	Yellow	Not Listed	Not Listed	Not Listed
Silky Willow	Salix sericea	Red	Not Listed	Not Listed	Not Listed
Northern Comandra	Geocaulon lividum	Yellow	Not Listed	Not Listed	Not Listed
White Mountain Saxifrage	Saxifraga paniculata	Yellow	Not Listed	Not Listed	Not Listed
Heart-leaved Foamflower	Tiarella cordifolia	Yellow	Not Listed	Not Listed	Not Listed
Clammy Hedge-Hyssop	Gratiola neglecta	Yellow	Not Listed	Not Listed	Not Listed
Southern Mudwort	Limosella australis	Yellow	Not Listed	Not Listed	Not Listed
Eastern Leatherwood	Dirca palustris	Red	Not Listed	Not Listed	Not Listed
Canada Wood Nettle	Laportea canadensis	Yellow	Not Listed	Not Listed	Not Listed
Dwarf Clearweed	Pilea pumila	Red	Not Listed	Not Listed	Not Listed
Northern Bog Violet	Viola nephrophylla	Yellow	Not Listed	Not Listed	Not Listed
Eastern White Cedar	Thuja occidentalis	Red	Not Listed	Not Listed	Vulnerable
Lesser Brown Sedge	Carex adusta	Yellow	Not Listed	Not Listed	Not Listed
Scabrous Black Sedge	Carex atratiformis	Yellow	Not Listed	Not Listed	Not Listed
Bebb's Sedge	Carex bebbii	Red	Not Listed	Not Listed	Not Listed
Hairlike Sedge	Carex capillaris	Yellow	Not Listed	Not Listed	Not Listed
Chestnut Sedge	Carex castanea	Red	Not Listed	Not Listed	Not Listed
Bearded Sedge	Carex comosa	Yellow	Not Listed	Not Listed	Not Listed
Bristle-leaved Sedge	Carex eburnea	Yellow	Not Listed	Not Listed	Not Listed
Garber's Sedge	Carex garberi	Red	Not Listed	Not Listed	Not Listed
Hayden's Sedge	Carex haydenii	Red	Not Listed	Not Listed	Not Listed
Pubescent Sedge	Carex hirtifolia	Yellow	Not Listed	Not Listed	Not Listed
Houghton's Sedge	Carex houghtoniana	Yellow	Not Listed	Not Listed	Not Listed
Porcupine Sedge	Carex hystericina	Red	Not Listed	Not Listed	Not Listed
Woolly Sedge	Carex pellita	Red	Not Listed	Not Listed	Not Listed
Loose-Flowered Sedge	Carex laxiflora	Red	Not Listed	Not Listed	Not Listed
Livid Sedge	Carex livida	Red	Not Listed	Not Listed	Not Listed
Peck's Sedge	Carex peckii	Red	Not Listed	Not Listed	Not Listed
Plantain-Leaved Sedge	Carex plantaginea	Red	Not Listed	Not Listed	Not Listed
Prairie Sedge	Carex prairea	Red	Not Listed	Not Listed	Not Listed
Swan's Sedge	Carex swanii	Yellow	Not Listed	Not Listed	Not Listed
Tender Sedge	Carex tenera	Yellow	Not Listed	Not Listed	Not Listed
Tuckerman's Sedge	Carex tuckermanii	Red	Not Listed	Not Listed	Not Listed
Yellow Spikerush	Eleocharis flavescens	Yellow	Not Listed	Not Listed	Not Listed
Ovate Spikerush	Eleocharis ovata	Yellow	Not Listed	Not Listed	Not Listed
Slender Cottongrass	Eriophorum gracile	Yellow	Not Listed	Not Listed	Not Listed
Long's Bulrush	Scirpus longii	Yellow	Special Concern	Special Concern	Vulnerable
Redroot	Lachnanthes caroliana	Red	Special Concern	Threatened	Threatened
Coastal Plain Blue-eyed-grass	Sisyrinchium fuscatum	Red	Not Listed	Not Listed	Not Listed
Sharp-fruited Rush	Juncus acuminatus	Yellow	Not Listed	Not Listed	Not Listed
Greene's Rush	Juncus greenei	Red	Not Listed	Not Listed	Not Listed
Grass-leaved Rush	Juncus marginatus	Yellow	Not Listed	Not Listed	Not Listed



Common Name	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
One-sided Rush	Juncus secundus	Red	Not Listed	Not Listed	Not Listed
Woodland Rush	Juncus subcaudatus	Yellow	Not Listed	Not Listed	Not Listed
Dudley's Rush	Juncus dudleyi	Yellow	Not Listed	Not Listed	Not Listed
Wild Chives	Allium schoenoprasum	Red	Not Listed	Not Listed	Not Listed
Wild Leek	Allium tricoccum	Red	Not Listed	Not Listed	Not Listed
Canada Lily	Lilium canadense	Yellow	Not Listed	Not Listed	Not Listed
Golden Crest	Lophiola aurea	Red	Special Concern	Threatened	Threatened
Thread-Like Naiad	Najas gracillima	Red	Not Listed	Not Listed	Not Listed
Long-bracted Frog Orchid	Coeloglossum viride	Red	Not Listed	Not Listed	Not Listed
Ram's-Head Lady's-Slipper	Cypripedium arietinum	Red	Not Listed	Not Listed	Endangered
Yellow Lady's-slipper	Cypripedium parviflorum	Yellow	Not Listed	Not Listed	Not Listed
Showy Lady's-Slipper	Cypripedium reginae	Red	Not Listed	Not Listed	Not Listed
Downy Rattlesnake-Plantain	Goodyera pubescens	Red	Not Listed	Not Listed	Not Listed
Lesser Rattlesnake-plantain	Goodyera repens	Yellow	Not Listed	Not Listed	Not Listed
Southern Twayblade	Listera australis	Red	Not Listed	Not Listed	Not Listed
White Adder's-Mouth	Malaxis monophyllos	Red	Not Listed	Not Listed	Not Listed
Tubercled Orchid	Platanthera flava	Yellow	Not Listed	Not Listed	Not Listed
Large Round-Leaved Orchid	Platanthera macrophylla	Yellow	Not Listed	Not Listed	Not Listed
Case's Ladies'-Tresses	Spiranthes casei	Yellow	Not Listed	Not Listed	Not Listed
Shining Ladies'-Tresses	Spiranthes lucida	Red	Not Listed	Not Listed	Not Listed
Yellow Ladies'-tresses	Spiranthes ochroleuca	Yellow	Not Listed	Not Listed	Not Listed
Short-awned Foxtail	Alopecurus aequalis	Yellow	Not Listed	Not Listed	Not Listed
Slim-stemmed Reed Grass	Calamagrostis stricta	Yellow	Not Listed	Not Listed	Not Listed
Narrow-leaved Panic Grass	Dichanthelium linearifolium	Yellow	Not Listed	Not Listed	Not Listed
Slender Panic Grass	Dichanthelium xanthophysum	Red	Not Listed	Not Listed	Not Listed
Wiegand's Wild Rye	Elymus wiegandii	Red	Not Listed	Not Listed	Not Listed
Spreading Wild Rye	Elymus hystrix	Red	Not Listed	Not Listed	Not Listed
Nodding Fescue	Festuca subverticillata	Red	Not Listed	Not Listed	Not Listed
Canada Rice Grass	Piptatherum canadense	Yellow	Not Listed	Not Listed	Not Listed
Tuckerman's Panic Grass	Panicum tuckermanii	Yellow	Not Listed	Not Listed	Not Listed
Redtop Panic Grass	Panicum rigidulum	Yellow	Not Listed	Not Listed	Not Listed
Glaucous Blue Grass	Poa glauca	Yellow	Not Listed	Not Listed	Not Listed
Slender Rice Grass	Piptatherum pungens	Yellow	Not Listed	Not Listed	Not Listed
Fries' Pondweed	Potamogeton friesii	Red	Not Listed	Not Listed	Not Listed
White-stemmed Pondweed	Potamogeton praelongus	Yellow	Not Listed	Not Listed	Not Listed
Richardson's Pondweed	Potamogeton richardsonii	Red	Not Listed	Not Listed	Not Listed
Flat-stemmed Pondweed	Potamogeton zosteriformis	Yellow	Not Listed	Not Listed	Not Listed
Northern Maidenhair Fern	Adiantum pedatum	Red	Not Listed	Not Listed	Not Listed
Steller's Rockbrake	Cryptogramma stelleri	Red	Not Listed	Not Listed	Not Listed
Maidenhair Spleenwort	Asplenium trichomanes	Yellow	Not Listed	Not Listed	Not Listed
Green Spleenwort	Asplenium viride	Yellow	Not Listed	Not Listed	Not Listed
Fragrant Wood Fern	Dryopteris fragrans	Yellow	Not Listed	Not Listed	Not Listed



Common Name	Scientific Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Smooth Cliff Fern	Woodsia glabella	Yellow	Not Listed	Not Listed	Not Listed
Marsh Horsetail	Equisetum palustre	Red	Not Listed	Not Listed	Not Listed
Meadow Horsetail	Equisetum pratense	Yellow	Not Listed	Not Listed	Not Listed
Acadian Quillwort	Isoetes acadiensis	Yellow	Not Listed	Not Listed	Not Listed
Prototype Quillwort	Isoetes prototypus	Yellow	Special Concern	Special Concern	Vulnerable
Triangle Moonwort	Botrychium lanceolatum	Yellow	Not Listed	Not Listed	Not Listed
Common Moonwort	Botrychium lunaria	Red	Not Listed	Not Listed	Not Listed
Least Moonwort	Botrychium simplex	Yellow	Not Listed	Not Listed	Not Listed
Northern Adder's-tongue	Ophioglossum pusillum	Yellow	Not Listed	Not Listed	Not Listed
Lichens					
Ghost Antler Lichen	Pseudevernia cladonia	Yellow	Not at Risk	No Status	Not Listed
Boreal Felt Lichen (Atlantic pop.)	Erioderma pedicellatum	Red	Endangered	Endangered	Endangered



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Scientific Name	Common Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Hieracium piloselloides Hieracium scabrum	Tall Hawkweed Rough Hawkweed	Exotic Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Houstonia (Hedyotis) caerulea	Common Bluets	Green	Not Listed	Not Listed	Not Listed
Hydrocotyle americana	American Water-Pennywort	Green	Not Listed	Not Listed	Not Listed
Hypericum boreale	Northern St. John's-Wort	Green	Not Listed	Not Listed	Not Listed
Hypericum perforatum	A St. John's-Wort	Exotic	Not Listed	Not Listed	Not Listed
llex verticillata	Black Holly	Green	Not Listed	Not Listed	Not Listed
Juncus canadensis	Canada Rush	Green	Not Listed	Not Listed	Not Listed
Juncus effusus Juncus tenuis	Soft Rush Slender Rush	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Juniperus communis	Ground Juniper	Green	Not Listed	Not Listed	Not Listed
Kalmia angustifolia	Sheep-Laurel	Green	Not Listed	Not Listed	Not Listed
Kalmia polifolia	Pale Laurel	Green	Not Listed	Not Listed	Not Listed
Larix Iaricina	American Larch	Green	Not Listed	Not Listed	Not Listed
Ledum groenlandicum	Common Labrador Tea	Green	Not Listed	Not Listed	Not Listed
Leucanthemum vulgare	Oxeye Daisy	Exotic	Not Listed	Not Listed	Not Listed
Linnaea borealis Lonicera villosa	Twinflower Mountain Fly-Honeysuckle	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Lotus corniculatus	Birds-Foot Trefoil	Exotic	Not Listed	Not Listed	Not Listed
Lycopodium annotinum	Stiff Clubmoss	Green	Not Listed	Not Listed	Not Listed
Lycopodium clavatum	Running Pine	Green	Not Listed	Not Listed	Not Listed
Lycopodium dendroideum	Treelike Clubmoss	Green	Not Listed	Not Listed	Not Listed
Lycopus americanus	American Bugleweed	Green	Not Listed	Not Listed	Not Listed
Lycopus uniflorus	Northern Bugleweed	Green	Not Listed	Not Listed	Not Listed
Lysimachia terrestris Majanthamum canadonso	Swamp Loosestrife Wild Lily-of-The-Valley	Green Green	Not Listed Not Listed	Not Listed	Not Listed Not Listed
Maianthemum canadense Medeola virginiana	Indian Cucumber-Root	Green	Not Listed	Not Listed Not Listed	Not Listed
Melilotus officinalis	Yellow Sweetclover	Exotic	Not Listed	Not Listed	Not Listed
Mimulus ringens	Square-Stem Monkeyflower	Green	Not Listed	Not Listed	Not Listed
Mitchella repens	Partridge-Berry	Green	Not Listed	Not Listed	Not Listed
Monotropa hypopithys	American Pinesap	Green	Not Listed	Not Listed	Not Listed
Monotropa uniflora	Indian-Pipe	Green	Not Listed	Not Listed	Not Listed
Nemopanthus mucronatus Oclemena acuminata	Mountain Holly	Green	Not Listed	Not Listed	Not Listed
Ociemena acuminata Ociemena nemoralis	Whorled Aster Bog Aster	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Oenothera biennis	Common Evening-Primrose	Green	Not Listed	Not Listed	Not Listed
Onoclea sensibilis	Sensitive Fern	Green	Not Listed	Not Listed	Not Listed
Osmunda cinnamomea	Cinnamon Fern	Green	Not Listed	Not Listed	Not Listed
Osmunda claytoniana	Interrupted Fern	Green	Not Listed	Not Listed	Not Listed
Osmunda regalis	Royal Fern	Green	Not Listed	Not Listed	Not Listed
Oxalis montana Oxalis stricta	White Wood-Sorrel Upright Yellow Wood-Sorrel	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Petasites frigidus	Sweet Coltsfoot	Green	Not Listed	Not Listed	Not Listed
Phegopteris connectilis	Northern Beech Fern	Green	Not Listed	Not Listed	Not Listed
Photinia (= Aronia) melanocarpa	Black Chokeberry	Green	Not Listed	Not Listed	Not Listed
Picea glauca	White Spruce	Green	Not Listed	Not Listed	Not Listed
Picea mariana	Black Spruce	Green	Not Listed	Not Listed	Not Listed
Picea rubens	Red Spruce	Green	Not Listed	Not Listed	Not Listed
Pinus strobus	Eastern White Pine	Green	Not Listed	Not Listed	Not Listed
Platanthera clavellata Pogonia ophioglossoides	Small Green Woodland Orchid Rose Pogonia	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Polygonum (Fallopia) convolvulus	Black Bindweed	Exotic	Not Listed	Not Listed	Not Listed
Polypodium virginianum	Rock Polypody	Green	Not Listed	Not Listed	Not Listed
Polystichum acrostichoides	Christmas Fern	Green	Not Listed	Not Listed	Not Listed
Populus balsamifera	Balsam Poplar	Green	Not Listed	Not Listed	Not Listed
Populus grandidentata	Large-Tooth Aspen	Green	Not Listed	Not Listed	Not Listed
Populus tremuloides	Quaking Aspen	Green	Not Listed	Not Listed	Not Listed
Potentilla recta Potentilla simplex	Sulphur Cinquefoil Old-Field Cinquefoil	Exotic Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Prenanthes trifoliolata	Three-Leaved Rattlesnake-root	Green	Not Listed	Not Listed	Not Listed
Prunella vulgaris	Self-Heal	Green	Not Listed	Not Listed	Not Listed
Prunus pensylvanica	Fire Cherry	Green	Not Listed	Not Listed	Not Listed
Pteridium aquilinum	Bracken Fern	Green	Not Listed	Not Listed	Not Listed
Rhododendron canadense	Rhodora	Green	Not Listed	Not Listed	Not Listed
Rosa virginiana	Virginia Rose	Green	Not Listed	Not Listed	Not Listed
Rubus allegheniensis Rubus hispidus	Allegheny Blackberry Bristly Dewberry	Green Green	Not Listed Not Listed	Not Listed Not Listed	Not Listed Not Listed
Rubus idaeus	Red Raspberry	Green	Not Listed	Not Listed	Not Listed
Rubus pubescens	Dwarf Red Raspberry	Green	Not Listed	Not Listed	Not Listed
Salix discolor	Pussy Willow	Green	Not Listed	Not Listed	Not Listed
Salix eriocephala	Heart-Leaved Willow	Green	Not Listed	Not Listed	Not Listed
Sambucus racemosa	Red Elderberry	Green	Not Listed	Not Listed	Not Listed
Sarracenia purpurea	Northern Pitcher-Plant	Green	Not Listed	Not Listed	Not Listed
Scirpus cyperinus	Cottongrass Bulrush	Green	Not Listed	Not Listed	Not Listed
Scirpus microcarpus	Small-Fruit Bulrush	Green	Not Listed	Not Listed	Not Listed



Scientific Name	Common Name	NSDNR Status	COSEWIC Status	SARA Status	NSESA Status
Scutellaria galericulata	Hooded Skullcap	Green	Not Listed	Not Listed	Not Listed
Solidago puberula	Downy Goldenrod	Green	Not Listed	Not Listed	Not Listed
Solidago rugosa	Rough-Leaf Goldenrod	Green	Not Listed	Not Listed	Not Listed
Solidago uliginosa	Bog Goldenrod	Green	Not Listed	Not Listed	Not Listed
Sorbus americana	American Mountain-Ash	Green	Not Listed	Not Listed	Not Listed
Sorbus aucuparia	European Mountain-Ash	Exotic	Not Listed	Not Listed	Not Listed
Sparganium americanum	American Bur-Reed	Green	Not Listed	Not Listed	Not Listed
Spiraea alba	Narrow-Leaved Meadow-Sweet	Green	Not Listed	Not Listed	Not Listed
Spiraea tomentosa	Hardhack Spiraea	Green	Not Listed	Not Listed	Not Listed
Spiranthes cernua	Nodding Ladies'-Tresses	Green	Not Listed	Not Listed	Not Listed
Symphyotrichum lateriflorum	Farewell-Summer	Green	Not Listed	Not Listed	Not Listed
Symphyotrichum novi-belgii	New Belgium American-Aster	Green	Not Listed	Not Listed	Not Listed
Thelypteris noveboracensis	New York Fern	Green	Not Listed	Not Listed	Not Listed
Triadenum virginicum	Marsh St. John's Wort	Green	Not Listed	Not Listed	Not Listed
Trientalis borealis	Northern Starflower	Green	Not Listed	Not Listed	Not Listed
Trifolium arvense	Rabbit-Foot Clover	Exotic	Not Listed	Not Listed	Not Listed
Trifolium aureum	Yellow Clover	Exotic	Not Listed	Not Listed	Not Listed
Trillium undulatum	Painted Trillium	Green	Not Listed	Not Listed	Not Listed
Tsuga canadensis	Eastern Hemlock	Green	Not Listed	Not Listed	Not Listed
Tussilago farfara	Colt's Foot	Exotic	Not Listed	Not Listed	Not Listed
Typha latifolia	Broad-Leaf Cattail	Green	Not Listed	Not Listed	Not Listed
Vaccinium angustifolium	Late Lowbush Blueberry	Green	Not Listed	Not Listed	Not Listed
Vaccinium macrocarpon	Large Cranberry	Green	Not Listed	Not Listed	Not Listed
Vaccinium myrtilloides	Velvetleaf Blueberry	Green	Not Listed	Not Listed	Not Listed
Vaccinium oxycoccos	Small Cranberry	Green	Not Listed	Not Listed	Not Listed
Veronica officinalis	Gypsy-Weed	Exotic	Not Listed	Not Listed	Not Listed
Viburnum nudum	Possum-Haw Viburnum	Green	Not Listed	Not Listed	Not Listed
Viola sp.	violets	N/A	N/A	N/A	N/A

