# APPENDIX F1 AMEC 2010 and 2014 Wetland Baseline Survey Report

Attachment A – Wetland Delineation Data Sheets and Habitat Assessment Forms

Black Point Quarry Project Guysborough County, NS SLR Project No.: 210.05913.00000



## 2010 / 2011 / 2014 WETLAND FIELD SURVEY, DELINEATION AND FUNCTIONAL ASSESSMENT REPORT

## BLACK POINT QUARRY GUYSBOROUGH COUNTY

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# 1.0 INTRODUCTION

Vulcan Materials Company and Morien Resources Corp. (the Proponent) proposes the development, operation, decommissioning and abandonment of a granite quarry and marine terminal at Black Point in Guysborough County, Nova Scotia. The Black Point Quarry Project consists of aggregate production (drilling, blasting, processing and stockpiling) on a 354.5 ha property, along with the construction and operation of a 200 m long marine terminal adjacent to the quarry in Chedabucto Bay. The aggregate will be loaded into bulk carriers up to 70,000 DWT and transported to ports along the US eastern and Gulf coasts and potentially to markets in Canada and the Caribbean.

# 1.1 Project Area

The Black Point Quarry Project (the Project) is located on the south shore of Chedabucto Bay in the District of Guysborough, Nova Scotia. The proposed Project Site is approximately 2 and 2.5 km from the communities of Half Island Cove in the west, and Fox Island Main in the east, respectively. The Project is situated between Highway 16 and the Atlantic coast in an area dominated by coniferous forests, coastal barrens, as well as various types of wetlands including, bog, fen, swamp and marsh. A power transmission line corridor runs along the south end of the property and with the exception of a few ATV trails, skidder tracks and property cut lines, the area is relatively undisturbed.

# 1.2 Scope of Work

In preparation for construction activities planned within the Black Point Quarry Project boundary, wetlands located within the Project area must be identified, delineated and assessed in terms of ecological functions they provide. This work is required to determine the potential impacts the Project may have on wetland habitat. The information will also be used to prepare wetland alteration applications to NSE and associated plans for wetland compensation. The following activities were conducted to identify and delineate wetland habitat present:

- Review aerial photographs and existing maps to identify location of wetlands;
- Determine wetlands in the field using three parameter approach (soil, vegetation, and hydrology);
- Mark wetland boundaries with physical markers and GPS;
- Conduct wetland habitat and functional assessments; and
- Reporting including photographs and field data sheets.



## 2.0 WETLANDS REGULATORY REQUIREMENT AND DEFINITIONS

Several definitions of "wetland" exist in literature:

- Lands that are seasonally or permanently covered by shallow water, including lands where the water table is at or close to the surface. The presence of abundant water causes the formation of hydric soils and favours the dominance of either hydrophytic or water-tolerant plants. The five major types of wetlands are: marshes, swamps, bogs, fens and shallow open waters (Environment Canada, 2013);
- A wetland is land "where the water table is at, near, or above the surface or which is saturated for a long enough period to promote such features as wet-altered soils and water tolerant vegetation" (Environment Canada, 1996);
- A wetland is land that is "saturated with water long enough to promote wetland or aquatic processes as indicated by poorly drained soils, hydrophytic (i.e., water-loving) vegetation and various kinds of biological activity which are adapted to a wet environment" (Government of Canada, 1991); and
- Wetlands are areas of "marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six meters" (UNESCO, 1987).

Although each definition is slightly different, the relevant common aspects adopted for the purpose of this report that define a wetland are:

- Land that is saturated or covered by water for some time during the growing season;
- Poorly drained soils; and
- Predominantly, hydrophytic vegetation.

From these features that define a wetland, it is clear that preserving wetland habitat is dependent on maintaining existing soil, vegetation, and hydrologic conditions at a site.

Wetlands are environmentally significant for several reasons, including: water filtration; water storage (water recharge); flood reduction and control; carbon absorption; erosion control; and wildlife habitat (Nova Scotia Museum, 1996). Loss of wetlands has resulted, to some degree, in increased flooding, decreased water quality, desertification, and declines of fish and wildlife (Lynch-Stewart, 1992).

## 2.1 Federal Policy on Wetland Conservation

The *Federal Policy on Wetland Conservation* (Government of Canada, 1991) directs all federal government departments to conserve or sustain wetland functions during delivery of their programs. One of the main considerations in developing the Policy was Canada's membership in the Ramsar Convention on Wetlands (Revised 1987), signed by Canada in 1981. The Ramsar Convention is a global conservation treaty specifically dealing with wetland loss and sustainable use.



Another consideration in developing the Policy was Canada's commitments under the North American Waterfowl Management Plan and the potentially beneficial influences of land use decisions by federal departments and agencies (Lynch-Stewart *et al.*, 1999).

The two key commitments in the federal wetland policy include:

- No net loss of wetland functions on federal lands through mitigation; and
- Enhancement and rehabilitation of wetlands in areas where wetland loss has reached critical levels.

Implementation of strategies contained in the Federal Policy on Wetland Conservation is outlined in the *Implementation Guide for Federal Land Managers* (Lynch-Stewart *et al.*, 1996). The Guide also outlines the hierarchy for mitigation alternatives for meeting the goal of no net loss of wetland function:

- First Avoid impacts;
- Second Minimize unavoidable impacts; and
- Third, and last Compensate for residual impacts that cannot be minimized.

In addition, the Guide provides advice on integrating wetlands into the project planning process, and details on the related process under the *Canadian Environmental Assessment Act 1992*.

## 2.2 Nova Scotia Wetland Policy

The Nova Scotia Wetland Conservation Policy (NSE, 2011) provides direction with respect to conservation, alteration or infilling of wetlands in Nova Scotia. The guiding principle is to achieve no loss in Wetlands of Special Significance and prevent net loss of wetland function in other wetlands. The Department designates infilling or alteration of wetlands as an "activity" under the NS *Environment Act* (Government of Nova Scotia, 1995) and requires approval of such activities prior to the occurrence.

This Policy recognizes that freshwater wetlands and salt marshes are critical ecosystems that provide a suite of environmental and societal services including:

- Maintaining watershed health;
- Maintaining and improving water quality and quantity (surface and groundwater);
- Reducing impacts and damage due to flooding and storm surges;
- Providing habitat for wildlife and other wetland dependent species; and
- Providing opportunities for recreation and education.

Nova Scotia Environment (NSE) recognizes that wetlands are a particularly sensitive habitat and that alteration of wetlands can cause significant adverse environmental effects. The policy guides departmental decision making with respect to wetlands.



# 3.0 METHODOLOGY

# 3.1 Desktop Review

All wetlands noted to occur within the Project footprint from previous reports and databases, were mapped, and information on the location, size and type of these wetlands were extracted. This information has been augmented by information obtained from review of:

- NS Wetlands Atlas
- Aerial photos;
- Topographical maps;
- NSDNR Wet Areas Mapping (WAM); and
- Information collected during field work.

All known wetland locations as well as high potential areas identified during the desk top review were visited in the field to confirm the presence of wetland habitat within the Project area.

# 3.2 Wetland Delineation

Wetland delineations were conducted by trained wetland biologists according to standard methodologies approved by NSE (NSE, 2013). The determination of wetland habitat in the field was based largely on the Corps of Engineers Wetland Delineation Manual (the Manual) (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual (USACE, 2012). Wetland areas within the Project area were identified and mapped using wetland indicators and definitions from the delineation approach approved by NSE (NSE, 2013). This consisted of using representative "paired data points" (i.e., one sample point in the wetland habitat and one sample point in the adjacent upland habitat) as described in the US Army Corps of Engineers Manual.

Wetland data were recorded on Wetland Delineation Data Sheets developed by the Maritimes College of Forestry Technology for the province of Nova Scotia (Appendix A). *Munsell Soil Color Charts* were used to aid in identifying hydric soils in the field. The *Canadian System of Soil Classification* (SCWG, 1998) was used to aid in description of soil characteristics. The *Roland's Flora of Nova Scotia* (Zinc, 1998) and *Flora of New Brunswick* (Hinds, 2000) aided with plant nomenclature and identification. The location of data points and selected wetland boundary points were recorded by Global Positioning System (GPS) using a TRIMBLE Geo-XH GPS receiver capable of sub-metre accuracy. Accuracy of all saved data points were estimated by the receiver to be <1m.

At each sample site, two sample points were chosen; which represent wetland and upland habitat at the wetland boundary. The location of each sample point was recorded with the GPS and marked using pink flagging tape with a unique GPS waypoint name (See Appendix B). The identified vegetation communities were then used to delineate the wetland boundary. Wetland boundary locations were recorded with the GPS and used to prepare individual wetland figures located at the end of this report. Representative site photos of wetland areas, adjacent upland areas, and soil pit exposures were also collected (Appendix C).



# 3.3 Wetland Determination

To be determined a wetland; the following three criteria should be met:

- Majority of dominant vegetation species are wetland associated species;
- Hydrologic conditions exist that result in periods of flooding, ponding, or saturation during the growing season; and
- Hydric soils are present.

## 3.3.1 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). The definition of wetlands includes the phrase "sustains aquatic processes as indicated by the presence of hydric soils, hydrophytic vegetation and biological activities adapted to wet conditions." Hydrophytic vegetation should be the dominant plant type and is characterized by the dominant plant species comprising the plant community (Environmental Laboratory 1987).

Dominant plant species observed at each data point were classified according to their Indicator Status Group (probability of occurrence in wetlands) (Table 3.1), in accordance with the Nova Scotia Wetland Indicator Plant List developed by Sean Blaney at the Atlantic Canada Conservation Data Center (ACCDC, 2011). This classification of plants follows methods developed by the US fish and Wildlife Service (Reed 1988). Further relevant information was reviewed in Roland's *Flora of Nova Scotia* 3<sup>rd</sup> Ed. (Zinc, 1998) and *Flora of New Brunswick* 2nd Ed. (Hinds, 2000).

Plant Species Classification	Abbreviation	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 (assumed upland species)	NL	Does not occur in wetlands in any region.

Table 3.1:	Classification	of Wetland-Associated	<b>Plant Species</b>
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Source: USFWS 1988.

The Prevalence Index (PI) was the main indicator used to assess the dominance of hydrophytic vegetation at each data point location. The PI method assigns weighted values to each dominant species according to their Indicator Status Group. The total cover (% area) of species



in each group is then multiplied by the weighted values and the product is divided by the sum of the unweighted total cover, yielding a value between 1 and 5. If the majority of the dominant vegetation on a site are classified as obligate (OBL), facultative wetland (FACW), or facultative (FAC) then the PI will be equal to or less than 3, and the site is considered to be dominated by hydrophytic vegetation.

## 3.3.2 Soils

A hydric soil is defined as a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA-NRCS, 2007). Indicators of hydric soil include; soil color (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 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.

A soil pit was excavated to a minimum depth of 40 centimetres or refusal at each data point. The soil was then examined for hydric soil indicators. The matrix color and mottle color (if present) of the soil was determined using the Munsell Soil Color Charts.

## 3.3.3 Hydrology

Wetlands, by definition, either periodically or permanently have a water table at, near or above the land's surface or are 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. Primary indicators of wetland hydrology may include, but are not limited to: water marks, drift lines, sediment deposition, drainage patterns, visual observation of saturated soils, and visual observation of inundation. In addition to the primary indicators, there is a variety of secondary wetland hydrology indicators. Secondary indicators include, but are not limited to: oxidized root channels in the upper 12 inches (30.5 centimetres), stunted vegetation, and local soil survey data. When no primary indicators of wetland hydrology are observed at a data point, two or more secondary indicators are required to confirm wetland hydrology.

## 3.3.4 Regional Supplement

There are a number of uncommon situations, often regional in nature that may cause difficulty in interpreting wetland indicators at a site. Some examples include recent disturbance (e.g. vegetation clearing, infilling), past land use (e.g. agricultural tillage or ditch drainage), recent extreme flooding (e.g. sediment deposits, hanging debris), and problematic soils (e.g. fluvial deposits, red parent material). The Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual (USACE, 2012) contains specific guidance for use in these situations. Although there was some minor disturbance noted in some of the wetlands assessed within the Project area, none were considered to be problematic in terms of interpreting wetland indicators.



# 3.4 Functional Assessment Method

Environment Canada and the US Army Corps of Engineers both describe wetland ecological functions as the natural processes (physical, chemical, biological) that a wetland provides that is independent from the benefits these processes provide to humans (Hanson et al., 2008; USACE, 1999). This is differentiated from wetland values which reflect the ecosystem services wetlands provide to humans and the associated societal value. These "values" are a product of the ecological function a wetland may provide, but may change depending on individual or community preference (Hanson et al., 2008).

NSE has developed the Nova Scotia Wetland Evaluation Technique (NovaWET) which is designed to assess the condition and functions of wetlands specifically in Nova Scotia (NSE 2014). This technique has been adapted using aspects of various methods successfully employed in other regions, in particular the US. This method uses a combination of landscape level information and site-specific characteristics of the wetland to determine the most significant wetland functions.

NovaWET consists of 11 major sections associated with key wetland functions. Each section contains a number of questions that pertain to that function which provide details that enable the assessor to determine to what degree the wetland provides significant functions (SF). This method identifies a total of 29 significant functions a wetland may provide depending on the specific characteristics of the wetland and surrounding landscape. The 11 major sections and associated 29 significant functions are as follows:

- Section 1 Watershed Characteristics
  - o SF1 Watershed condition
  - SF2 Proportion of wetland area in watershed & opportunity for floodwater detention
- Section 2 Wetland Characteristics
  - SF3 General wetland condition/integrity
- Section 3 Adjacent Land Condition and Integrity
  - SF4 Overall condition and integrity of adjacent land to wetland
- Section 4 Documented Important Features
  - SF5 Wetland is a WSS
  - SF6 Wetland support commercial/recreational fish/shellfish
  - o SF7 Wetland contains/ is utilized by species of concern
  - SF8 Wetland has conservation/compensation agreement/activity
  - o SF9 Wetland is calcareous fen, black ash or cedar swamp
  - SF10 Wetland is situated within Drinking Water Protected Area (designated watershed/wellfield)



- SF11 –Wetland is situated within a floodplain and upstream or within a populated area
- o SF12 Wetland is situated within Fed/Prov/Municipal area of interest
- Section 5 Hydrologic Condition and Integrity
  - SF13 Wetland hydrologic condition
  - o SF14 Wetland importance for maintaining stream flow
  - SF15 Wetland ability to detain surface water
- Section 6 Water Quality
  - SF16 Wetland improves water quality
  - SF17 Evidence of excess nutrient loading/contamination
  - SF18 Wetland contributes to water quality in downstream resources
- Section 7 Groundwater Interactions
  - SF19 Wetland likely a recharge site
  - o SF20 Wetland likely a discharge site
- Section 8 Shoreline Stabilization and Integrity
  - SF21 Wetland ability to stabilize shoreline
- Section 9 Plant Community
  - SF22 Plant community unique or rare regionally or provincially
  - o SF23 Wetland contains a diversity of plant communities
  - SF24 Overall integrity of the wetland's plant community
  - SF25 Presence of rare or endangered plant species
- Section 10 Fish and Wildlife Habitat and Integrity
  - SF26 Wetland supports fish/fish habitat
  - o SF27 Presence of rare or endangered fish/wildlife
  - o SF28 Wetland's overall fish and wildlife habitat quality
- Section 11 Community Use/Value
  - SF29 Wetland's community use/value

NovaWET goes further to identify critical wetland functions (SF rating highlighted in red on the data sheets) that are often unique or rare or associated with high risk to the watershed if lost and as such minimizing or compensating for this loss may be difficult. In many cases the rating of significant functions determines whether the wetland provides a critical function or if this function is just merely present. For example a wetland is considered to provide a critical function as fish and wildlife habitat if that significant function is assessed to be of high quality.



Alternatively, if habitat quality is determined to be low or moderate, the wetland is still considered to offer that function, however it is not considered critical. Other significant functions only need to be present in order to be considered critical for example the presence of a rare or endangered species constitutes a critical function for that wetland. NSE should be consulted should a wetland be determined to provide a critical wetland function prior to Project implementation.

Functional Assessments of all wetlands encountered within the Project area were conducted using the NovaWET method. Appendix D provides the completed NovaWET evaluation forms for the 22 wetlands assessed within the Project area.

# 4.0 RESULTS

Preliminary field surveys were conducted between August 31<sup>st</sup> and September 8th, 2010 by AMEC Wetland Biologists, Scott Burley (M.Sc.) and Marion Sensen (Ph.D.). During this initial round of surveys, wetland habitat occurring within the Project Area was identified in the field, approximate boundaries were determined and habitat assessments were conducted. The purpose of this round of surveys was to provide an overview of the amount and type of wetland habitat present on the Project Site to aid in planning and design of specific Project components.

A second round of wetland surveys was conducted in July of 2011 by Pinchin LeBlanc Wetland Biologist, Theo Popma. During this second survey, wetland delineations were conducted following standardized methodologies described above (Sections 3.2 and 3.3).

A third and final round of field surveys was conducted by Scott Burley and Marion Sensen between August 18<sup>th</sup> and August 22<sup>nd</sup>, 2014. The weather during these surveys was a mix of sun and cloud with rain on the 18<sup>th</sup>. Wetland delineations were verified in the field and additional field data was recorded for each wetland to be used during the functional assessments.

A total of 22 wetlands were identified within the Project footprint and/or determined to be hydrologically connected downstream. The majority of wetland habitat identified consists of open bogs and riparian fens which range in size from approximately 16.5 ha to <0.5 ha. Other wetland types identified include swamp and marsh as well as complexes including a combination of a number of these wetland types. The total area of wetland habitat identified within the Project Study Area is approximately 57 ha.

Individual wetlands identified during the initial 2010 surveys were given a unique wetland indentifying number. These wetland numbers were recorded on all data sheets completed during the 2010 and 2011 surveys. Over the course of the next two field survey events, wetland boundaries were refined and verified and as such some wetlands identified as individual wetlands in 2010 were subsequently found to be connected, forming larger wetland complexes. In these instances data collected for each wetland component were combined and the wetland complex was assigned a new wetland identifying number that fits chronologically with the actual number of wetlands occurring within the Project Area. Table 4.1 below presents the updated



wetland numbering system along with the corresponding initial numbering system that is reflected in the field data sheets. Note that the functional assessment forms in Appendix D reflect the updated numbering system.

Updated Wetland # for Current	Initial Wetland # Reflected in
Report	Field Data Sheets
WL1	WL1, WL17, WL18
WL2	WL2
WL3	WL3
WL4	WL4
WL5	WL5
WL6	WL6
WL7	WL7
WL8	WL8, WL9
WL9	WL10
WL10	WL11
WL11	WL12
WL12	WL13
WL13	WL14
WL14	WL15
WL15	WL16
WL16	WL19, WL20
WL17	WL21
WL18	WL22
WL19	WL23
WL20	WL24
WL21	WL25
WL22	WL26

Table 4.1: Updated Wetland	I Identification Number

Twelve (12) of the 22 wetlands surveyed were found to occur directly within the proposed footprint of the pit, fill areas and plant location (WL1, WL3 – WL7 and WL11-WL15 inclusive in Table 4.2). Four (4) wetlands surveyed occur within the proposed footprint of the access road (WL12- WL20 inclusive). Six (6) wetlands surveyed (WL8-WL10, WL16, WL21 and WL2) are situated outside the proposed footprint of all Project components however these wetlands may be indirectly impacted by the project and as such were included in the surveys. Complete wetland delineation, habitat assessments and functional assessments were conducted for all 22 wetlands surveyed.

Table 4.2 provides a summary of all wetlands assessed along with their general characteristics and corresponding coordinates (UTM Zone 20, NAD 83).

		I able	4.2: Wetland Locations	and Cr	naracterizatio	n	
Wetland	Coord	dinates	Type	Size	Landscape	Water Flow	Landform
#	Easting	Northing	Туре	(Ha)	Position	Path	

## 10 Wetley II and an an IOI and the sector



1	645437	5022529	Bog/Swamp Complex	16.5	Lotic Stream	Throughflow	Basin
2	645430	5024058	Fen/Swamp/Marsh Complex	6	Lotic Pond	Inflow	Basin
3	645076	5024059	Riparian Fen	0.5	Lotic Stream	Throughflow	Slope
4	645076	5024059	Bog	0.2	Terrene	Isolated	Basin
5	644431	5024129	Riparian Fen	0.5	Lotic Stream	Throughflow	Slope
6	644737	5024077	Bog	0.3	Terrene	Outflow	Basin
7	644845	5024349	Riparian Treed Swamp	0.5	Lotic Stream	Throughflow	Slope
8	644009	5023134	Swamp/Bog/Fen Complex	10.3	Lotic Stream	Throughflow	Flat
9	643617	5023397	Bog	4.6	Terrene	Isolated	Flat
10	643857	5023694	Riparian Treed Swamp	0.1	Lotic Stream	Throughflow	Slope
11	644458	5023456	Bog	9.0	Terrene	Isolated	Flat
12	644737	5024077	Bog/Fen Complex	0.3	Terrene	Outflow	Basin
13	644860	5023362	Treed Swamp	0.6	Terrene	Isolated	Slope
14	645506	5023190	Fen/Bog Complex	6.2	Lotic Stream	Throughflow	Slope
15	645265	5023544	Riparian Fen	0.07	Lotic Stream	Throughflow	Slope
16	645920	5022505	Bog	0.45	Terrene	Isolated	Basin
17	644193	5021827	Bog/Swamp Complex	0.74	Terrene	Outflow	Basin
18	644396	5022050	Bog	0.07	Terrene	Isolated	Basin
19	644440	5022148	Bog	0.04	Terrene	Isolated	Basin
20	644447	5022225	Bog	0.15	Terrene	Isolated	Basin
21	645820	5023684	Fen	0.19	Lotic Stream	Inflow	Slope
22	645630	5023728	Riparian Fen	0.1	Lotic Stream	Throughflow	Slope
	Tota	al Wetland	Area (ha)	57.3			

# 4.1 Wetland Delineation

The following descriptions of sample test points are summarized from field data sheets presented in Appendix A. Site photos are included in Appendix C. The following description refers to GPS points in Appendix B and figures located at the end of this report. In addition to the sample test pit locations summarized below, additional supplemental test pits were completed and summarized on Appendix E.

## 4.1.1 Wetland 1 (WL1)

WL1 (Figure 3) is a fen/bog/swamp wetland complex approximately 16.5 ha in total area located in the southeast end of the Project Area (Figure 2). This wetland was originally identified as



three separate wetlands (WL1, WL17 and WL18) however further field investigations identified that these areas are in fact connected to form one large complex. One paired sampling site was recorded (labeled as WL17 on data sheets in Appendix A). The wetland was determined to contain normal site conditions however the vegetation along the southern boundary is slightly influenced by maintenance activities within the power transmission line corridor. The upland area around surrounding the wetland consists of a mix of shrub barren and coniferous forest.

The dominant vegetation at Data Point "WL1-WP1" in the overstory is Black Spruce (*Picea mariana*) with Mountain Holy (*Nemopanthes muronata*) and Wild Raisin (*Vibirnum nudum*) dominating the shrub layer. The understory is dominated by a thick layer of sphagnum moss with Leather Leaf (*Chamaedaphne calyculata*) and Common Juniper (*Juniperus communis*) as the dominant understory (Photo 1; Appendix C). The PI was observed to be 2.4. The soil was determined to be a Balck Histic (A3) as there was 20 cm of organic matter accumulated over a loamy sand layer with color of 10YR 3/2 (Photo 2; Appendix C). Soil saturation was found to be at 3cm (A3) while no surface water or water table was detected.

The dominant vegetation at Data Point "WL1-UP1' in the overstory is Balsam Fir (*Abies balsamea*), Red Maple (*Acer rubrum*) and Black Spruce. Mountain Holy was found to be dominant in the understorey while Lambkill (*Kalmia angustifolia*) and Labrador Tea (*Ledum groenlandicum*) dominated the understory (Photo 3; Appendix C). The PI was observed to be 2.7. The substrate was found to consist of a 14 cm organic layer over rock (Photo 4, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Changes in topographic relief and vegetation were the main criteria utilized in delineating the wetland boundary. Along the northern, eastern and southern boundaries of the wetland there is a noticeable transition in elevation (~15% slope) and vegetation.

## 4.1.2 Wetland 2 (WL2)

WL2 (Figure 4) is a Marsh/fen/Swamp wetland complex approximately 6.0 ha in total area located in the northwest end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions however the vegetation in southern end of the site has been disturbed and is now an early successional forest. The upland area surrounding the south, east and west sides of the wetland are composed of a coniferous forest while the northern side is bordered by a cobble/boulder/sand beach.

The dominant vegetation at Data Point "WL2-WP1" in the overstory and subcanopy is Balsam Fir along with Lambkill and Mountain Holy dominating the shrub layer. The understory is dominated by a thick layer of sphagnum moss with Three-seeded Sedge (*Carex trisperma*), Creeping Snowberry (*Gaultheria hispidula*) and Three-leaved False Solomon's Seal (*Mainanthemum trifolium*) as the dominant understory (Photo 5; Appendix C). The PI was



observed to be 2.6. The soil was determined to be a histosol (A1) as there was more than 40 cm of organic matter accumulated (Photo 6; Appendix C). Although surface water or the water table was not present at the sample point, soil saturation was at 15cm (A3) and a strong Hydrogen Sulfide ordor was detected (C1).

Balsam fir and White Birch (*Betula papyrifera*) is the dominant vegetation at Data Point "WL2-UP1', in the overstory while Balsam Fir, Lambkill and Mountain Ash (*Sorbus americana*) is also dominant in the subcanopy. Bunchberry (*Cornus canadensis*) and Wild Sarsaparilla (*Aralia* nudicaulis) were found to dominate the understory (Photo 7; Appendix C). The PI was observed to be 3.0 although all dominant species were found to have an indicator status of FAC. The substrate was found to consist of a 10 cm duff layer over a 7cm silt loam Ae layer (2.5YR 5/1) (Photo 8, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Delineation of WL2 relied primarily on an abrupt change in elevation and shift in vegetation composition. The wetland is located in a basin where the land slopes inward essentially on all sides. A small stream provides an inlet to the wetland on the southwest end.

#### 4.1.3 Wetland 3 (WL3)

WL3 (Figure 5) is a riparian fen wetland approximately 0.5 ha in total area located in the northern end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions. The upland area surrounding the entire wetland is composed of a coniferous forest.

The dominant vegetation at Data Point "WL3-WP1" in the understory is Black Spruce and Larch (*Larix laracina*). The ground layer is dominated by a thick layer of sphagnum moss with Swamp-Pink (*Arethusa bulbosa*) and White Beak-rush (*Rhynchospora alba*) as the dominant species (Photo 9; Appendix C). The PI was observed to be 2.2. The soil was determined to be a histosol (A1) as there was more than 40 cm of organic matter accumulated (Photo 10; Appendix C). Although surface water was not present at the sample point, soil saturation was at surface (A3) and the water table was to 15 cm from surface (A2).

White Spruce (*Picea glauca*) is the dominant species at Data Point "WL3-UP1" in the overstory while Black Holly (*Ilex verticillata*) and Balsam Fir dominate the understorey. Wild lily-of-the-valley (*Mainanthemum canadensis*), Star Flower (*Triantalis borealis*) and Mountain Cranberry (*Vaccinium vitis-idea*) was found to dominate the understory (Photo 11; Appendix C). The PI was observed to be 2.8 although all but one species recorded has an indicator status of FAC. The substrate was found to consist of a 15 cm duff layer over a sand silt Ae horizon (5Y 5/1) (Photo 12, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

WL3 is located in a steep sided basin where boundary delineation was determined primarily by the abrupt change in elevation and associated shift in plant species composition.



## 4.1.4 Wetland 4 (WL4)

WL4 (Figure 6) is a bog wetland approximately 0.2 ha in total area located in the northern end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions. The upland area along the perimeter of this wetland consists of coniferous forest.

The dominant vegetation at Data Point "WL4-WP1" is Black Spruce in the canopy and subcanopy while Three-leaved False Solomon's Seal and Three-seeded Sedge are the dominant species in the understory (Photo 13; Appendix C). The PI was observed to be 1.9. The soil was determined to be a histosol (A1) as there was more than 40 cm of organic matter accumulated (Photo 14; Appendix C). Surface water was not found to be present at the sample point however soil saturation was at 5 cm (A3) and there was a strong Hydrogen Sulfide odor detected (C1).

Black Spruce is the dominant species at Data Point "WL4-UP1" in the overstory. Mountain Holly and Black Spruce dominated the understorey while Three-seeded Sedge and Lambkill were found to dominate the understory (Photo 15; Appendix C). The PI was observed to be 2.3. The substrate was found to consist of a 15 cm duff layer over a 9 cm silt Ae layer (2.5YR 7/1) (Photo 16, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

WL4 is located in a steep sided basin where boundary delineation was determined primarily by the abrupt change in elevation and associated shift in plant species composition.

## 4.1.5 Wetland 5 (WL5)

WL5 (Figure 7) is a riparian fen wetland approximately 0.5 ha in total area located in the southern end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions. The upland area along the south, east and north boundaries is composed of a confierous forest while a cobble/boulder/sand beach is located at the west boundary.

The dominant vegetation at Data Point "WL5-WP1" is located in the understorey including Large Cranberry (*Vaccinium macrocarpon*), Tussock Cotton-grass (*Eriophorum vaginatum*) and Bog Aster (*Oclemena nemoralis*) (Photo 17; Appendix C). The PI was observed to be 2.2. The soil was determined to be a histosol (A1) as there was more than 40 cm of organic matter accumulated (Photo 18; Appendix C). Surface water was found to be present at the sample point (A1), soil saturation was at surface (A3) and the water table was to 5 cm from surface (A2).

Balsam Fir and White Spruce are the dominant species at Data Point "WL5-UP1" in the canopy. Speckled Alder (*Alnus incana*) is dominant in the understorey while Bunchberry and Spinulous Woodfern (*Dryopteris carthusiana*) was found to dominate the understory (Photo 19; Appendix C). The PI was observed to be 3.1. The substrate was found to consist of a 2 cm duff layer over a 35 cm sand loam B horizon (7.5YR 4/4) (Photo 20, Appendix C). The soil appeared to



be well drained with no presence of saturation. The lack of hydric vegetation, hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north and south sides were determined by an abrupt change in elevation. The boundary along the eastern end of this wetland consists of a more gradual change in elevation which creates a wider transition from wetland to upland in this area. Wetland boundary in this area was determined by a shift in dominance of sphagnum moss in the wetland to feather moss in the upland. Wetland boundary in the west end was determined by the beach.

## 4.1.6 Wetland 6 (WL6)

WL6 (Figure 8) is a bog wetland approximately 0.3 ha in total area located in the northern end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions. The upland area surrounding this wetland consists of coniferous forest.

The dominant vegetation at Data Point "WL6-WP1" is Black Spruce and Balsam Fir in the canopy with Black Spruce, Huckleberry (*Gaylussacia baccata*) and Sweet Gale (*Myrica gale*) dominating the understorey. Three-leaved False Solomon's Seal and Tussock Cotton-grass are the dominant species in the understory (Photo 17; Appendix C). The PI was observed to be 2.1. The soil was determined to be a histosol (A1) as there was 30 cm of organic matter overtop of bedrock (Photo 18; Appendix C). Although no surface water was found at the sample point, soil saturation was at surface (A3) and the water table was at 20 cm from surface (A2).

Balsam Fir is the dominant species at Data Point "WL6-UP1', in the canopy and subcanopy while Wild Lily-of-the-valley, Mountain Cranberry, Twin Flower (*Linnaea borealis*) and Partridge Berry (*Mitchella repens*) dominate the understory (Photo 19; Appendix C). The PI was observed to be 3.0. The substrate was found to consist of a 5 cm duff layer over a sandy loam Ae layer (7.5YR 6/1) over a clay loam Bf horizon (7.5YR 4/6) (Photo 20, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north and south sides were determined by an abrupt change in elevation. The boundaries along the eastern and western end of this wetland consist of a more gradual change in elevation which creates a wider transition from wetland to upland in this area. Wetland boundary in this area was determined by a shift in dominance of sphagnum moss in the wetland to feather moss in the upland.

## 4.1.7 Wetland 7 (WL7)

WL7 (Figure 9) is a Riparian treed swamp wetland approximately 0.5 ha in total area located at the northern end of the Project area (Figure 2). One paired sampling site was recorded. The wetland was determined to contain normal site conditions. The upland area along the western



boundary is a rock cliff leading the ocean while coniferous forest surrounds the remainder of the wetland.

The dominant vegetation at Data Point "WL7-WP1" is Black Spruce in the canopy and (Photo 21; Appendix C). The PI was observed to be 2.0. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 22; Appendix C). Surface water was not found to be present however a strong Hydrogen Sulfide odor was detected (C1) and soil saturation was at 5 cm (A3).

White Spruce is the dominant species at Data Point "WL7-UP1" in the canopy while Lambkill, White Spruce and Green Alder (*Alnus crispa*) is the dominant species in the subcanopy while Bunchberry dominates the understory (Photo 23; Appendix C). The PI was observed to be 3.1. The substrate was found to consist of a 15 cm duff layer over rock (Photo 24, Appendix C). The soil appeared to be well drained with no presence of saturation. The lack of all three wetland indicators identifies this site as upland.

Wetland boundaries of WL7 were determined by an abrupt change in elevation and vegetation composition.

## 4.1.8 Wetland 8 (WL8)

WL8 (Figure 10) is a riparian swamp/bog/fen wetland complex approximately 10.3 ha in total area located in the western side of the Project area (Figure 2). One paired sampling site was recorded. This wetland was originally identified as two separate wetlands (WL8 and WL9 on data sheets on Appendix A) however further field investigations identified that these areas are in fact connected to form one large complex. The wetland was determined to contain normal site conditions. The upland habitat surrounding this wetland consists of a mix of barren vegetation, coniferous forest and mixed forest.

The dominant vegetation at Data Point "WL8-WP1" in the canopy is Balsam Fir and Red Maple. The subcanopy is dominated by Cinnamon Fern while Three-seeded Sedge dominates the understorey (Photo 25; Appendix C). The PI was observed to be 1.5. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 26; Appendix C). Surface water was not found to be present however a strong Hydrogen Sulfide odor was detected (C1) and soil saturation was at 5 cm (A3).

The dominant species at Data Point "WL8-UP1" in the canopy is Balsam Fir and Red Maple. Dominant species in the subcanopy include Mountain Holy, Wild Raisin and Lambkill while Wild Sarsaparilla and Star Flower dominate the understory (Photo 27; Appendix C). The PI was observed to be 2.9. The substrate was found to consist of a 20 cm duff layer over 10 cm siltloam Ae layer (2.5YR 5/1), over rock (Photo 28, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.



Wetland boundaries along the bog portion of WL8 were determined by an abrupt change in elevation and associated shift in dominant plant species. The boundary of the riparian swamp portion of this wetland consists of a more gradual shift in elevation and dominant plant species. Wetland boundary in this area was determined by a shift in dominance of sphagnum moss in the wetland to feather moss in the upland.

## 4.1.9 Wetland 9 (WL9)

WL9 (Figure 11) is an open bog wetland approximately 4.6 ha in total area located along the western property boundary of the Project area (Figure 2). One paired sampling site was recorded (labeled as WL10 on data sheets in Appendix A). The wetland was determined to contain normal site conditions. The upland habitat surrounding this wetland consists of a mix of barren vegetation and coniferous forest.

The dominant vegetation at Data Point "WL9-WP1" in the subcanopy is Black Spruce and Huckleberry while Common Juniper, Bog Laurel (*Kalmia polifolia*), Pitcher Plant (*Sarracenia purperea*) and Deer Grass (*Trichophorum caespitosus*) dominates the understory (Photo 29; Appendix C). The PI was observed to be 2.5. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 30; Appendix C). Surface water was not found to be present however a strong water stained leaves (B9), sparsely vegetated concave surface (B8) and thin muck surface were all noted (C7).

The dominant species at Data Point "WL9-UP1" in the canopy is Black Spruce. Dominate species in the subcanopy include Black Spruce and Huckleberry while Lambkill and Star Flower dominate the understory (Photo 31; Appendix C). The PI was observed to be 2.7. The substrate was found to consist of a 20 cm duff layer over rock (Photo 32, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

## 4.1.10 Wetland 10 (WL10)

WL10 (Figure 12) is a small riparian treed swamp located along an unnamed stream at the western side of the Project Area. The upland habitat surrounding this wetland consists primarily of coniferous forest. One paired sampling site was recorded (labeled as WL11 on data sheets in Appendix A). The wetland was determined to contain normal site conditions.

The dominant vegetation at Data Point "WL10-WP1" in the canopy is Balsam Fir. Cinnamon Fern is the dominant species in the subcanopy while Three-seeded Sedge dominates the understory (Photo 33; Appendix C). The PI was observed to be 2.4. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 34; Appendix C). Surface water was found to be present (A1) and soil saturation was at 5 cm (A3).

The dominant species at Data Point "WL10-UP1" in the canopy is Black Spruce and Balsam Fir. Dominant species in the subcanopy include Balsam Fir and Mountain Ash while Wild



Sarsaparilla and Star Flower dominate the understory (Photo 35; Appendix C). The PI was observed to be 2.9. The substrate was found to consist of a 10 cm duff layer over rock (Photo 36, Appendix C). The soil appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

## 4.1.11 Wetland 11 (WL11)

WL11 (Figure 13) is a large open bog located in the center of the Project Area on the east side of Fogherty Lake. The wetland is bordered on three sides by a shrub barren while Fogherty Lake borders the western boundary. One paired sampling site was recorded (labeled as WL12 on data sheets in Appendix A). The wetland was determined to contain normal site conditions.

The dominant vegetation at Data Point "WL11-WP1" is Larch in the canopy; Rhodora (*Rhododendron canadensis*), Mountain Holy and Huckleberry in the subcanopy; and Labrador Tea, Pitcher Plant and Three-leaved False Solomon's Seal in the understory (Photo 37; Appendix C). The PI was observed to be 2.6. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 38; Appendix C). Although surface water was not detected in the plot, soil saturation was at surface 5 cm (A3).

Larch, Red Maple and Black Spruce are the dominant species in the canopy at Data Point "WL11-UP1". Huckleberry dominates the subcanopy while Bunchberry and Black Crowberry (*Empetrum nigrum*) dominated the understory (Photo 39; Appendix C). The PI was observed to be 3.0. The substrate was found to consist of a 11 cm duff layer over rock (Photo 40, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the south, and north sides of WL11 were determined by an abrupt change in elevation. The boundary along the eastern and western ends of this wetland consists of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.12 Wetland 12 (WL12)

WL12 (Figure 14) is an open bog/fen wetland approximately 0.3 ha in total area located in the central portion of the Project Area (Figure 2). One paired sampling site was recorded (labeled as WL13 on data sheets in Appendix A). The wetland was determined to contain normal site conditions although a skidder trail was noted to pass through the wetland. Upland habitat surrounding this wetland is primarily shrub barren with patches of coniferous forest.

The dominant vegetation at Data Point "WL12-WP1" cinnamon Fern in the subcanopy and Three-seeded Sedge in the understory (Photo 41; Appendix C). The PI was observed to be 2.7. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated



organic matter (Photo 42; Appendix C). Surface water was not found to be present in the plot however the water table was at 10cm (A2), while soil saturation was at surface (A3).

The dominant species at Data Point "WL12-UP1" is Huckleberry in the subcanopy (Photo 43; Appendix C). The PI was observed to be 2.7. The substrate was found to consist of a 5 cm duff layer over rock (Photo 44, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the south, and north sides of WL12 were determined by an abrupt change in elevation. The boundary along the eastern and western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.13 Wetland 13 (WL13)

WL13 (Figure 15) is a treed swamp wetland approximately 0.6 ha in total area located in a depression in the landscape in the central portion of the Project Area (Figure 2). One paired sampling site was recorded (labeled as WL14 on data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of shrub barren with patches of coniferous forest.

The dominant vegetation at Data Point "WL13-WP1" is Black Spruce and Red maple in the canopy and Mountain Holy, Wild Raisin and Cinnamon Fern in the subcanopy. Three-seeded Sedge and Wild Lily-of-the-valley dominate the understorey (Photo 45; Appendix C). The PI was observed to be 1.9. The soil was determined to be a histic epipedon (A2) as there was 20 cm of accumulated organic matter over a silt layer with a colour of 5YR 2.5/1 (Photo 46; Appendix C). Soil saturation was at surface (A3) and a strong Hydrogen Sulfide odor was detected (C1).

Black Spruce was the dominant species at Data Point "WL13-UP1' in the canopy while Green Alder, Huckleberry, Mountain Holy and Black Spruce dominate the subcanopy. Bunch Berry and Black Crowberry dominate the understory (Photo 47; Appendix C). The PI was observed to be 2.8. The substrate was found to consist of a 5 cm duff layer over rock (Photo 48, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along all sides of WL13 were determined by an abrupt change in elevation.

## 4.1.14 Wetland 14 (WL14)

WL14 (Figure 16) is a fen/bog wetland complex approximately 6.2 ha in total area located along an unnamed stream in the eastern side of the Project Area (Figure 2). One paired sampling



site was recorded (labeled as WL15 on data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest intermixed with shrub barren.

The dominant vegetation at Data Point "WL14-WP1" is Black Spruce and Balsam Fir in the canopy and Sweet Gale and Huckleberry in the subcanopy. Three-leaved False Solomon's Seal dominates the understorey (Photo 49; Appendix C). The PI was observed to be 2.6. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 50; Appendix C). Surface water was present (A1), the water table was at 5 cm (A2) and soil saturation was at surface (A3).

Black Spruce was the dominant species at Data Point "WL14-UP1' in the canopy while Black Spruce, Huckleberry and Lambkill dominate the subcanopy. Lambkill and Black Crowberry dominate the understory (Photo 51; Appendix C). The PI was observed to be 2.8. The substrate was found to consist of an 8 cm duff layer over rock (Photo 52, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the south, and north sides of WL14 were determined by an abrupt change in elevation. The boundary along the eastern and western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.15 Wetland 15 (WL15)

WL15 (Figure 17) is a riparian fen wetland approximately 0.07 ha in total area located along an unnamed stream in the center of the Project Area (Figure 2). One paired sampling site was recorded (labeled as WL16 on data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest intermixed with shrub barren.

The dominant species at Data Point "WL15-WP1" is Black Spruce in the canopy and Sweet Gale, Cinnamon Fern and Mountain Holy in the subcanopy. Three-seeded sedge dominates the understorey (Photo 53; Appendix C). The PI was observed to be 2.7. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 54; Appendix C). Surface water was not present however the water table was at 10 cm (A2) and soil saturation was at surface (A3).

Black Spruce and Balsam Fir were the dominant species at Data Point "WL15-UP1' in the canopy while Lambkill is dominant in the subcanopy. Late Low-bush Blueberry (*Vaccinium angustifolium*), Bunchberry and Blackberry (*Rubus allegheniensis*) dominate the understory (Photo 55; Appendix C). The PI was observed to be 3.0. The substrate was found to consist of a 10 cm duff layer over rock (Photo 56, Appendix C). The area appeared to be well drained with



no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along all sides of WL15 were determined by an abrupt change in elevation.

#### 4.1.16 Wetland 16 (WL16)

WL16 (Figure 18) is a bog wetland approximately 0.45 ha in total area located along an unnamed stream in the center of the Project Area (Figure 2). This wetland was originally identified as two separate wetlands (WL19 and WL20 on data sheets on Appendix A) however further field investigations identified that these areas are in fact connected to form one contiguous wetland. One paired sampling site was recorded. The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.

The dominant species at Data Point "WL16-WP1" is Black Spruce and Larch in the canopy and Lambkill and Balsam Fir in the subcanopy. Three-seeded sedge and Three-leaved False Solomon's Seal dominates the understorey (Photo 57; Appendix C). The PI was observed to be 2.6. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 58; Appendix C). Surface water was not present however soil saturation was at 5 cm (A3) and a strong Hydrogen Sulfide odor was detected.

Black Spruce, Red Maple and Balsam Fir were the dominant species at Data Point "WL16-UP1' in the canopy while Balsam Fir is dominant in the subcanopy. Wild Lily-of-the-valley is dominant in the understory (Photo 59; Appendix C). The PI was observed to be 2.9. The substrate was found to consist of a 16 cm duff layer over a 3 cm sand Ae horizon with a colour of 10YR 5/2, over rock (Photo 60, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north and south sides of WL16 were determined by an abrupt change in elevation. The boundary along the eastern and western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.17 Wetland 17 (WL17)

WL17 (Figure 19) is a bog/Swamp wetland complex approximately 0.74 ha in total area located along the proposed access road to the Site (Figure 2). One paired sampling site was recorded (labeled as WL21 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.

The dominant species at Data Point "WL17-WP1" is Black Spruce in the canopy. Leatherleaf, Rhodora, Balsam Fir and Black Spruce dominate the subcanopy. White-beaked Rush and



Three-leaved False Solomon's Seal dominate the understorey (Photo 61; Appendix C). The PI was observed to be 1.6. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 62; Appendix C). Surface water was not present however soil saturation was at surface (A3) and the water table was at 10cm (A2).

Black Spruce and Balsam Fir were the dominant species at Data Point "WL17-UP1' in the canopy and subcanopy. Lambkill is dominant in the understory (Photo 63; Appendix C). The PI was observed to be 2.6. The substrate was found to consist of a 10 cm duff layer over a 6 cm silt loam Ae horizon with a colour of 10YR 6/2, overtop a 5 cm clay loam B horizon with a colour of 7.5YR 5/4, over rock (Photo 64, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north and south sides of WL17 were determined by an abrupt change in elevation. The boundary along the eastern and western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.18 Wetland 18 (WL18)

WL18 (Figure 20) is a bog wetland approximately 0.07 ha in total area located along the proposed access road to the Site (Figure 2). One paired sampling site was recorded (labeled as WL22 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.

The dominant species at Data Point "WL18-WP1" is Black Spruce in the canopy and subcanopy. Three-leaved False Solomon's Seal, Bunchberry, Three-seeded Sedge and Cinnamon Fern dominate the understorey (Photo 65; Appendix C). The PI was calculated to be 2.3. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 66; Appendix C). Surface water was not present however soil saturation was at surface (A3) and the water table was at 10cm (A2).

Black Spruce was the dominant species at Data Point "WL18-UP1" in the canopy while Lambkill and Huckleberry dominate the subcanopy. Bunchberry is dominant in the understory (Photo 67; Appendix C). The PI was observed to be 2.9. The substrate was found to consist of a 10 cm duff layer over a 5 cm silt loam Ae horizon with a colour of 10YR 5/2, over rock (Photo 68, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north, east and south sides of WL18 were determined by an abrupt change in elevation. The boundary along the western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.



## 4.1.19 Wetland 19 (WL19)

WL19 (Figure 21) is a bog wetland approximately 0.04 ha in total area located along the proposed access road to the Site (Figure 2). One paired sampling site was recorded (labeled as WL23 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.

The dominant species at Data Point "WL19-WP1" is Larch in the canopy. The dominant species in the subcanopy include Huckleberry, Mountain Holy and Baltic Rush (*Juncus arcticus*). Deer Grass, White-beaked Rush and Pitcher Plant dominate the understorey (Photo 69; Appendix C). The PI was calculated to be 1.3. The soil was determined to be a histosol (A1) as there was more than 40 cm of accumulated organic matter (Photo 70; Appendix C). Surface water was not present however soil saturation was at surface (A3) and the water table was at 10cm (A2).

Huckleberry was the dominant species at Data Point "WL19-UP1" in the subcanopy while Lambkill and Black Crowberry is dominant in the understory (Photo 71; Appendix C). The PI was observed to be 3.0. The substrate was found to consist of a 5 cm duff layer over rock (Photo 72, Appendix C). The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north, east and south sides of WL19 were determined by an abrupt change in elevation. The boundary along the western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.20 Wetland 20 (WL20)

WL20 (Figure 22) is a bog wetland approximately 0.15 ha in total area located along the proposed access road to the Site (Figure 2). One paired sampling site was recorded (labeled as WL24 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.

The dominant species at Data Point "WL20-WP1" is Larch in the canopy. The dominant species in the subcanopy include Huckleberry, Mountain Holy, Sweet Gale and Wild Raisin. Deer Grass and Pitcher Plant dominate the understorey (Photo 73; Appendix C). The PI was calculated to be 2.0. The soil was determined to be a Black Histic (A3) as there was 20 cm of accumulated organic matter accumulated over a 10 cm loam sand horizon with a colour of 10YR 5/2 (Photo 74; Appendix C). Surface water was not present however soil saturation was at surface (A3).

Larch and Black Spruce were the dominant species at Data Point "WL20-UP1" in the canopy. Huckleberry, Wild Raisin and Rhodora were dominants in the subcanopy while Late Low-bush Blueberry is dominant in the understory (Photo 75; Appendix C). The PI was observed to be 3.0. The substrate was found to consist of a 10 cm duff layer over rock (Photo 76, Appendix C).



The area appeared to be well drained with no presence of saturation. Although the sample point has hydrophytic vegetation, the lack of hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the north and south sides of WL20 were determined by an abrupt change in elevation. The boundary along the western ends of this wetland consisted of a more gradual change in elevation however a distinct change in dominant vegetation and soil characteristics determined the boundary.

## 4.1.21 Wetland 21 (WL21)

WL21 (Figure 23) is a Fen wetland approximately 0.19 ha in total area located close the coast at the northeast end of the Project Area (Figure 2). One paired sampling site was recorded (labeled as WL25 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest to the south and cobble/gravel/sand beach to the north.

Balsam Fir, White Spruce and Red Maple are the dominant species at Data Point "WL21-WP1" in the canopy. The dominant species in the subcanopy include Black Choke Berry and Lambkill. Bunchberry, Tawny Cotton-grass (*Eriophorum virgincum*), Bog Aster, and Soft Rush (*Juncus effuses*) dominate the understorey (Photo 77; Appendix C). The PI was calculated to be 2.5. The soil was determined to be a Histosol (A1) as there was 30 cm of accumulated organic matter accumulated over bedrock (Photo 78; Appendix C). Surface water was not present however soil saturation was at 5 cm (A3).

Balsam Fir and White Spruce were the dominant species at Data Point "WL21-UP1" in the canopy. Balsam Fir, Mountain Ash, Green Alder, and White Birch were dominants in the subcanopy while Bunchberry, Mountain Woodfern, Blackberry, and Mountain Cranberry are dominant in the understory (Photo 79; Appendix C). The PI was observed to be 3.1. The substrate was found to consist of a 10 cm duff layer over a 20 cm sand loam B horizon (10YR 3/6), over rock (Photo 80, Appendix C). The area appeared to be well drained with no presence of saturation. The lack of hydophytic vegetation, hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along the west, east and south sides of WL21 were determined by an abrupt change in elevation. The boundary along the northern side of this wetland was determined by the presence of the beach.

#### 4.1.22 Wetland 22 (WL22)

WL22 (Figure 24) is a Fen wetland approximately 0.1 ha in total area located along an unnamed stream in the northeast end of the Project Area (Figure 2). One paired sampling site was recorded (labeled as WL26 on the data sheets in Appendix A). The wetland was determined to contain normal site conditions. Upland habitat surrounding this wetland consists primarily of coniferous forest.



Balsam Fir and White Spruce are the dominant species at Data Point "WL22-WP1" in the canopy. The dominant species in the subcanopy include Black Choke Berry, Green Alder and Leatherleaf. Bog Aster, Canada Bluejoint (*Calamagrostis canadensis*) and Swamp Loosestrife (*Lysmachia terrestris*) dominate the understorey (Photo 81; Appendix C). The PI was calculated to be 1.4. The soil was determined to be a Histosol (A1) as there was over 40 cm of accumulated organic matter accumulated (Photo 82; Appendix C). Surface water was not present however soil saturation was at 3 cm (A3) and Hydrogen Sulfide odor was detected (C1).

White Spruce was the dominant species at Data Point "WL22-UP1" in the canopy. Balsam Fir, Mountain Ash and White Birch were determined to be dominants in the subcanopy while Bunchberry and Mountain Woodfern are dominant in the understory (Photo 83; Appendix C). The PI was observed to be 3.1. The substrate was found to consist of a 15 cm duff layer over a 10 cm silt loam B horizon (7.5YR 3/3) (Photo 84, Appendix C). The area appeared to be well drained with no presence of saturation. The lack of hydophytic vegetation, hydric soil and wetland hydrology identifies this site as upland.

Wetland boundaries along all sides of WL22 were determined by an abrupt change in elevation.

## 4.2 Functional Assessments

The resulting description of wetland functions will provide the baseline for further assessment and monitoring of project impacts. The description of wetland functions is intended to be conservative. Completed assessment forms are located in Appendix D.

## 4.2.1 Ecological Characterization

The Project occurs with the tertiary watershed (1EQ-SD) within which covers approximately 518 km<sup>2</sup> and encompasses the land east of the Project site to the eastern end of Guysborough County and extends west of the Project site to the community of Goldboro. Land cover within the majority of this watershed is forested and open natural areas (e.g. barrens) with a combined coverage of approximately 86% of tertiary watershed 1EQ-SD. Wetlands also constitute a relatively moderate component of this wetland covering approximately 11% of the total area. Anthropogenic development in this area is relatively low with residential, gravel pits, roads and landfills combining for a total coverage of approximately 7% of the tertiary land cover.

Forestry is the greatest stress within the tertiary watershed where large clear cut and partial cut blocks are noted to occur throughout the area. The overall watershed condition is relatively unaltered with a low percentage of impervious surfaces. The reliance on individual wetlands to contribute to flood water detention is moderate given the proportion of total wetland area in this watershed.

Land cover in the Project area consists primarily of coniferous / mixed forest in various successional stages intermixed with open shrub dominated areas and wetlands. A number of small streams are located within the Project area, the largest occurring in the southwestern end



which flows south through WL1 before connecting to Indian Cove Creek. Fish surveys conducted within the small streams in the Project Area as well as Fogherty Lake (also occurring on the Project Area) found no fish species present which may be attributed to the very low pH of the surface water present onsite.

Vegetation surveys conducted during previous years and supplemented during the 2014 field surveys indicated that no plant species at risk listed under the federal Species at Risk Act (SARA) or Nova Scotia Endangered Species Act (NSESA) were recorded in the Project area. One plant species of conservation concern, Northern Comandra (*Geocaulon lividum* – ACCDC rank; S3) was recorded in wetland 22 (WL22). Southern Twayblade (*Listera australis* – ACCDC rank; S2) was also found along two watercourses in the west side of the Project Area. three lichen species of conservation concern were also noted in many of the wetlands within the Project Area including; Black-footed Reindeer Lichen (*Cladonia stygia* – Canada General Status rank; 3: ACCDC rank; S3?) and Coastal Bushy Beard Lichen (*Usnea flammea* – Canada General Status rank; 3: ACCDC rank; S2S3).

Surface hydrology in the area flows in two major directions on the property. The western and northern portion of the site drains in a northerly direction towards the ocean, while the central and southeastern section of the site flows in a southeast direction into Indian Cove Creek. A small portion of the eastern edge of the Project Area also flows in an easterly direction towards Murphy's Lake and eventually to the ocean.

Groundwater flow is inferred to follow similar directional flow as surface drainage patterns. Based on various characteristics such as wetland soils, land use in the subwatershed upstream, topographic relief surrounding wetlands and hydroperiod of wetland, 16 of the 22 wetlands assessed are likely groundwater discharge sites. Wetlands 9, 11, 16, 19 and 20 were found to potentially serve as groundwater recharge sites. Wetland 9 and 10 are relatively large in size however the groundwater flow path originating from these wetlands flows toward the ocean with no downstream users identified. A total of 16 wells are recorded in the NS well log database, however given the relative small size of wetlands 16, 19 and 20, the location of wetlands 9 and 11 relative to potable water wells and since the remaining wetlands in the Project area are likely discharge wetlands, it is unlikely that the Project impacts on wetlands will have any significant impact on the ground water flow regime and potable water wells of the area.

## 4.2.2 Significant Wetland Functions

The functional assessments conducted for the 22 wetlands located within the Project site determined that the overall watershed condition within which these wetlands are located is in a relatively unaltered state with wetland habitat covering approximately 11% of the total land area of the watershed. The buffer area surrounding these wetlands is fully vegetated and relatively unaltered providing high quality wildlife habitat and water quality functions. All wetlands assessed were determined to provide high floristic quality where the plant community is composed of native species characteristic of the wetland type with a very minor component of non-native species. Table 4.3 presents and summary of the various significant functions each



wetland was assessed to provide (see Appendix D for more details regarding the functional assessments).

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Significant Function	WL1	WL2	WL3	WL4	WL5	WL6	WL7	WL8	WL9	WL10	WL11	WL12	WL13	WL14	WL15	WL16	WL17	WL18	WL
SF1-Watershed condition (H- Significantly modified, M-Modified, L- Relatively unaltered)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	
SF2-Proportion of WL area in watershed & opportunity for floodwater detention (H,M,L)	М	М	М	М	М	М	М	Μ	М	М	М	М	М	М	М	М	М	М	Ν
SF3-Rate the general wetland condition/integrity (H,M,L)	н	Н	Н	Н	н	н	Н	Н	Н	Н	н	н	Н	н	н	н	Н	Н	ŀ
SF4-Rate the overall condition and integrity land adjacent to wetland (H,M,L)	н	н	н	н	н	Н	Н	Н	н	Н	н	н	н	н	н	н	Н	Н	ŀ
SF5-Is the WL a WSS? (Y/N)	Ν	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	N	N	N	N	N	N	N	N	١
SF6-Does the WL support commercial/recreational fish/shellfish? (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	٢
*SF7-Species of concern (Fed/Prov)? Specify.	S2	Ν	N	N	N	N	N	S2	N	S3	S2	S2	N	N	N	N	S2	S2,S3	s
SF8-Wetland has conservation/ compensation agreements/activity? (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	١
SF9-Wetland is calcerous fen, black ash or cedar swamp? (Y/N)	N	Ν	N	N	N	N	N	N	N	Ν	N	N	N	N	N	N	N	N	1
SF10-Within Drinking Water Protected Area (designated watershed/wellfield) (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	٦
SF11-WL within a floodplain and upstream of or within of a populated area? (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	٢
SF12-Fed/Prov/Municipal area of interest? (Y/N)	N	Ν	N	N	N	N	N	Ν	N	Ν	N	N	N	N	N	N	N	N	1
SF13-WL hydrologic condition	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NAT	NA									
SF14-WL important for maintaining stream flow? (Y/N)	Y	Ν	Y	N	N	Y	Ν	Y	N	Ν	N	N	N	Y	N	N	Y	Ν	٢
SF15-WL ability to detain surface water (H,M,L)	м	Н	М	М	М	М	М	М	М	М	М	М	М	н	М	М	Н	М	N
SF16-Wetland improves water quality? (Y/N)	Y	Y	Y	Ν	N	Y	Y	Y	N	Y	N	N	N	Y	Y	N	Y	Ν	١
SF17-Evidence of excess nutrient loading/ contamination? (H,M,L)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	
SF18-WL contributes to water quality in downstream resources (H,M,L)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	l
SF19-WL serves as a recharge site (Y/N)	N	Ν	N	N	N	N	N	N	Y	N	Y	N	N	N	N	Y	N	Y	

WL19	WL20	WL21	WL22
L	L	L	L
М	М	М	М
н	Н	Н	Н
н	Н	Н	Н
N	N	N	N
N	Ν	Ν	Ν
S2	S2	Ν	Ν
N	Ν	Ν	Ν
N	Ν	Ν	N
N	Ν	Ν	N
N	Ν	Ν	N
N	Ν	Ν	Ν
NAT	NAT	NAT	NAT
Ν	Ν	Ν	Ν
М	М	М	М
N	Ν	Y	Y
L	L	L	L
L	L	L	L
Y	Y	Ν	Ν



Significant Function	WL1	WL2	WL3	WL4	WL5	WL6	WL7	WL8	WL9	WL10	WL11	WL12	WL13	WL14	WL15	WL16	WL17	WL18	WL19	WL20	WL21	WL22
SF20-WL serves as a discharge site (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SF21-WL ability to stabilize shoreline (H,M,L)	М	Н	L	L	L	L	М	М	L	М	L	L	L	М	М	L	L	L	L	L	L	М
SF22-Is the plant community unique or rare regionally or provincially? (Y/N)	Ν	N	N	Ν	N	N	Ν	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	N	N
SF23-Does the WL contain a diversity of plant communities (H,M,L)	Н	н	L	L	М	L	L	н	М	L	М	L	L	М	L	L	М	М	М	М	L	L
SF24-Rate the overall integrity/quality of plant community? (H,M,L)	Н	н	н	Н	Н	н	н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
*SF25-Are there any observed rare or endangered plant species? Specify.	S2	N	N	Ν	Ν	N	Ν	S2	Ν	S3	S2	S2	Ν	Ν	Ν	Ν	S2	S2,S3	S2	S2	N	N
SF26-Does wetland support fish/fish habitat? (Y/N)	Ν	N	N	N	N	N	Ν	N	N	Ν	Ν	N	N	Ν	Ν	Ν	Ν	Ν	Ν	N	N	N
*SF27-Rare or endangered fish/wildlife species found in the wetland?	Ν	N	N	N	N	N	Ν	N	N	Ν	Ν	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	N	N
SF28-Overall fish and wildlife habitat quality ( <mark>H</mark> ,M,L)	М	М	М	М	М	м	М	М	М	М	М	М	М	М	М	М	М	М	М	М	М	М
SF29-Rate the wetland's community use/ value (H,M,L)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Notes:																						

watershed if lost (NSE 2014).

Unless otherwise stated: H=High; M=Moderate/Medium; L=Low; Y=Yes; N=No; NAT=Natural

## 4.2.2.1 Wetland 1 (WL1)

WL1 is characterized as a wetland complex comprised of a mix of bog and swamp types. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

This wetland is important in maintaining stream flow of the unnamed stream that flows along the east side of the Project area (SF14). The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with high species diversity and little to no influence of invasive/non-native species. This complex consists of a number of different wetland types and as such it is considered to have a high diversity of high quality vegetation communities (SF23 and SF24). One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was recorded in WL1.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland may provide open aesthetic functions as well as berry picking and plant gathering opportunities as it is somewhat accessible to the public via the power line transmission corridor (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream.

## 4.2.2.2 Wetland 2 (WL2)

WL2 is characterized as a wetland complex comprised of marsh, fen and swamp wetland types. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function. This wetland borders a small pond at the northern boundary located behind a barrier beach. This area does receive periodic salt water influx during storm events, however the vegetation present in this wetland indicate that this is a fresh water pond.

The hydrologic condition of this wetland is considered natural with a high ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17). Given the location of this wetland within the landscape, it provides a high ability to stabilize the shoreline (SF21) in particular during storm events.



The plant community in this wetland was determined to be relatively intact with high species diversity and little to no influence of invasive/non-native species. This complex consists of a number of different wetland types and as such it is considered to have a high diversity of high quality vegetation communities (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland may provide open aesthetic functions however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).

Red rated significant functions provided by this wetland include stabilizing the shoreline (SF21).

## 4.2.2.3 Wetland 3 (WL3)

WL3 is characterized as a sloped throughflow fen wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

This wetland is important in maintaining stream flow of the unnamed stream that flows through this wetland (SF14). The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland may provide open aesthetic functions however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream.

## 4.2.2.4 Wetland 4 (WL4)

WL4 is characterized as an isolated treed bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.



The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with low species diversity but little to no influence of invasive/non-native species. This wetland is considered to have a low diversity of plant communities, however the vegetation community present is considered of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.5 Wetland 5 (WL5)

WL5 is characterized as a sloped throughflow fen wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland may provide open aesthetic functions however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).

No red rated functions were assessed for this wetland.

#### 4.2.2.6 Wetland 6 (WL6)

WL6 is characterized as an outflow bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

This wetland is important in maintaining stream flow of the unnamed stream that originates from the west and east ends of this wetland (SF14). The hydrologic condition of this wetland is



considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream.

#### 4.2.2.7 Wetland 7 (WL7)

WL7 is characterized as a throughflow swamp wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with low species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.8 Wetland 8 (WL8)

WL8 is characterized as a wetland complex comprised of a mix of bog, fen and swamp types. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.



This wetland is important in maintaining stream flow of the unnamed stream that flows along the east side of the Project area (SF14). The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with high species diversity and little to no influence of invasive/non-native species. This complex consists of a number of different wetland types and as such it is considered to have a high diversity of high quality vegetation communities (SF23 and SF24). Two lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) and Coastal Bushy Heard Lichen (*Usnea flammea* – ACCDC rank; S2S3) were recorded in WL8.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland may provide open aesthetic functions as well as berry picking and plant gathering opportunities however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream (SF14). The Bog Portion of this wetland may also serve as a groundwater recharge site (SF19).

#### 4.2.2.9 Wetland 9 (WL9)

WL9 is characterized as an isolated domed bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Where this wetland is a large isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland is considered to have a moderate diversity of high quality plant communities (SF23 and SF24). One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was recorded in WL9.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland may provide open aesthetic functions as well as berry picking and plant gathering opportunities however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).



Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).

#### 4.2.2.10 Wetland 10 (WL10)

WL10 is characterized as a throughflow treed swamp wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with low species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24). One lichen species of conservation concern, Naked Kidney Lichen (*Nephroma bellum* – ACCDC rank; S3?) was recorded in WL10.

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.11 Wetland 11 (WL11)

WL11 is characterized as an isolated domed bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Since this wetland is a large isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland is considered to have a moderate diversity of high quality plant communities (SF23 and SF24). One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was recorded in WL11.



The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland may provide open aesthetic functions as well as berry picking and plant gathering opportunities however since this wetland is not readily accessible by the public, community use functions are assessed as low (SF29).

Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).

#### 4.2.2.12 Wetland 12 (WL12)

WL12 is characterized as an outflow bog / fen wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24). One lichen species of conservation concern, Coastal Bushy Beard Lichen (*Usnea flammea* – ACCDC rank; S2S3) was recorded in WL12.

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.13 Wetland 13 (WL13)

WL13 is characterized as an isolated treed swamp wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17).



The plant community in this wetland was determined to be relatively intact with low species diversity but little to no influence of invasive/non-native species. This wetland is considered to have a low diversity of plant communities, however the vegetation community present is considered of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.14 Wetland 14 (WL14)

WL14 is characterized as a wetland complex comprised of a mix of bog and fen types. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

This wetland is important in maintaining stream flow of the unnamed stream that flows through the wetland to the southeast (SF14). The hydrologic condition of this wetland is considered natural with a high ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17). The wetland also provides a significant flood/stormwater attenuation function for the surrounding landscape.

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This complex consists of a number of different wetland types and as such it is considered to have a moderate diversity of high quality vegetation communities (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream.

#### 4.2.2.15 Wetland 15 (WL15)

WL15 is characterized as a sloped throughflow fen wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.



The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.16 Wetland 16 (WL16)

WL16 is characterized as an isolated bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Since this wetland is an isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland is considered to have a low diversity of plant communities, however the vegetation community present is considered to be of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).

#### 4.2.2.17 Wetland 17 (WL17)

WL17 is characterized as an outflow bog / swamp wetland complex. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.



This wetland is important in maintaining stream flow of the unnamed stream that flows of the wetland at the southwest end (SF14). The hydrologic condition of this wetland is considered natural with a high ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland contains a moderate diversity of high quality plant communities (SF23 and SF24). Two lichen species of conservation concern, Coastal Bushy Beard Lichen (*Usnea flammea* – ACCDC rank; S2S3) and Naked Kidney Lichen (*Nephroma bellum* – ACCDC rank S3?) was recorded in WL17.

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes maintaining stream flow in a first/second order stream.

#### 4.2.2.18 Wetland 18 (WL18)

WL18 is characterized as an isolated bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Since this wetland is an isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland contains a moderate diversity of high quality plant communities (SF23 and SF24). One plant species of conservation concern, Northern Comandra (*Geocaulon lividum* – ACCDC rank; S3) was recorded in WL18. One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was also recorded in WL18.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).



#### 4.2.2.19 Wetland 19 (WL19)

WL19 is characterized as an isolated bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Since this wetland is an isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland contains a moderate diversity of high quality plant communities (SF23 and SF24). One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was recorded in WL19.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).

#### 4.2.2.20 Wetland 20 (WL20)

WL20 is characterized as an isolated bog wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural (SF13) with little evidence of excess nutrient loading or contamination (SF17). Since this wetland is an isolated bog with no visible inlet or outlet it may serve as a groundwater recharge site (SF19).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. This wetland contains a moderate diversity of high quality plant communities (SF23 and SF24). One lichen species of conservation concern, Black-footed Reindeer Lichen (*Cladonia stygia* – ACCDC rank; S2S3) was recorded in WL20.

The wetland may provide moderate habitat to amphibians, reptiles and mammals. This wetland is not readily available to the public and as such provides low community use value (SF29).

Red rated significant functions provided by this wetland includes potentially serving as a groundwater recharge site (SF19).



#### 4.2.2.21 Wetland 21 (WL21)

WL21 is characterized as a sloped inflow fen wetland. Although there is no outflow channel present, outflow from this wetland likely occurs under/through the boulder cobble beach located along the northern boundary of this wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).

No red rated significant functions were assessed for this wetland.

#### 4.2.2.22 Wetland 22 (WL22)

WL22 is characterized as a sloped throughflow fen wetland. The integrity of this wetland and surrounding buffer is considered to be high where impacts to this wetland are minimal and the adjacent buffer area is considered to be in a natural state and fully vegetated (SF3 and SF4). The buffer zone surrounding the wetland provides high quality wildlife habitat and water quality function.

The hydrologic condition of this wetland is considered natural with a moderate ability to detain surface water (SF15) and stabilize the shoreline (SF21). The wetland was also determined to improve water quality (SF16) with little evidence of excess nutrient loading or contamination (SF17).

The plant community in this wetland was determined to be relatively intact with moderate species diversity and little to no influence of invasive/non-native species. Although this wetland contains low diversity of plant communities, the community present is of high quality (SF23 and SF24).

The wetland may provide moderate habitat to amphibians, reptiles and mammals (SF28). This wetland is not readily available to the public and as such provides low community use value (SF29).



No red rated significant functions were assessed for this wetland.

### 5.0 CONCLUSION

A total of 22 wetlands were encountered within the Project study area. Habitat and functional assessments and field delineations were conducted for all wetlands encountered within the Project study area boundary.

The functional assessment indicate that 12 of the 22 wetlands perform red rated significant functions which elevate the relative importance of these wetlands in terms of the functions they provide to the surrounding watershed. Six of the wetlands assessed with red rated significant functions (WL1, 3, 6, 8, 14 and 17) occur along or form the headwater of small watercourses throughout the site and as such are important in maintaining stream flow. Seven of the wetlands assessed as having red rated significant functions (WL 8, 9, 11, 16, 18, 19 and 20) may serve as groundwater recharge sites while one wetland (WL2) provides a red rated significant function of stabilizing the shoreline. Results of this study will be used to assess the potential impacts of the proposed Black Point Quarry on wetland habitat within the Project Study Area.



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APPENDIX A Wetland Delineation Data Sheets and Habitat Assessment Forms

# Freshwater Wetland Data Sheet 🕠 🛴 - 🕻 🛛

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_ 2.Bog(BO) \_\_\_\_ 3.Fen (FE) \_\_\_\_

Wetland Class:

- 1.Open water \_
- 2.Deep marsh \_\_\_\_\_
- 3.Shallow marsh
- 4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass:

1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3. Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM 9.Sub-shrub DM \_\_\_\_\_ 10.Floating leaved DM \_\_\_\_\_ 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh 16.Robust SM \_\_\_\_\_ 17.Narrow leaved SM \_\_\_\_\_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_X\_\_\_ 4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_X

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_ 8.Bog \_\_\_\_

19.Floating leaved SM \_\_\_\_ 20.Rooted floating leaved SM \_\_\_\_\_ 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF \_\_\_\_\_ 24.Grazed meadow \_\_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS X 33.Wooded bog \_\_\_\_\_ 34.Shrubby B 35.Open B \_\_\_\_\_

3.Seasonally flooded \_X\_

<u>Water Depth:</u> 1.0-5 cm <u>X</u>

2.5-20 cm \_\_\_\_\_ 3.20-50 cm \_\_\_\_ 4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond <u>X</u> 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1. Deciduous trees — 2. Coniferous trees 70% - Fir 3. Dead trees 10% 4. Tall shrubs 200 5. Low shrubs - 6. Dead shrubs - 7. Herbs 15% - Corret Ari, Cincom Ari 8. Mosses 10000 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants 13. Floating plants (rooted) 14. Submerged plants - 15. Other	
Interspersion: 1.Minimal X 2.Low 3.Mediu	um 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>рН</u> : N/A
<u>Hydrological Classification:</u> 1.Surface water depression 2.Ground water depression	3.Surface water slope $\underline{\times}$ 4.Ground water slope
Inlets/Outlets/water bodies: Bidincfional - Beum Pond	
Wildlife: (Observation/Signs/Reports)	

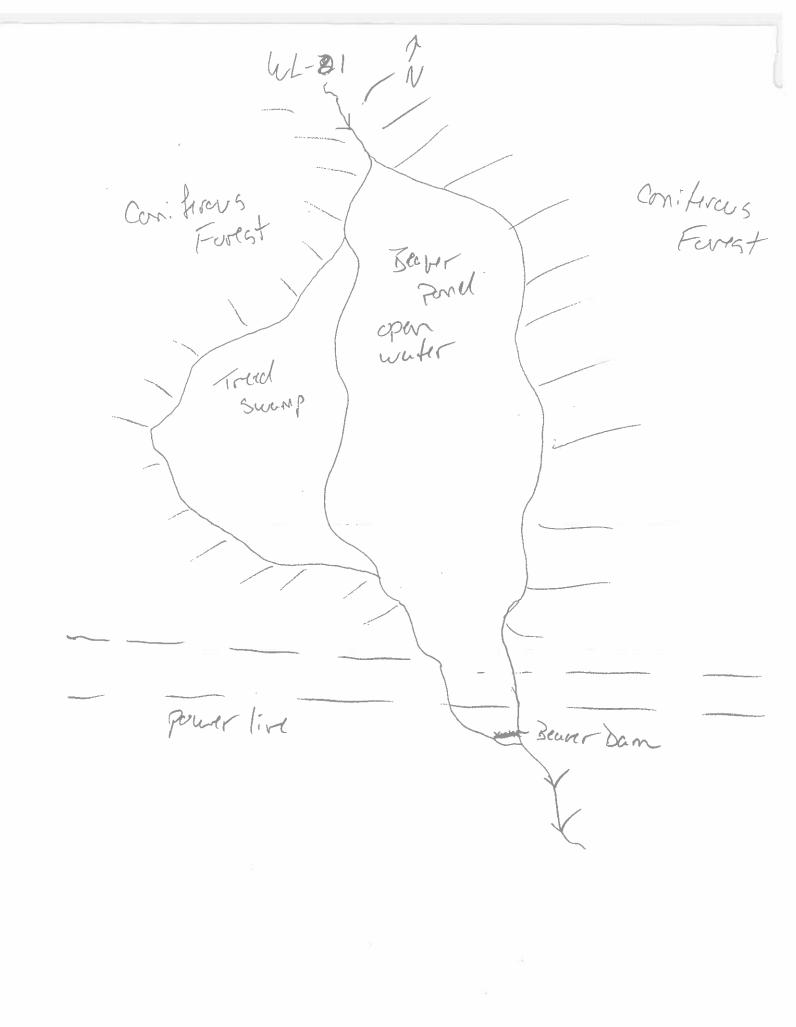
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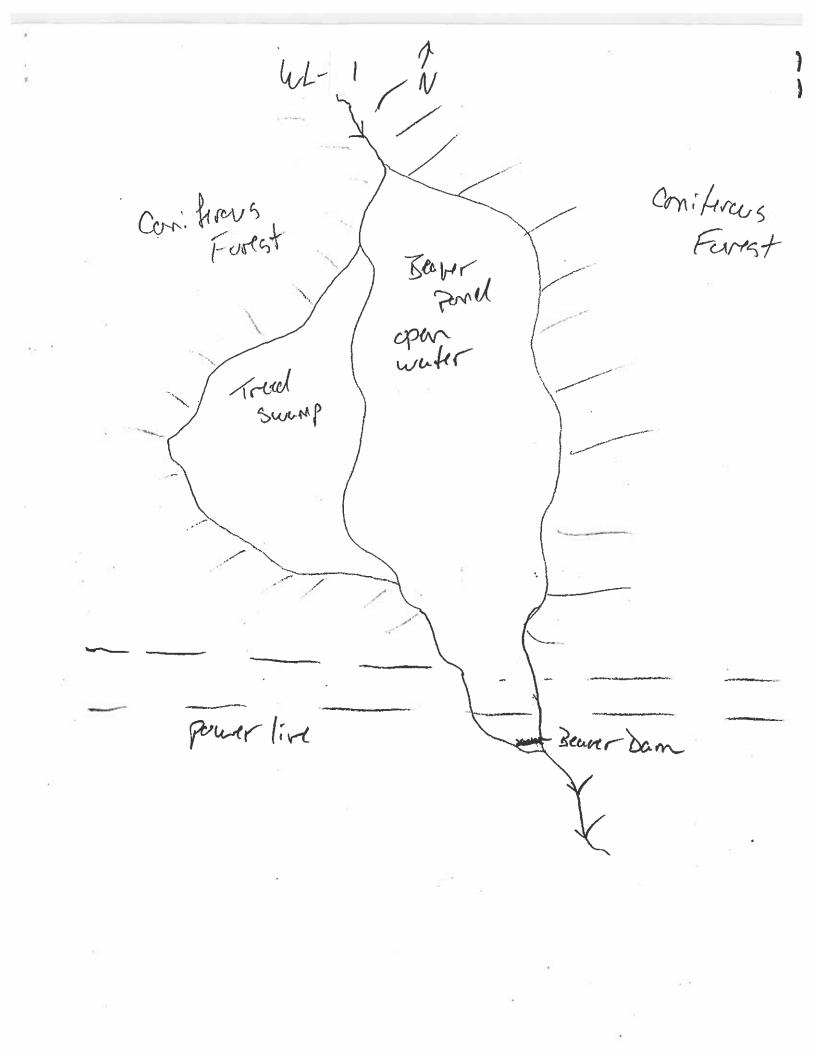
Page 2

Adjacent Wildlife habitat (%): 1.Salt marsh 5.Beach 6.River 7. Other 2.Forest 2090 3.Dykelands \_\_\_\_\_ 4.Mudflats Burr Pond Description: mixed woods Surrounding Land Use %: 1 Agriculture 7.Residential 2.Forestry \_\_\_\_\_ 8.Waste Disposal 9.Scientific Research 3 Recreation 4.Industrial 10.Trapping 5.Urban development 11.Education 6.Transportation 12.Seasonal resident Description: NUM Disturbance: 1.Low \_ 2.Moderate \_\_\_\_ 3.High \_\_\_\_\_ Description:  $\mathcal{F}$ Roads and/or tracks: 4.DOT road within \_\_\_\_\_ 1.Private road adjacent 2.DOT road adjacent 5.Vehicle tracks 3. Private road within \_\_\_\_\_ 6.Other \_\_\_\_\_ Description: Existing Uses of Wetlands: 1.Economic use (e.g. farming) \_\_\_\_ 4. Education & public awareness 2.Recreational activities 5. None evident 🦯 3.Aesthetics Potential Threats: Special Features: 1.Rare wetland type \_\_\_\_ 4.Nesting site for colonial water birds \_\_\_\_\_ 2.Rare animal or plant species \_\_\_\_\_ 5. Migration stop-over site \_\_\_\_\_ 3.Habitat of rare species \_\_\_\_ 6. None evident \_\_\_\_\_ Description: Pothutial

Notes:

Page 3





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## Freshwater Wetland Data Sheet 6127

Date: <u>Sept. 90/10</u> Investigator(s): <u>S. Bur Irg</u> Weather: <u>Son / Char of</u> Topographic Sheet: <u>\_\_\_\_\_</u> Aerial Photo Number: <u>\_\_\_\_\_</u>

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_\_ 2.Bog(BO) \_X\_\_\_\_ 3.Fen (FE) \_X\_\_\_\_

Wetland Class:

- 1.Open water \_
- 2.Deep marsh \_
- 3.Shallow marsh
- 4.Seasonally flooded flats \_\_\_\_

Wetland Subclass:

1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh 7.Non-vegetated DM 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM \_ 17.Narrow leaved SM \_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_

Water Depth:

1.0-5 cm	<u>X</u>
2.5-20 cm	
3.20-50 cm	

Wetland Atlas Number : GIS Map / Stand No. : <u>C4530611</u> Wetland Form<sup>1</sup>:: <u>Bog / Shull Fen</u> <u>ha</u> Wetland size: Associated Watercourse:

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB)  $\underline{\times}$ 6.Forested wetland (FW)  $\underline{\times}$ 

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_X\_\_\_\_ 7.Wooded swamp \_\_<u>X\_\_\_</u> 8.Bog \_<u>X\_\_\_</u>

19.Floating leaved SM \_ 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow 25.Ungrazed M 26.Sedge M 27. Sapling shrub swamp X28.Bushy SS 📐 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog 34.Shrubby B 35.Open B 🖌 Shirula Fen X

3.Seasonally flooded \_\_\_\_

4.50-100 cm <u>X</u> > C hanna / 5.>100 cm \_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 3. Ducks Unlimited Impoundment 2.Man-made Impoundment 4. None of the above X Percent Vegetation Cover: 1.> 95% \_/\_\_ 5.26-75% in patches 2.76-95% in peripheral band 6. 5-25% in peripheral band 3.76-96% in patches 7. 5-25% in patches \_\_\_\_\_ 4.26-75% in peripheral band 8.< 5% Wetland Site: 1.Lacustrine 4.Isolated 2.Riverine X5.Deltaic 3.Palustrine Vegetation Types (%): 1. Deciduous trees 290 2. Coniferous trees 3090 - Lurch, & Sprice 3. Dead trees 270 4. Tall shrubs 2070 - Neme, wild Ruisin 5. Low shrubs 3590 - Ledeur, hatter feut Kalmia 6. Dead shrubs - zone - Coret, Calamagrest. S. False Salamon Stal 8. Mosses 10090-SPhag 9.Narrow-leaved emergents 10.Broad-leaved emergents -11.Robust emergents 12.Free-floating plants 13.Floating plants (rooted) 14.Submerged plants 15. Other -Interspersion: 1.Minimal \_\_\_\_ 2.Low \_X\_\_\_ 3.Medium \_\_\_\_ 4.High \_\_\_\_ Conductivity: N/A <u>pH</u>: N/A Alkalinity: N/A Hydrological Classification: 3.Surface water slope  $\underline{X}$ 1.Surface water depression \_ 2.Ground water depression 4.Ground water slope Inlets/Outlets/water bodies: Stric M through the thread ten / Bag Wildlife: (Observation/Signs/Reports)

Nut hatch

Drugon Aling

4

Description: mixed woods Surrounding Land Use %: 7.Residential \_\_\_\_\_ 8.Waste Disposal \_ 1 Agriculture 2.Forestry \_\_\_\_\_ 3 Recreation \_\_\_\_ 9. Scientific Research 4.Industrial 560 10.Trapping 5. Urban development 11.Education 6.Transportation 12.Seasonal resident Description: Pour live along South Siele of hog. Disturbance: 1.Low X 2.Moderate 3.High \_\_\_\_ Description: Roads and/or tracks: 1.Private road adjacent 4 DOT road within \_ 5.Vehicle tracks 2.DOT road adjacent 3. Private road within 6.Other \_\_\_\_\_ Description: ATU drack Ascual bug Existing Uses of Wetlands: 1.Economic use (e.g. farming) \_\_\_\_ 4.Education & public awareness 2.Recreational activities 5. None evident 🔨 3.Aesthetics Potential Threats: Special Features: 1.Rare wetland type \_\_\_\_ 4.Nesting site for colonial water birds 2.Rare animal or plant species \_\_\_\_\_ 5.Migration stop-over site 3.Habitat of rare species \_\_\_\_ 6. None evident Description: Pothatici

5.Beach

8

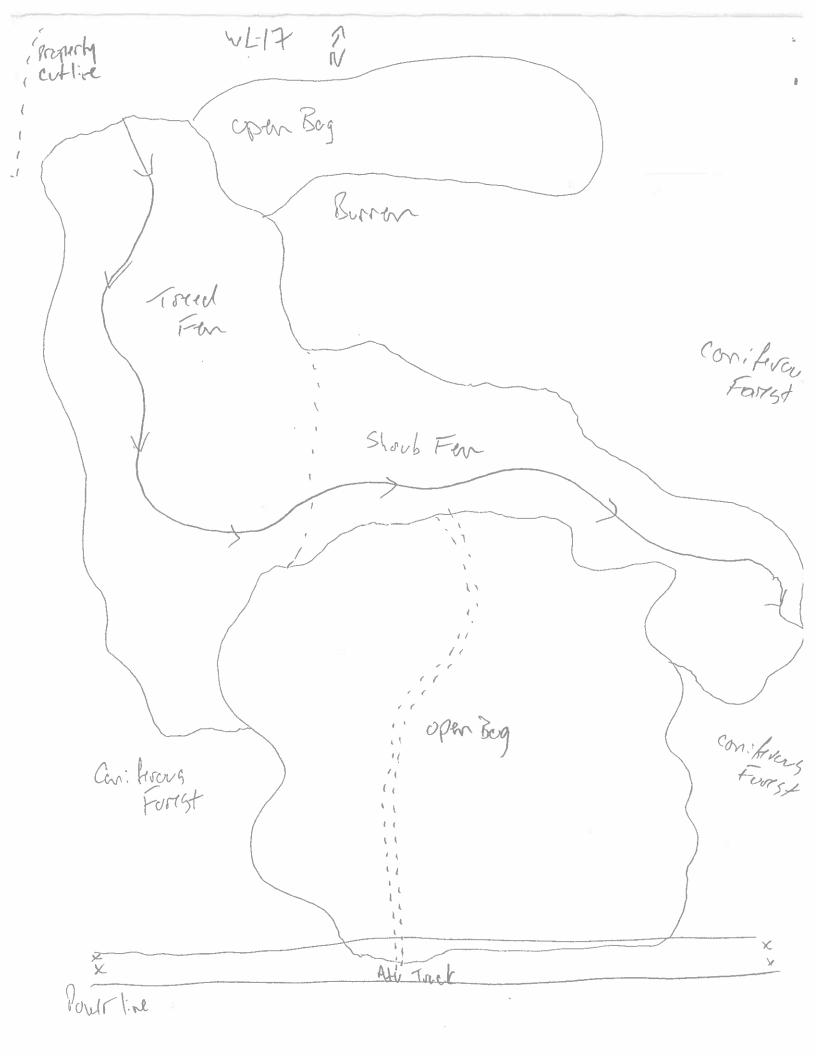
Adjacent Wildlife habitat (%):

1.Salt marsh

Notes:

2.Forest BOP

3.Dykelands \_\_\_\_\_ 4.Mudflats \_\_\_\_\_ Page 3



## Freshwater Wetland Data Sheet 62/8

Date: <u>Stpf B/10</u> Investigator(s): <u>S. Barne</u> Weather: <u>Claudy</u> Topographic Sheet: <u>\_\_\_\_\_</u> Aerial Photo Number: <u>\_\_\_\_\_</u>

 Wetland Type:

 1.Aquatic bed/unconsolidated bottom (AB)

 2.Bog(BO)
 <a></a>

 3.Fen (FE)
 \_\_\_\_\_

Wetland Class:

1.Open water \_\_\_\_

2.Deep marsh \_

3.Shallow marsh

4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass:

1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh 16.Robust SM 17.Narrow leaved SM 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow

6.Shrub swamp

7.Wooded swamp

8.Bog <u>×</u>

19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow \_\_\_\_ 25.Ungrazed M 26.Sedge M 27.Sapling shrub swamp 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32. Evergreen WS 33.Wooded bog 🔀 34.Shrubby B 35.Open B 🔄 🗶

3.Seasonally flooded \_\_\_\_

Water Depth:

1.0-5 cm <u>×</u> 2.5-20 cm <u>3.20-50 cm</u> 4.50-100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Watland Type:	
Impounded Wetland Type: 1.Beaver Pond	2 Duales Unlimited Iron support
	3. Ducks Unlimited Impoundment
2.Man-made Impoundment	4. None of the above <u>×</u>
Percent Vegetation Cover:	
1.> 95% 📈	5.26-75% in patches
2.76-95% in peripheral band	6. 5-25% in peripheral band
3.76-96% in patches	7. 5-25% in patches
4.26-75% in peripheral band	8.< 5%
	8.~ 5 %
Wetland Site:	
1.Lacustrine	4.Isolated
2.Riverine	5.Deltaic
3.Palustrine	
Vegetation Types (%):	
1 Desiduarya traca -	
2.Coniferous trees 20 % Lorch B. Spriver	
3 Dead trees	
4 Tall shrubs 1550 Adams 1 1 1	
4. Tall shrubs 1590 MMO, wild whisin 5. Low shrubs 4070 - Huckbeing, Kalmin, 6. Dead shrubs -	
6 Dead shrubs	Lidum Juniper
7 Herbs 7 ages - Stirpus argo Lung P	
7. Herbs Zugo - Scirpus crapitoris, B. 8. Mosses 10000	one LATTY
0.140336370070	
9.Narrow-leaved emergents	
10.Broad-leaved emergents -	
11.Robust emergents	
12.Free-floating plants -	
13.Floating plants (rooted)	
14.Submerged plants -	
15. Other	
Interspersion: 1.Minimal 🔀 2.Low 3.Mediu	um 4.High
Conductivity: N/A	-11- A1/A
Conductivity: N/A	<u>рН</u> : N/A
Alkalinity: N/A	
Hydrological Classification: 1.Surface water depression	Rea
1 Surface water depression	
1. Surface water depression	3.Surface water slope
2.Ground water depression	4.Ground water slope
Inlets/Outlets/water bodies:	
more dissirid	
Wildlife: (Observation/Signs/Reports)	
ficeadre	
A second se	

Page 2

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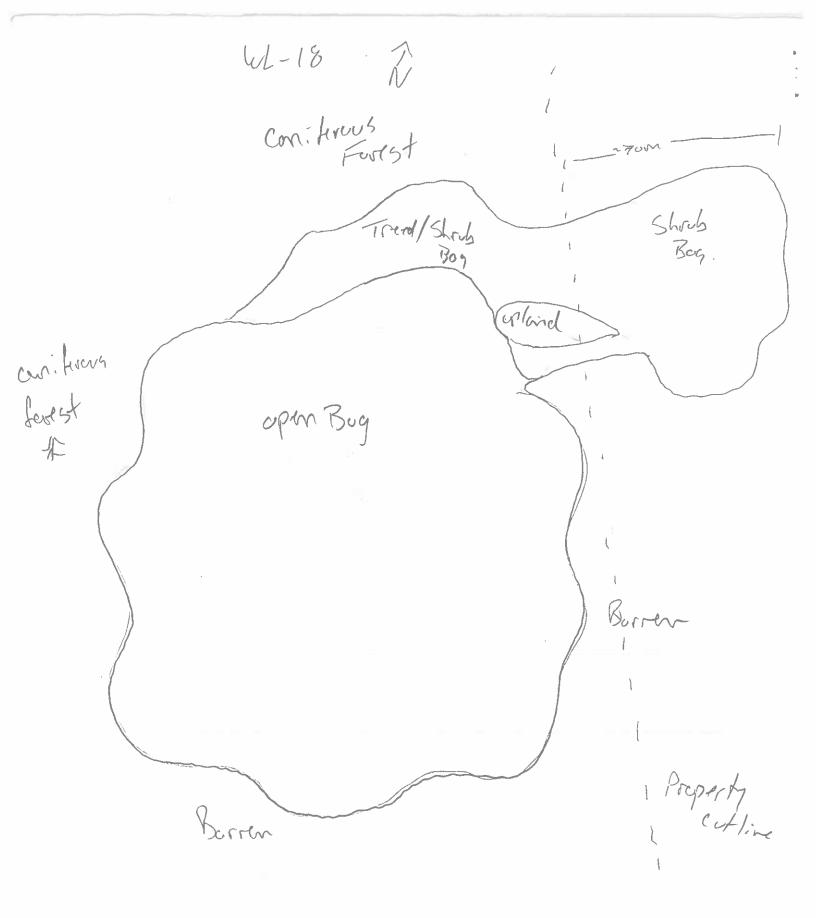
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Page 3

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest <u>507</u> 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other <u>SC95</u> Barren
Description: mixed woods	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description:	
Disturbance: 1.Low 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	<ul> <li>4.Education &amp; public awareness</li> <li>5. None evident</li> </ul>
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
Description: Putter fin	No. of A
Notes:	

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WETLAND DELINEATIO	ON DATA FORM -	NOVA SCOTIA	
Project/Site: Black loint Municipalit	y/County: Ours	beneral s	Sampling Date: <u>Aug. 191</u> /2
Applicant/Owner: Victor	/	Sampling Point:	and the second sec
Investigator(s): <u>S.S.K.H7</u>	Affiliation:	IPC	
Landform (hillslope, terrace, etc.): Deper 55im	Local relief	(concave, convex, none):	Hummally
	Long: 5071	115 8	tum: PAR Kaz
Soil Map Unit Name/Type: <u>Pro Klund</u>	We	lland Type: <u>8070</u>	900
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No	(If no, explain în Rema	arks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "	Normal Circumstances" pres	ent? Yes No
Are Vegetation, Soil, or Hydrology naturally pro		eded, explain any answers ir	
SUMMARY OF FINDINGS – Attach site map showing	sampling point lo	cations transects im	nortant features etc
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No         Wetland Hydrology Present?       Yes       No         Remarks:       (Explain alternative procedures here or in a separate report	Is the Sampled within a Wetlan If yes, optional V	Area	
VEGETATION – Use scientific names of plants.	>>		
Absolute	Dominant Indicator	Dominance Test workshe	et:
	Species? Status	Number of Dominant Speci	
2. Dicker Anurina 5	- FAL	That Are OBL, FACW, or F	AC: (A)
$\frac{2}{3}$		Total Number of Dominant	
4		Species Across All Strata:	(B)
5. 0		Percent of Dominant Speci That Are OBL, FACW, or F	
$-\frac{7}{7}$	= Total Cover	2.53	
Sapling/Shrub Stratum (Plot size: 70.)	CA.	Prevalence Index worksh	
1. Adaption 115 Automates 30	- FAC	<u>Total % Cover of:</u> OBL species	$\frac{\text{Multiply by:}}{x 1 = 45}$
3. Rhedaltantin Conditions 5	Fitt	FACW species	$x_{2} = 50$
4. Pilter Martinara 10	FACE	FAC species	x3= 772
5. Ralprice encloset, Seelice 2	EAL	FACU species	x4=
<u>C)</u>	= Total Cover	UPL species	x 5 =
Herb Stratum (Plot size: / /// )	/ FAC	Column Totals: 181	(A) <u>428</u> (B)
2. Chamber Capter Calycalater 30	- URL	Prevalence Index = E	3/A= à-4
3. Score in a Dispirale 15	OBL	Hydrophytic Vegetation I	
4. Marcinium conquest dulium 5.	FAC	Rapid Test for Hydropl	
5. Leduna conventionalicum M2.	TALL	Dominance Test is >50	)%
6. Carone Canad tabia 2	Fite	Prevalence Index is ≤3	
7		Morphological Adaptat	ions <sup>1</sup> (Provide supporting on a separate sheet)
8		Problematic Hydrophyl	· /
9			ie vegetation (Explain)
10	= Total Cover	<sup>1</sup> Indicators of hydric soil an be present, unless disturbe	d wetland hydrology must d or problematic.
1		Hydrophytic	
2		Vegetation	
	= Total Cover	Present? Yes _	<u> </u>
Remarks: (Include photo numbers here or on a separate sheet.)			

	lepth needed to document the indicator or c	ommin the absence of	muicators.)
Depth Matrix inches	<u>Redox Features</u> <u>Color (moist)%Type<sup>1</sup>L</u>	oc <sup>2</sup> Texture	Remarks
1 AC			I Centarks
2-35 107R 512 100	۶ <sup>-4</sup>	Lacany So	nd
-			
	~		
	RM=Reduced Matrix, CS=Covered or Coated S		on: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)		airie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)		ky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)		ganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Floodplain Soils (F19)
_ Stratified Layers (A5) _ Depleted Below Dark Surface (A11)	Depleted Matrix (F3) Redox Dark Surface (F6)		nt Material (TF2)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)		plain in Remarks)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)		
Sandy Gleyed Matrix (S4)			
Type: Depth (inches): emarks:	536	Hydric Soil Pr	esent? Yes <u> </u>
Depth (inches):	536	Hydric Soil Pr	esent? Yes <u>     No    </u> No <u> </u>
Depth (inches):	536	Hydric Soil Pr	esent? Yes <u>    No    </u>
Depth (inches):	536		esent? Yes <u>No</u> <u>No</u> <u>Indicators (minimum of two required)</u>
Depth (inches):		Secondary	Indicators (minimum of two required)
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is re	quired; check all that apply)	<u>Secondary</u> Surfac	Indicators (minimum of two required) e Soil Cracks (B6)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is re Surface Water (A1)	quired; check all that apply) Water-Stained Leaves (B9)	Secondary	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10)
Depth (inches):	quired; check all that apply)	Secondary Surfac Draina Moss	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16)
Depth (inches):	quired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Surfac Draina Moss Dry-Se	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3)	quired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Surfac Draina Moss Dry-Se Satura	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2)
Depth (inches):	equired: check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1)	Secondary Surfac Draina Dry-Se Satura Roots (C3) Stunte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) rason Water Table (C2) tion Visible on Aerial Imagery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	quired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Secondary Surfac Draina Moss Dry-Se Satura Roots (C3) Stunte Geome	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	quired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Secondary Surfac Draina Moss Dry-Se Satura Roots (C3) Sturte Geome pils (C6) Shallo	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2)
Depth (inches):	guired: check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Se — Thin Muck Surface (C7)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geomo pils (C6)Shallor Microte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one is re 	quired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Se Thin Muck Surface (C7) r (B7) Other (Explain in Remarks)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geomo pils (C6)Shallor Microte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4)
Depth (inches):	quired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Se Thin Muck Surface (C7) r (B7) Other (Explain in Remarks)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geomo pils (C6)Shallor Microte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4)
Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indicators: Primary Indicators (minimum of one is refinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface ield Observations:	quired; check all that apply)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geomo pils (C6)Shallor Microte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4)
Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indicators: Primary Indicators (minimum of one is re 	quired: check all that apply)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geomo pils (C6)Shallor Microte	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4)
Depth (inches):	quired; check all that apply)	Secondary Surfac Draina Noss Dry-Se Satura Roots (C3)Stunte Geome pils (C6)Shallo FAC-N	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) ason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) leutral Test (D5)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is regimer Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Vegetated Concave Surface Veget	quired; check all that apply)	Secondary Surfac Draina Dry-Se Satura Roots (C3) Stunte Geomo Stunte Geomo Microto FAC-N	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) frim Lines (B16) eason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is re 	quired; check all that apply)	Secondary Surfac Draina Dry-Se Satura Roots (C3) Stunte Geomo Stunte Geomo Microto FAC-N	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) ason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) leutral Test (D5)
Depth (inches):	quired; check all that apply)	Secondary Surfac Draina Dry-Se Satura Roots (C3) Stunte Geomo Stunte Geomo Microto FAC-N	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) ason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) leutral Test (D5)
Depth (inches):	quired; check all that apply)	Secondary Surfac Draina Dry-Se Satura Roots (C3) Stunte Geomo Stunte Geomo Microto FAC-N	Indicators (minimum of two required) e Soil Cracks (B6) ge Patterns (B10) Trim Lines (B16) ason Water Table (C2) tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) leutral Test (D5)

U B

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

WETLAND DE	LINEATION	DATA FORM -	- NOVA SCOTIA
Project/Site: Ruck luint	_Municipality/Col	unty: Ougsh	Sampling Date: Aug. 19/10
Applicant/Owner:			Sampling Point: しんパーレク
Investigator(s): S. Star H.7	Affilia	ation: And	ec.
Landform (hillslope, terrace, etc.): H: 1/ S/cpt	10	Local relief	(concave, convex, none): Non Micky
Slope (%): 25 Lat: 045303	Long	5012	398 Datum: 1140 83
Soil Map Unit Name/Type:		We	etland Type: Crp land
Are climatic / hydrologic conditions on the site typical for thi	is time of year? `		
Are Vegetation, Soil, or Hydrology		-	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	»	Is the Sampled	l Area
Hydric Soil Present? Yes N	10	within a Wetlar	nd? Yes <u>No</u>
Wetland Hydrology Present? Yes N	No	If yes, optional V	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a se	parate report.)	•	
VEGETATION – Use scientific names of plants	-		
Tree Stratum (Plot size: 10 m)		minant Indicator	Dominance Test worksheet:
1. ACRE AUGUN	<u>% Cover</u> Spe	<u>status</u> FAC	Number of Dominant Species
2. Pierce Aleriance		< ENCL	That Are OBL, FACW, or FAC: (A)
3. Lurix homeinen	- <u>-</u>		Total Number of Dominant
4. Abids by/samen		Z TAC	Species Across All Strata: (B)
5.		<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: (CCC) (A/B)
	<u></u> = To	tal Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1. (tibichum pichum		FAL	Total % Cover of:Multiply by:
2. AMenopen thes marcoremente	- 15 - 1	$\leq 64c$	OBL species $x_1 = Z_1$
3. Gray 10 bein buica Ata		- रम्ट	FACW species $\underline{14}$ x2 = $\underline{18}$
4. Pilling maring		Itcie	FAC species $45$ x3 = $126$
5. Lurix luralina		<u> </u>	FACU species $4 = 2c$
Herb Stratum (Plot size: (	<del>ک ن_</del> = To	tal Cover	UPL species $x 5 =$ Column Totals: $5374$ (A) $/46$ (B)
1. Kulmain angustifelion	15 -	FAC	
2. Lillian arranton dium	15	< EAU	Prevalence index = $B/A = \frac{d}{2}$
3. COMPUS CHARCEMASIG	<u> </u>	= FAC	Hydrophytic Vegetation Indicators:
4. Vaccinium engrat: teljum	<u> </u>	FAL	Rapid Test for Hydrophytic Vegetation
5. Cale magager & conaderasis		FACIL	Dominance Test is >50%
6. Change clapping Caly colorta		<u> </u>	Prevalence Index is ≤3.0 <sup>1</sup>
7. Brachen Him		FACI	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10	<u>4(,</u> = To	tal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic
2			Vegetation Present? Yes No
	= To	tal Cover	NO
Remarks: (Include photo numbers here or on a separate	sheet.)		

Depth	iption: (Describe Matrix			ox Features					,	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup> L	OC2	Texture		Remarks	
0-14	Blen 1C-						Orginic_	ne	ber lie	here ce
			······						1,	
Hydric Soil Ir		bletion, RM=Re			r Coated S	and Grain	Indicators fo	r Problem	•	
Histosol (		-	Sandy Redo					airie Redo		
	ipedon (A2)	-	Polyvalue B		(S8)				r Peat (S3)	
Black His	• •	-	Thin Dark S						asses (F12)	
	Sulfide (A4)	-	Loamy Gley	•	2)				in Soils (F19	)
	Layers (A5)	-	Depleted M	· /				ent Materia		
	Below Dark Surfac		Redox Dark				Other (E:	xplain in R	emarks)	
	rk Surface (A12)		Depleted Date							
	ucky Mineral (S1)	-	Redox Depi	ressions (F8)						
Sandy GI	eyed Matrix (S4)									
	hydrophytic vegeta		id hydrology mu	ist be present	t, unless dis	sturbed or	problematic.			
Q	ayer (if observed)									
Type:(	IN MRC									
Type:	10 Nr. C.	<u> </u>	-				Hvdric Soil P	resent?	Yes	No
Type:( Depth (inc Remarks:	<u>101 RRC</u> hes): <u>14 C in</u> /	1					Hydric Soil P	resent?	Yes	No
Depth (inc Remarks:	hes): <u>(4 ( in</u> /	Δ					Hydric Soil P	resent?	Yes	_ No
Depth (inc Remarks: YDROLO(	hes): <u>(4 ( un/</u> 37	1								
Depth (inc Remarks: YDROLO( Wetland Hyd	hes): <u>(4 ( m/</u> GY rology Indicators	<u></u>					Secondary	Indicators	s (minimum d	No
Depth (inc Remarks: YDROLO( Wetland Hyd Primary Indica	hes): <u>14 ( m/</u> BY rology Indicators ators (minimum of	<u></u>	check all that a				Secondary	Indicators	s (minimum n cks (B6)	
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V	hes): <u>(4 ( m/</u> GY rology Indicators ators (minimum of water (A1)	<u></u>	check all that a	ained Leaves	(B9)		Secondary	Indicators se Soil Cra age Patterr	s (minimum icks (B6) ns (B10)	
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V	hes): <u>14 ( m/</u> BY rology Indicators ators (minimum of	<u></u>	check all that a		(B9)		Secondary	Indicators	s (minimum icks (B6) ns (B10)	
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V	GY rology Indicators ators (minimum of Water (A1) er Table (A2)	<u></u>	<u>check all that a</u> Water-St Aquatic F	ained Leaves	(B9)		Secondary Surfac Draina Moss	<u>r Indicators</u> se Soil Cra age Pattern Trim Lines	s (minimum icks (B6) ns (B10)	of two require
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V High Wat	BY rology Indicators ators (minimum of Vater (A1) ter Table (A2) n (A3)	<u></u>	Water-St Aquatic F Marl Dep	ained Leaves Fauna (B13)	. ,		Secondary Surfac Draina Moss Dry-S	<u>e Indicators</u> se Soil Cra age Pattern Trim Lines eason Wat	<u>s (minimum</u> cks (B6) ns (B10) s (B16) ter Table (C:	of two require
Depth (inc Remarks: YDROLO( Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma	BY rology Indicators ators (minimum of Vater (A1) ter Table (A2) n (A3)	<u></u>	Water-St Water-St Aquatic F Marl Dep Hydrogen	ained Leaves Fauna (B13) Posits (B15)	r (C1)		Secondary Surfac Draina Moss Dry-S Satura	<u>Indicators</u> se Soil Cra age Patteri Trim Lines eason Wal ation Visibl	<u>s (minimum</u> cks (B6) ns (B10) s (B16) ter Table (C:	of two require 2) magery (C9)
Depth (inc Remarks: YDROLOO Wetland Hyd Primary Indic: Surface V High Wat Saturatio Water Ma Sedimen	GY rology Indicators ators (minimum of a Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)	<u></u>	Water-St Water-St Aquatic F Marl Dep Hydroger Oxidized	ained Leaves Fauna (B13) osits (B15) n Sulfide Odor Rhizospheres	r (C1) s on Living		Secondar, Surfac Draina Noss Noss Dry-S Satura 3)Sturte	<u>Indicators</u> se Soil Cra age Patten Trim Lines eason Wat ation Visibled or Stres	s (minimum icks (B6) ns (B10) ter Table (C: e on Aerial I sed Plants (	of two require 2) magery (C9)
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sedimen Drift Dep	GY rology Indicators ators (minimum of Water (A1) ther Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	<u></u>	Water-St Water-St Aquatic F Marl Dep Hydroger Oxidized Presence	ained Leaves Fauna (B13) osits (B15) n Sulfide Odor Rhizospheres of Reduced	r (C1) s on Living Iron (C4)	Roots (C3	Secondary Surfac Draina Moss Dry-S Satura 3) Stunte Geom	<u>Indicators</u> se Soil Cra age Patterr Trim Lines eason Wat ation Visibl ad or Stres orphic Pos	s (minimum r cks (B6) ns (B10) ter Table (C e on Aerial I sed Plants ( sition (D2)	of two require 2) magery (C9)
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Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo	GY rology Indicators ators (minimum of Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	one is required;	<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leaves Fauna (B13) Iosits (B15) In Sulfide Odor Rhizospheres of Reduced Fon Reduction ck Surface (C7	r (C1) s on Living Iron (C4) i in Tilled So 7)	Roots (C3	Secondary Surface Draina Moss Dry-S Satura Sturte Geom Shallo Microl	<u>e Indicators</u> se Soil Cra age Pattern Trim Lines eason Wal ation Visibl ad or Stres orphic Pos w Aquitara opographi	s (minimum f cks (B6) ns (B10) s (B16) ter Table (C: sed Plants ( sed Plants ( sition (D2) d (D3) c Relief (D4	of two require 2) magery (C9) D1)
Depth (inc Remarks: YDROLOC Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Saturatio Unift Dep Algal Mat Iron Depo Inundatio	Arks (B1) to Crust (B4) cosits (B5) and Crust (B4) cosits (B5) and Visible on Aerial	cone is required;	Water-St Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent In Thin Muc Other (Et	ained Leaves Fauna (B13) osits (B15) n Sulfide Odor Rhizospheres of Reduced ron Reduction	r (C1) s on Living Iron (C4) i in Tilled So 7)	Roots (C3	Secondary Surface Draina Moss Dry-S Satura Sturte Geom Shallo Microl	<u>Indicators</u> se Soil Cra age Pattern Trim Lines eason Wal ation Visible d or Stres orphic Pos w Aquitaro	s (minimum f cks (B6) ns (B10) s (B16) ter Table (C: sed Plants ( sed Plants ( sition (D2) d (D3) c Relief (D4	of two require 2) magery (C9) D1)
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## Freshwater Wetland Data Sheet: W#2

Date: <u>AIR 3////)</u> Investigator(s): Scott Burley/<u>M. SemSem</u> Weather: <u>Son My</u> Topographic Sheet: <u>\_\_\_\_</u> Aerial Photo Number: <u>\_\_\_\_</u>

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_\_ 2.Bog(BO) \_\_\_\_\_ 3.Fen (FE) X

Wetland Class: 1.Open water \_\_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_

4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water 2.Non-vegetated OW X 3. Floating leaved OW  $\underline{\times}$ 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_\_ 6.Vegetated deep marsh 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_\_\_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded <u>X</u> - Murg 2.Saturated <u>X</u> - Fm

<u>Water Depth:</u> 1.0-5 cm <u>X</u> Function 2.5-20 cm <u>3.20-50 cm</u> Wetland Atlas Number : \_\_\_\_\_\_45 GIS Map / Stand No. : <u>C. 45356//</u> Wetland Form<sup>1</sup>:: <u>EwerGernet Marsh</u>/Shoub beg Wetland size: \_\_\_\_\_ha Associated Watercourse: \_\_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_\_\_\_

19.Floating leaved SM \_\_\_ 20.Rooted floating leaved SM \_\_\_\_\_ 21.Non-vegetated SM \_\_\_\_\_ 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow 25.Ungrazed M 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_\_ 34.Shrubby B 35.0pen B \_\_\_\_\_ 36. Fen X\_\_\_

3.Seasonally flooded \_\_\_\_\_

4.50-100 cm \_\_\_\_\_\_\_\_\_ 5.>100 cm \_\_\_\_\_\_\_\_ pord - Mush

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type:

1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above _ <u>X</u>
Percent Vegetation Cover:         1.> 95%          2.76-95% in peripheral band       X         3.76-96% in patches          4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site:         1.Lacustrine         2.Riverine         3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1. Deciduous trees 290 Ally ruhsum 2. Coniferous trees 1090 > White Spruce Film 3. Dead trees 590 4. Tall shrubs 5. Low shrubs 1590 Marice gate Chanker 6. Dead shrubs	_
6.Dead shrubs 7.Herbs 8.Mosses 30% 9.Narrow-leaved emergents 40% - EAuflor w 10.Broad-leaved emergents - 11.Robust emergents 50% - Typl-a 12.Free-floating plants 13.Floating plants (rooted) 2% - Kord 11/7 14.Submerged plants 15. Other	Carrod, Scirpus
Interspersion: 1.Minimal 2.Low _X 3.Medi	um 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Ponch & Beach trich with four flows in Wildlife: (Observation/Signs/Reports) Bragen flog Public forg Nucle Frog Adjacent Wildlife habitat (%):	Nto. Sustace Drainage Channerk in het

Page 2

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k

2.Forest \_\_\_\_\_\_ 6.River 3.Dykelands \_\_\_\_ 7. Other \_\_\_\_\_ 4.Mudflats **Description:** Surrounding Land Use %: 1 Agriculture 7.Residential 2.Forestry 8.Waste Disposal 3 Recreation 9.Scientific Research 4.Industrial 10.Trapping 5. Urban development \_\_\_\_ 11.Education 6.Transportation 12.Seasonal resident Description: None Description: Roads and/or tracks: 1.Private road adjacent 4.DOT road within 2.DOT road adjacent 5.Vehicle tracks 3. Private road within 6.Other \_\_\_\_ Description: ATU Truck along beach cortles we flowed Existing Uses of Wetlands: 1.Economic use (e.g. farming) 4.Education & public awareness 2.Recreational activities 5. None evident\_<u>/</u> 3.Aesthetics Potential Threats: Special Features:

5.Beach 2090

1.Rare wetland type \_\_\_\_\_ 2.Rare animal or plant species \_\_\_\_\_ 3.Habitat of rare species  $\underline{\chi}$ 

Description: Puturtia /

4.Nesting site for colonial water birds  $\underline{\times}$ 5.Migration stop-over site  $\underline{\times}$ 

6. None evident

Notes:

1.Salt marsh

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WETLAND DEI		ATA FORM -	- NOVA SCOTIA
Project/Site: Nack Puint	Municipality/Cou	nty: Guy 5	Sampling Date: Aug. 20/14
Applicant/Owner: Vulcen			Sampling Point: <u>LL</u> -UP/
	Affilia		
Landform (hillslope, terrace, etc.):			
Slope (%): 1907 Lat: 045378	Long:	_501 4	<u>41,1,8</u> patum: <u>MAD &amp; 3</u>
Soil Map Unit Name/Type: Revek/and			tland Type:Sugamp
Are climatic / hydrologic conditions on the site typical for this	time of year? Y	'es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly distur	bed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n	aturally problema	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	o o	Is the Sampled within a Wetlan	Area
VEGETATION – Use scientific names of plants.		.:	
Tree Stratum (Plot sjze: ////////////////////////////////////		ninant Indicator cies? Status	Dominance Test worksheet:
1. Abien har fame.			Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2			
3			Total Number of Dominant Species Across All Strata:(B)
4	·		Percent of Dominant Species
5			That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum, (Plot size: $50^{10}$ )	<u></u> = Tot	al Cover	Prevalence Index worksheet:
1. Alexandres Auconstills	200 /	/ FAC	Total % Cover of: Multiply by:
2. Lalonia Crock St folice	TO J	FAC	OBL species $15$ $x_1 = 15$
3. Pille mariana	730	FAC	FACW species x 2 =
4.	·		FAC species 69 x3 = 201
5			FACU species x 4 =
Herb Stratum (Plot size:/m)	<u></u> = Tol	al Cover	UPL species $x 5 = $
1 CAYER bris gena	11.7	< C2R/	Column Totals: <u>64</u> (A) <u>35</u> (B)
2. Grand Grand Herrin Lispicherten	5	T FAC	Prevalence Index = B/A =
3. APC : A HAMMAN AT Federam	5	CRL	Hydrophytic Vegetation Indicators:
4. CONTUS CONCELLOUS 5	3	<u> </u>	Rapid Test for Hydrophytic Vegetation
	·		Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9	·		
10	<u>∂-;}-</u> = Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	·		Hydrophytic
2			Vegetation Present? Yes No
		al Cover	
Remarks: (Include photo numbers here or on a separate s	sheet.)		

Depth	Matrix	···	eded to docu	ox Features						
(inches) Colo	(moist)	% 0	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
y-40+							chon:	, Re	ent.	
	1						<u></u>	<u> </u>		
							·			
	<u> </u>									
-										
			· · · · · · · · · · · · · · · · · · ·							
									· · · · · · · · · · · · · · · · · · ·	
Type: C=Concentrat		on, RM=Red	luced Matrix, C	S=Covered	or Coate	d Sand G	Frains. <sup>2</sup> Lo	ocation: PL	=Pore Lining, M=	Matrix.
Hydric Soil Indicator	s:						Indicator	s for Probl	ematic Hydric S	oils':
Histosol (A1)			_ Sandy Red					t Prairie Re	· · ·	
Histic Epipedon (/	42)	_	_ Polyvalue B			•			t or Peat (S3)	
Black Histic (A3)	/ <b>*</b> / <b>*</b>		_ Thin Dark S	• • •					Masses (F12)	
Hydrogen Sulfide		_	_ Loamy Gley		F2)				lain Soils (F19)	
Stratified Layers ( Depleted Below I			_ Depleted M Baday Dade		(C)			Parent Mate	• •	
Depleted Below L Thick Dark Surface	•	<u> </u>	Redox Dark Depleted Da	•	•			r (Explain in	Remarks)	
Sandy Mucky Mir		_	_ Redox Depi							
Sandy Gleyed Ma		-			5)					
						ec.				
<sup>3</sup> Indicators of hydroph	ytic vegetation	and wetland	d hydrology mu	ust be prese	ent, unless	s disturbe	d or problemat	tic.		
Restrictive Layer (if	hserved):									
Resultave Layer (II	oboci reaj.									
Type:										/
Туре:	-	55					Hydric So	il Present?	Yes	No
Type: Depth (inches):	-	52	-				Hydric So	il Present?	Yes	No
Туре:	-	2					Hydric So	il Present?	Yes	No
Type: Depth (inches):	-	5	-				Hydric So	il Present?	Yes	No
Type: Depth (inches):	-						Hydric So	il Present?	Yes	No
Type: Depth (inches):	-	5					Hydric So	il Present?	Yes	No
Type: Depth (inches): Remarks:	-	<u>, , , , , , , , , , , , , , , , , , , </u>					Hydric So	il Present?	Yes	No
Type: Depth (inches):		<u></u>							Yes	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I	ndicators:						Second	dary Indicat	ors (minimum of f	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m	ndicators: nimum of one		check all that a		es (B9)		Second	dary Indicat	ors (minimum of f Cracks (B6)	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A	ndicators: nimum of one 1)		<u>check all that a</u>	ained Leav	• •		<u>Second</u> Su Dr	dary Indicat urface Soil C rainage Patt	ors (minimum of 1 Cracks (B6) erns (B10)	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table	ndicators: nimum of one 1)		<u>check all that a</u> Water-St Aquatic F	ained Leav Fauna (B13	)		<u>Second</u> Su Dr Mo	dary Indicat Irface Soil C rainage Patt oss Trim Lin	ors (minimum of f Cracks (B6) erns (B10) es (B16)	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table & Saturation (A3)	ndicators: nimum of one 1) (A2)		<u>check all that a</u> Water-St Aquatic F Marl Dep	ained Leave Fauna (B13 posits (B15)	)		<u>Second</u> Su Dr Ma Dr	dary Indicat urface Soil C ainage Patt oss Trim Lin y-Season V	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table & Saturation (A3) Water Marks (B1)	ndicators: nimum of one 1) (A2)		check all that a Water-St Aquatic F Marl Dep Hydrogen	ained Leave Fauna (B13 posits (B15) n Sulfide Od	) dor (C1)		<u>Second</u> Su Dr Mr Dr Sa	dary Indicat urface Soil C ainage Patt oss Trim Lin y-Season V aturation Vis	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima	wo required
Type: Depth (inches): Remarks: <b>YDROLOGY</b> <b>Wetland Hydrology I</b> Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposi	ndicators: nimum of one 1) (A2) is (B2)		<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized	ained Leave Fauna (B13 posits (B15) n Sulfide Oo Rhizosphe	) dor (C1) res on Liv	-	<u>Second</u> Su Dr Na Dr Sa s (C3)St	dary Indicati urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima essed Plants (D1	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A Surface Water Table Saturation (A3) Water Marks (B1 Sediment Deposi Drift Deposits (B3	ndicators: nimum of one 1) (A2) ts (B2)		<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized Presence	ained Leave Fauna (B13 posits (B15) n Sulfide Oe Rhizosphe e of Reduce	) dor (C1) res on Liv ed Iron (C4	4)	<u>Second</u> Su Dr Dr Sa s (C3)St Ge	dary Indicat Irface Soil C rainage Patt oss Trim Lin y-Season V aturation Vis unted or Str eomorphic F	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) lible on Aerial Ima ressed Plants (D1 Position (D2)	wo required
Type: Depth (inches): Remarks: Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposi Drift Deposits (B3 Algal Mat or Crus	ndicators: nimum of one 1) (A2) is (B2) i) t (B4)		<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent fr	ained Leave Fauna (B13 posits (B15) n Sulfide Oo Rhizosphe e of Reduce ron Reducti	) res on Liv ed Iron (C4 on in Tille	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 36)St	dary Indicat Irface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str somorphic F nallow Aquit	ors (minimum of 1 Cracks (B6) erns (B10) les (B16) Vater Table (C2) lible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A Surface Water Table Saturation (A3) Water Marks (B1 Sediment Deposi Drift Deposits (B3	ndicators: nimum of one 1) (A2) is (B2) i) t (B4)		<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent fr	ained Leave Fauna (B13 posits (B15) n Sulfide Oe Rhizosphe e of Reduce	) res on Liv ed Iron (C4 on in Tille	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 36)St	dary Indicat Irface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str somorphic F nallow Aquit	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) lible on Aerial Ima ressed Plants (D1 Position (D2)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima	is required; gery (B7)	<u>check all that a</u> Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent fr	ained Leave Fauna (B13 posits (B15) n Sulfide Od Rhizosphe e of Reduce ron Reducti ck Surface (	) res on Liv ed Iron (C4 on in Tille (C7)	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 26)St Ga	dary Indicat Irface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str somorphic F nallow Aquit	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima	is required; gery (B7)	<u>check all that a</u> Water-St Aquatic F Marl Dep Tydroger Oxidized Presence Recent Ir Thin Muc	ained Leave Fauna (B13 posits (B15) n Sulfide Od Rhizosphe e of Reduce ron Reducti ck Surface (	) res on Liv ed Iron (C4 on in Tille (C7)	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 26)St Ga	dary Indicate Inface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str auted or Str aomorphic F nallow Aquit icrotopograp	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima	is required; gery (B7)	<u>check all that a</u> Water-St Aquatic F Marl Dep Tydroger Oxidized Presence Recent Ir Thin Muc	ained Leave Fauna (B13 posits (B15) n Sulfide Od Rhizosphe e of Reduce ron Reducti ck Surface (	) res on Liv ed Iron (C4 on in Tille (C7)	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 26)St Ga	dary Indicate Inface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str auted or Str aomorphic F nallow Aquit icrotopograp	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposi Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetat	ndicators: nimum of one 1) (A2) ts (B2) t (B4) ) e on Aerial Ima ed Concave St	is required; gery (B7)	check all that a Water-St Aquatic F Marl Dep Hydroger Oxidized Presence Recent in Thin Muc	ained Leave Fauna (B13 posits (B15) n Sulfide Od Rhizosphe e of Reduce ron Reducti ck Surface (	) res on Liv ed Iron (C4 on in Tille (C7)	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 26)St Ga	dary Indicate Inface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str auted or Str aomorphic F nallow Aquit icrotopograp	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (m Surface Water (A Surface Water (A Surface Water Table Saturation (A3) Water Marks (B1 Saturation (A3) Water Marks (B1 Sediment Deposi Sediment Deposits (B3 Sediment Deposits (B3 Iron Deposits (B5 Iron Deposits (B5 Iron Deposits (B5 Iron Deposits (B5 Iron Deposits (B5 Iron Deposits (B5 Iron Deposits (B5 	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima ed Concave Si it? Yes	is required; gery (B7) urface (B8)	check all that a Water-St Aquatic F Marl Dep Mydroger Oxidized Presence Recent In Thin Muc Other (E:	ained Leave Fauna (B13 posits (B15) in Sulfide Oo Rhizosphe e of Reduce ron Reduceti ck Surface ( xplain in Re	) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) marks)	4)	<u>Second</u> Su Dr Ma Dr Sa s (C3)St Ga 26)St Ga	dary Indicate Inface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str auted or Str aomorphic F nallow Aquit icrotopograp	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B3 Inundation Visible Sparsely Vegetat Field Observations: Surface Water Present?	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima ed Concave St t? Yes Yes	is required; gery (B7) urface (B8)	check all that a Water-St Aquatic F Marl Dep Aydroger Oxidized Presence Recent Ir Chin Muc Other (E: Depth (i	ained Leave Fauna (B13 posits (B15) in Sulfide Od Rhizosphe e of Reduce on Reducti ck Surface ( xplain in Re nches): nches):	) res on Liv ed Iron (C4 on in Tille (C7) marks)	4) d Soils (C	Second Second Sub Dr Ma Dr Ma Sa Sa C(C3) St Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indicat urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str eomorphic F hallow Aquit icrotopograp AC-Neutral	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4) Fest (D5)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A Surface Water Table Saturation (A3) Water Marks (B1 Saturation (A3) Water Marks (B1 Saturation (A3) Sediment Deposits (B3 Nater Marks (B1 Sediment Deposits (B3 Sediment Deposits (B3 Nater Marks (B1 Sediment Deposits (B3 	ndicators: nimum of one 1) (A2) ts (B2) t (B4) ) e on Aerial Ima ed Concave Si t? Yes Yes	gery (B7) urface (B8)	check all that a Water-St Aquatic F Marl Dep Aydroger Oxidized Presence Recent Ir Chin Muc Other (E: Depth (i	ained Leave Fauna (B13 posits (B15) in Sulfide Oo Rhizosphe e of Reduce ron Reduceti ck Surface ( xplain in Re	) res on Liv ed Iron (C4 on in Tille (C7) marks)	4) d Soils (C	Second Second Sub Dr Ma Dr Ma Sa Sa C(C3) St Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indicat urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str eomorphic F hallow Aquit icrotopograp AC-Neutral	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4)	wo required
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology I Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B3 Inundation Visible Sparsely Vegetat Field Observations: Surface Water Present?	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima ed Concave Su it? Yes Yes Yes ge)	gery (B7) urface (B8) No No No	check all that a Water-St Aquatic F Marl Dep Mydroger Oxidized Presence Recent In Thin Muc Other (E: Depth (i Depth (i	ained Leave Fauna (B13 posits (B15) in Sulfide Oc Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) marks)	4) d Soils (C	Second	dary Indicat urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str eomorphic F hallow Aquit icrotopograp AC-Neutral	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4) Fest (D5)	wo required
Type: Depth (inches): Remarks: Primary Indicators (m 	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima ed Concave Su it? Yes Yes Yes ge)	gery (B7) urface (B8) No No No	check all that a Water-St Aquatic F Marl Dep Mydroger Oxidized Presence Recent In Thin Muc Other (E: Depth (i Depth (i	ained Leave Fauna (B13 posits (B15) in Sulfide Oc Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) marks)	4) d Soils (C	Second	dary Indicat urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str eomorphic F hallow Aquit icrotopograp AC-Neutral	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4) Fest (D5)	wo required
Type: Depth (inches): Remarks: Primary Indicators (m 	ndicators: nimum of one 1) (A2) is (B2) i) t (B4) ) e on Aerial Ima ed Concave Su it? Yes Yes Yes ge)	gery (B7) urface (B8) No No No	check all that a Water-St Aquatic F Marl Dep Mydroger Oxidized Presence Recent In Thin Muc Other (E: Depth (i Depth (i	ained Leave Fauna (B13 posits (B15) in Sulfide Oc Rhizosphe e of Reduce ron Reducti ck Surface ( xplain in Re nches): nches):	) dor (C1) res on Liv ed Iron (C4 on in Tille (C7) marks)	4) d Soils (C	Second	dary Indicat urface Soil C rainage Patt oss Trim Lin y-Season W aturation Vis unted or Str eomorphic F hallow Aquit icrotopograp AC-Neutral	ors (minimum of f Cracks (B6) erns (B10) les (B16) Vater Table (C2) ible on Aerial Ima ressed Plants (D1 Position (D2) ard (D3) ohic Relief (D4) Fest (D5)	wo required

WETLAND DELIN		ATA FORM -	NOVA SCOTIA
Project/Site: Skilc Reint Mu	nicipality/Cou	ntv: Grad	sampling Date: Aug 20/14
Applicant/Owner: Vulcim	ino panyi oca		Sampling Point: 442-491
Investigator(s): <u>S. Buck</u>	Affilia	tion: AME	<u> </u>
Landform (hillslope, terrace, etc.): HillSupe		Local relief (	(concave, convex, none): <u>Hirmmore long</u>
Slope (%): 1020 Lat: 645 373	Long:	50741	14 Datum: Noth 83
Soil Map Unit Name/Type: Cor Kland		Wet	tland Type:
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Y	es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sign	ificantly distur	bed? Are "!	Normal Circumstances" present? Yes W
Are Vegetation, Soil, or Hydrology natu	rally problema	atic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		Is the Sampled within a Wetlan	
Wetland Hydrology Present? Yes No		lf yes, optional W	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a separa	ite report.)		
Naturally regenerating Ferre	st.		
VEGETATION - Use scientific names of plants.			
	bsolute Don Cover Spe	ninant Indicator cies? Status	Dominance Test worksheet:
1. Alies Balsanca 2	2090 1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. Bloula PLAT Sitera	1190 -	EACV	Total Number of Dominant 7
3. fille ANGS: conc.	240-	FACU/	Species Across All Strata: (B)
4			Percent of Dominant Species
5	2) - Tet	al Cover	That Are OBL, FACW, or FAC: 8(a) (A/B)
Sapling/Shrub Stratum (Plot size: 10/00/00)		al Cover	Prevalence Index worksheet:
1. An. 18 hallander 1	10 0	EAC.	Total % Cover of: Multiply by:
2. Colopic opquest. telia	$\frac{20}{2}$	EAC	OBL species x1 =
3. Sparlows determine -	10	Z FAC	FACW species $x^2 = 4$
4			FAC species $43 = 536$
D		al Cover	FACU species x4 = UPL species x5 =
Herb Stratum (Plot size: _/(M_))	<u> </u>		Column Totals: $(A) = (B)$
2. Ausalic AuchiCoulis	10	FAC	Prevalence Index = $B/A = 3.0$
3. Twichtelig boralis	2	FAC	Hydrophytic Vegetation Indicators:
4. Cover drisperma	Z	COBL	Rapid Test for Hydrophytic Vegetation
5			Cominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
Woody Vine Stratum         (Plot size:)	44_ = Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation
		al Cover	Present? Yes <u>/ No</u>
Remarks: (Include photo numbers here or on a separate she	et.)		

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

Depths Ma			ocument the indicator	or comm	i the absence o	i indicators.)
Depthern Ma	trix	Color (moist	Redox Features	Loc <sup>2</sup>	Texture	Remarks
2-10						
10-17 2.5YK	2 =11	16.000			5.14	
10-17 0.0 1x	_4/	0090			VIA ICE	
<u> </u>						
	10 m					
						New DL-Deve Living Methods
<sup>1</sup> Type: C=Concentration, E Hydric Soil Indicators:	-Depletion, r	KM=Reduced Math	(, CS=Covered of Coa	ed Sand Gr		tion: PL=Pore Lining, M=Matrix.
Histosol (A1)		Sandy R	edox (S5)			rairie Redox (A16)
Histic Epipedon (A2)			e Below Surface (S8)	1		icky Peat or Peat (S3)
Black Histic (A3)			k Surface (S9)			nganese Masses (F12)
Hydrogen Sulfide (A4)			Bleyed Matrix (F2)			nt Floodplain Soils (F19)
Stratified Layers (A5)		Depleted			Red Par	ent Material (TF2)
Depleted Below Dark S			ark Surface (F6)		Other (E	xplain in Remarks)
Thick Dark Surface (A			Dark Surface (F7)			
Sandy Mucky Mineral ( Sandy Gleyed Matrix ()		Redox L	epressions (F8)			
Oandy Oleyed Matrix (	54)			•		
<sup>3</sup> Indicators of hydrophytic v	egetation and	d wetland hydrology	must be present, unle	ss disturbed	l or problematic.	
Restrictive Layer (if obse	rved):		·			
Туре:						
Depth (inches): Remarks:					Hydric Soil P	resent? Yes No
Depth (inches): Remarks:					Hydric Soil P	resent? Yes No
Depth (inches): Remarks:			5		Hydric Soil P	resent? Yes No
Depth (inches): Remarks:						resent? Yes No
Depth (inches): Remarks: iYDROLOGY	ators:	equired; check all th	at apply)		Secondar	
Depth (inches): Remarks: iYDROLOGY Wetland Hydrology Indica	ators:		at apply) -Stained Leaves (B9)		Secondar	y Indicators (minimum of two require
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimu	ators: m of one is re	Water			<u>Secondar</u> Surfa Drain	y Indicators (minimum of two require ce Soil Cracks (B6)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1)	ators: m of one is re	Water Aquat	-Stained Leaves (B9)		<u>Secondar</u> Surfa Drain Moss	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimu Surface Water (A1) High Water Table (A2)	ators: m of one is re	Water Aquat Mari [	-Stained Leaves (B9) ic Fauna (B13)		Secondar Surfa Drain Moss Dry-S	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16)
Depth (inches): Remarks: <b>iYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2	ators: m of one is re	Water Aquat Mari [ Hydro Oxidiz	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ced Rhizospheres on L	•	Secondar Surfa Drain Moss Dry-S Satur	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ators: m of one is re	Water Aquat Mari [ Hydro Oxidiz Prese	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) zed Rhizospheres on L ince of Reduced Iron ((	24)	Secondar Surfa Drain Moss Dry-S Satur (C3)Stunt Geon	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2)
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Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicat Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ators: m of one is re	Water Aquat Mari [ Hydro Oxidiz Prese Recer Thin M	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ced Rhizospheres on L ince of Reduced Iron (C int Iron Reduction in Till Muck Surface (C7)	24)	Secondar Surfa Drain Noss Noss Satur (C3)Saturt (C3)Stunt Geon 6)Shalk	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	ators: m of one is re ?) verial Imagery	Water Aquat Mari [ Hydro Oxidiz Prese Recen (B7) Other	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ed Rhizospheres on L ince of Reduced Iron (C nt Iron Reduction in Till	24)	Secondar Surfa Drain Noss Noss Satur (C3)Saturt (C3)Stunt Geon 6)Shalk	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) pw Aquitard (D3)
Depth (inches): Remarks: <b>iYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimu</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	ators: m of one is re ?) verial Imagery	Water Aquat Mari [ Hydro Oxidiz Prese Recen (B7) Other	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ced Rhizospheres on L ince of Reduced Iron (C int Iron Reduction in Till Muck Surface (C7)	24)	Secondar Surfa Drain Noss Noss Satur (C3)Saturt (C3)Stunt Geon 6)Shalk	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4)
Depth (inches): Remarks: <b>iYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimu</u> 	ators: m of one is re ?) verial Imagen oncave Surfa	Water Aquat Mari 1 Word Oxidiz Prese Recer Thin M y (B7) Other ce (B8)	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ed Rhizospheres on L ince of Reduced Iron (C int Iron Reduction in Till Muck Surface (C7) (Explain in Remarks)	C4) ed Soils (C6	Secondar Surfa Drain Noss Noss Satur (C3)Saturt (C3)Stunt Geon 6)Shalk	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) eason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4)
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Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present?	ators: m of one is re ?) Aerial Imageny oncave Surfac Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ced Rhizospheres on L nice of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks) h (inches):	24) ed Soils (C(	Secondar Surfa Drain Moss Dry-S Satur (C3) Stunt Geon 5) Shallo FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4) Neutral Test (D5)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ators: m of one is re ?) Aerial Imageny oncave Surfac Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) igen Sulfide Odor (C1) ced Rhizospheres on L ince of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks)	24) ed Soils (C(	Secondar Surfa Drain Moss Dry-S Satur (C3) Stunt Geon 5) Shallo FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) bw Aquitard (D3) topographic Relief (D4)
Depth (inches): Remarks: <b>iYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimu</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on A Sparsety Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ators: m of one is re ?) verial Imagery oncave Surfac Yes Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ced Rhizospheres on L nice of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks) h (inches):	24) ed Soils (C(	Secondar Surfa Drain Dry-S Satur (C3)Stunt Geon 6)Shalle Giron FAC- land Hydrology	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4) Neutral Test (D5)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ators: m of one is re ?) verial Imagery oncave Surfac Yes Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ced Rhizospheres on L nice of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks) h (inches):	24) ed Soils (C(	Secondar Surfa Drain Dry-S Satur (C3)Stunt Geon 6)Shalle Giron FAC- land Hydrology	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4) Neutral Test (D5)
Depth (inches): Remarks: <b>iYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimu</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co <b>Field Observations:</b> Surface Water Present? Water Table Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (so	ators: m of one is re ?) verial Imagery oncave Surfac Yes Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ced Rhizospheres on L nice of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks) h (inches):	24) ed Soils (C(	Secondar Surfa Drain Dry-S Satur (C3)Stunt Geon 6)Shalle Giron FAC- land Hydrology	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4) Neutral Test (D5)
Depth (inches): Remarks: <b>iYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimu</u> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on A Sparsety Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ators: m of one is re ?) verial Imagery oncave Surfac Yes Yes Yes	Water Aquat Marl [ Hydro Oxidiz Prese Recer Thin M y (B7) Other ce (B8) No Dept No Dept No Dept	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) ced Rhizospheres on L nice of Reduced Iron (C nt Iron Reduction in Till Muck Surface (C7) (Explain in Remarks) h (inches):	24) ed Soils (C(	Secondar Surfa Drain Dry-S Satur (C3)Stunt Geon 6)Shalle Giron FAC- land Hydrology	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Trim Lines (B16) leason Water Table (C2) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) topographic Relief (D4) Neutral Test (D5)

# Freshwater Wetland Data Sheet: 61 # 3

<u>Wetland Type</u>: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_ 2.Bog(BO) \_\_\_\_ 3.Fen (FE) \_X

Wetland Class: 1.Open water \_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh

4.Seasonally flooded flats

Wetland Subclass:

1.Vegetated open water \_\_\_\_ 2 Non-vegetated OW \_\_\_\_ 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM \_\_\_\_ 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM \_\_\_\_\_ 17.Narrow leaved SM \_\_\_\_\_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_ 4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_\_\_\_ 9.Fair X 19.Floating leaved SM \_\_\_\_

20.Rooted floating leaved SM 21.Non-vegetated SM \_\_\_\_\_ 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow 25.Ungrazed M 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_\_ 34.Shrubby B 35.Open B \_\_\_\_\_ 36. For X

3.Seasonally flooded \_\_\_\_\_

Water Depth:

1.0-5 cm \_\_\_\_\_ 2.5-20 cm \_\_\_\_\_ 3.20-50 cm \_\_\_\_\_

4.50-100 cm	
5.>100 cm	

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type:

	1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the aboveX_
	Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
	Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
	Vegetation Types (%): 1. Deciduous trees 5% - Aur rubtum 2. Coniferous trees 10% - Aur rubtum 3. Dead trees - 4. Tall shrubs - 2% Alous The 5. Low shrubs - 5% Aronica 6. Dead shrubs - 7. Herbs 10% 8. Mosses 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) - 14. Submerged plants - 15. Other - 15% - OS Murda Cincomed	rum, Rhyncherspore abe, cert
	Interspersion: 1.Minimal X 2.Low 3.Mediu	
	<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
	<u>Hydrological Classification:</u> 1.Surface water depression 2.Ground water depression	3.Surface water slope $\underline{\times}$ 4.Ground water slope $\underline{}$
Lotic	Inlets/Outlets/water bodies: Through Alcow <u>Wildlife:</u> (Observation/Signs/Reports)	
	Bull Frig	

Page 2

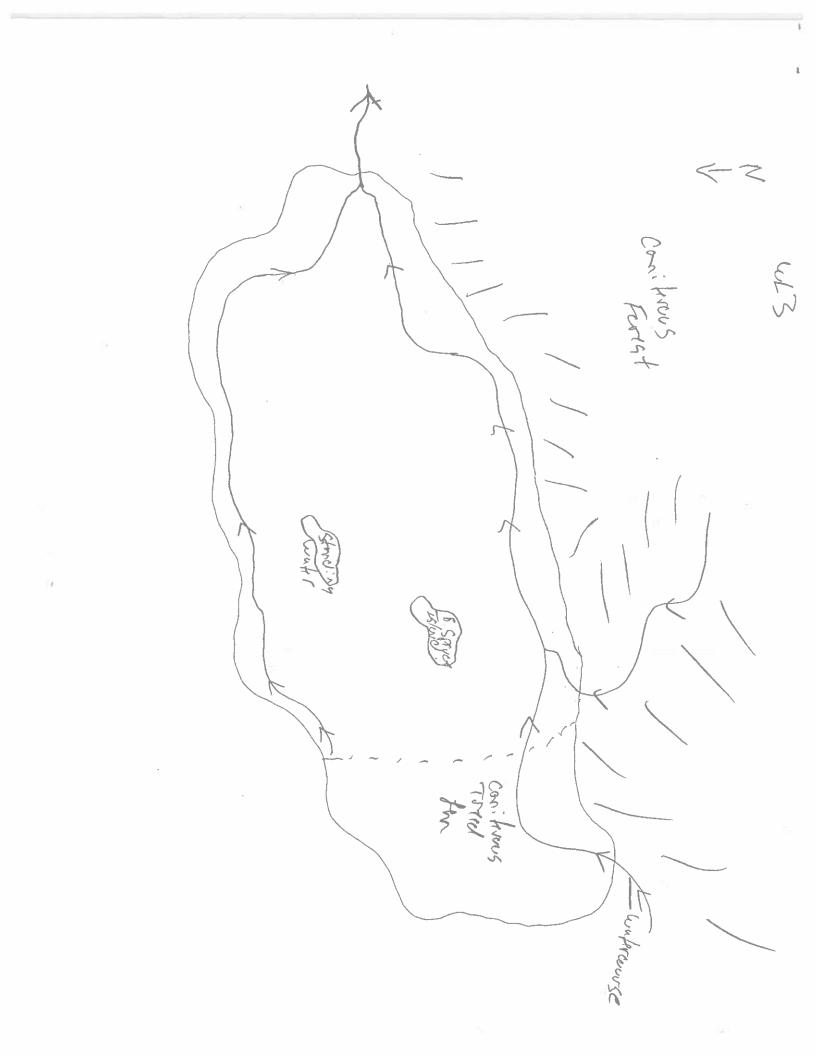
i.

Page 3

1.Salt marsh 2.Forest _ <u>/() 0</u> 7 0 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other
Description:	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation Description: Conce	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Disturbance: 1.Low X 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other #
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident_ <u>&lt;</u>
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species Description: Pottontial	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
<u>Notes</u> :	

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		N DATA FORM -	,
Project/Site: Black Paint	_ Municipality/	County: Garage	Shewingh Sampling Date: July /201
Applicant/Owner: UVIC V		,	Sampling Point: Which - UPI
Investigator(s):	A	filiation: AMC	<sup>12</sup> C
			(concave, convex, none): <u>Seen the march</u>
Slope (%): Lat: 645147	Lo	sng: 50240	038 Datum: <u>NAN 83</u>
Soil Map Unit Name/Type: Rec Climpt		We	tland Type:
Are climatic / hydrologic conditions on the site typical for th	is time of year	? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly di	sturbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally probl	ematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sa	ampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	
	No	within a Wetlan	
Wetland Hydrology Present? Yes I Remarks: (Explain alternative procedures here or in a se			Vetland Site ID:
Remarks. (Explain alternative procedures here or in a se	parate report.)		
VEGETATION – Use scientific names of plants			
		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species? Status	Number of Dominant Species
1		1	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3 4			Species Across All Strata: (B)
5.			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	=	Total Cover	
Sapling/Shrub Stratum (Plot size:)	0.0		Prevalence Index worksheet:
1. Pitte masima		I FALL	Total % Cover of: Multiply by: OBL species X 1 = / <u>()</u>
2. Lariz faritire			FACW species $2c$ $x^2 = 40$
4			FAC species $\underline{LU}$ x3 = $\underline{GO}$
5			FACU species x 4 =
	<u>40</u> =	Total Cover	UPL species x 5 =
Herb Stratum, (Plot size:)	~	A/	Column Totals: <u>50</u> (A) <u>(10</u> (B)
1. Arthus Allhogi			Prevalence Index = B/A = 2-2
3			Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Ominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7		[	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10			Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	=	rotal Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
		Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

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Depth	Matrix	Re	dox Feature	es			
(inches)	Color (moist)	% Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
C-Hot.						Crsm.2	-Da-+
Type: C=Cor	ncentration, D=Deplet	tion, RM=Reduced Matrix,	CS=Covere	d or Coate	d Sand G	Frains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
lydric Soil Ir							for Problematic Hydric Soils <sup>3</sup> :
K Histosol (	,	Sandy Red					Prairie Redox (A16)
Histic Epi		Polyvalue					ucky Peat or Peat (S3)
Black His		Thin Dark					anganese Masses (F12)
Hydrogen			yed Matrix	(F2)			ont Floodplain Soils (F19)
	Layers (A5) Below Dark Surface (	A11) Redox Dar					irent Material (TF2) Explain in Remarks)
	k Surface (A12)	· · <u> </u>	ark Surface (	•			Explain in Remarks)
	ucky Mineral (S1)	Redox Dep		· · ·			
	eyed Matrix (S4)		(,	-,			
		n and wetland hydrology m	ust be pres	ent, unless	disturbed	d or problematic.	
Restrictive La	ayer (if observed):						
Туре:							
Depth (inch	nes):					Hydric Soil I	Present? Yes No
Remarks:							
					-		
YDROLOG							
•	ology Indicators:						ry Indicators (minimum of two require
		is required; check all that		_			ace Soil Cracks (B6)
Surface W		Water-S		• •			nage Patterns (B10)
K High Wate		Aquatic					s Trim Lines (B16)
	• •						S 1967 11 11 11 11
🔀 Saturation	i (A3) rks (B1)	Marl De	oosits (B15) n Sulfide O				Season Water Table (C2) ration Visible on Aerial Imagery ()

- Hydrogen Sulfide Odor (C1)
   Saturation Visible on Aerial Imag
   Oxidized Rhizospheres on Living Roots (C3)
   Stunted or Stressed Plants (D1)
  - \_\_\_\_ Geomorphic Position (D2)
  - \_\_\_\_ Shallow Aquitard (D3)
  - \_\_\_\_ Microtopographic Relief (D4)

Inundation Visible on Ae	rial Imagery (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Sparsely Vegetated Con	cave Surface (B8)	
Field Observations:		
Surface Water Present?	Yes No K Depth (inches):	
Water Table Present?	Yes 🥢 No Depth (inches):	-
Saturation Present? (includes capillary fringe)	Yes No Depth (inches):0	_ Wetland Hydrology Present? Yes No
Describe Recorded Data (stre	eam gauge, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:		
3		

Presence of Reduced Iron (C4)

\_\_\_\_ Thin Muck Surface (C7)

Recent Iron Reduction in Tilled Soils (C6)

Sediment Deposits (B2)

\_\_\_\_ Drift Deposits (B3)

\_\_\_ Iron Deposits (B5)

\_\_\_\_ Algal Mat or Crust (B4)

WETLAND DE		DATA FORM -	- NOVA SCOTIA
Project/Site: Ricck Point	Municipality/Co	unty: GILYS	haven be sampling Date: Aug. 20/10
Applicant/Owner: Vulcan			Sampling Point: 425. 401
	Affilia	ation: AME	<sup>1</sup> C
Landform (hillslope, terrace, etc.): Hillslupe		Local relief (	(concave, convex, none): Homm MGC/CM
Slope (%): 25 Lat: 645146	Łong	501 4	1032 Datum: NrAD 83
Soil Map Unit Name/Type:			tiand Type: uplanch opton ferrist
Are climatic / hydrologic conditions on the site typical for thi			
Are Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology i			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	npling point lo	cations transects important features etc
	10,	1	
Hydrophytic Vegetation Present? Yes N		Is the Sampled within a Wetlan	
Hydric Soil Present?     Yes N       Wetland Hydrology Present?     Yes N			
Remarks: (Explain alternative procedures here or in a set		If yes, optional V	Vetland Site ID:
VEGETATION - Use scientific names of plants			
Tree_Stratum (Plot size: _/ U /)		minant Indicator	Dominance Test worksheet:
		<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:
2. ACHShakaMa			
3		<u></u>	Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	<u>35</u> =To	tal Cover	
Sapling/Shrub Stratum (Plot size: <u>1</u> , <u>1</u> )	30 .	1 Ac	Prevalence Index worksheet: Total % Cover of:Multiply by:
2 Flig Wisticalette		FACW	Total % Cover of: Multiply by: OBL species x 1 =
3.		<u> </u>	FACW species $20$ $x^2 = 40$
4			FAC species $\cancel{RS}$ x3 = $\cancel{Z55}$
5			FACU species x 4 =
	<u>50</u> = To	tal Cover	UPL species x 5 =
Herb Stratum (Plot size: /Un ) 1. D.C. Acro Haning Comediansis	12	1 70	Column Totals: <u>105</u> (A) <u>265</u> (B)
2. Triantelis horealis			Prevalence Index = B/A = 2 - 6
3. Marcin up With Giden	<u> </u>	Z FAC	Hydrophytic Vegetation Indicators:
4	>		Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10	20		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u>20</u> = To	tal Cover	be present, unless disturbed or problematic.
1/			Hydrophytic
2			Vegetation
		tal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)		· · · · · · · · · · · · · · · · · · ·

Depth	Matrix			nent the indica x Features							
	or (moist)	% (	Color (moist)	% Tvi	noe <sup>1</sup> i	oc <sup>2</sup>	Texture			Remarks	
3-15	·						Oflon		$\lambda \cdot \Lambda$	l	
	1111							C	10-17		
2-37 21	-4/(	<u> 100 _</u>					Scall	-2114	~		
										4	
1000	·										
19 M											
Type: C=Concentra		tion, RM≖Re	duced Matrix, CS	S=Covered or C	Coated S	and G	rains. <sup>2</sup> l	Location	: PL=Po	re Lining, M	1=Matrix.
ydric Soil Indicat	ors:						Indicato	ors for P	roblema	tic Hydric	Soils <sup>3</sup> :
Histosol (A1)		_	_ Sandy Redox	(S5)			Coa	ast Prairi	e Redox	(A16)	
Histic Epipedon		-		low Surface (S	68)					Peat (S3)	
Black Histic (A3)		-	Thin Dark Su					_		sses (F12)	
Hydrogen Sulfid		-		d Matrix (F2)					-	Soils (F19)	
Stratified Layers	• •		Depleted Mai Depleted Mai						Material		
Depleted Below Thick Dark Surf		(A11) _	_ Redox Dark : Depleted Dark	• •	、 、		Oth	er (Expla	ain in Re	marks)	
Thick Dark Surf Sandy Mucky M		-	_ Depleted Dal Redox Depre	rk Surface (F7)	}						
Sandy Gleyed N		-	_ Redux Depre	SSIONS (FO)							
					*						
Туре:	7.2		-								
Depth (inches): _	ZZen	1	-				Hydric S	ioil Pres	ent?	ſes	. No
Depth (inches): _	ZZen	1	-				Hydric S	ioil Pres	ent? '	res	. No
Depth (inches):	Zzen	<u>n 1</u>			8		Hydric S	ioil Pres	ent?	res	. No <u> </u>
Depth (inches):	Vien	n	-		6		Hydric S	ioil Pres	ent?	Yes	. No
Depth (inches): _	Zzen	1	- 		ő		Hydric S	ioil Pres	ent? '	res	No
Depth (inches): _ Remarks: YDROLOGY	•	n	- - 		^						No
Depth (inches): _ Remarks: YDROLOGY Wetland Hydrology	· Indicators:		- - check all that ar		ò		Seco	ndary In	dicators	(minimum o	
Depth (inches): _ Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r	Indicators:				39)		<u>Seco</u>	ndary Ind	dicators Soil Crac	( <u>minimum o</u> ks (B6)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r Surface Water (	Indicators: ninimum of on A1)		C Water-Sta	ined Leaves (B	39)		<u>Seco</u> S	ndary In Surface S Drainage	dicators Soil Crac Patterns	( <u>minimum o</u> ks (B6) \$ (B10)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab	Indicators: ninimum of on A1)		Water-Sta	ined Leaves (B auna (B13)	39)		<u>Seco</u> S	ndary In Surface S Drainage Moss Trir	dicators Soil Crac Patterns n Lines (	( <u>minimum o</u> ks (B6) s (B10) (B16)	f two required
Depth (inches): _ Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3)	Indicators: ninimum of on A1) le (A2)		Water-Sta Aquatic Fa	ined Leaves (B auna (B13) sits (B15)	,		<u>Seco</u> S S S	ndary Ind Surface S Drainage Moss Trin Dry-Seas	dicators Soil Crac Patterns n Lines ( son Wate	(minimum o ks (B6) ; (B10) ;B16) r Table (C2	f two required
Depth (inches): _ Remarks: YDROLOGY Wetland Hydrology Primary Indicators (I Surface Water ( High Water Tab Saturation (A3) Water Marks (B	r Indicators: ninimum of on A1) Ie (A2) 1)		Water-Sta Aquatic Fa Marl Depo Hydrogen	ined Leaves (B auna (B13) sits (B15) Sulfide Odor (C	C1)	Boote	<u>Seco</u> S S S	ndary In Surface S Drainage Moss Trin Dry-Seas Saturatio	dicators Soil Crac Patterns n Lines i son Wate n Visible	(minimum o ks (B6) s (B10) B16) r Table (C2 on Aerial Ir	f two required
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r Surface Water (a High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (B	r Indicators: ninimum of on A1) le (A2) 1) sits (B2) 33)		Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence	ined Leaves (B auna (B13) isits (B15) Sulfide Odor (C Rhizospheres o of Reduced Iro	C1) on Living on (C4)		<u>Seco</u> S C N C (C3)S	ndary Ind Surface S Drainage Moss Trin Dry-Seas Saturatio Stunted o Geomorp	dicators Soil Crac Patterns n Lines ( son Wate n Visible or Stress hhic Posi	(minimum o ks (B6) s (B10) B16) r Table (C2 on Aerial Ir ed Plants (D tion (D2)	f two required
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Primary Indicators (r Surface Water (a High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (B Algal Mat or Cru	r Indicators: ninimum of on A1) le (A2) 1) sits (B2) 33) ust (B4)		Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro	ined Leaves (B auna (B13) sits (B15) Sulfide Odor (C Rhizospheres o of Reduced Iro n Reduction in	C1) on Living on (C4)		Seco S S S (C3)S S	ndary In Surface S Drainage Moss Trin Dry-Seas Saturatio Stunted o Stunted o Stanted o Stanted o Stanted o	dicators Soil Crac Patterns n Lines ( con Wate n Visible or Stress shic Posi Aquitard	(minimum o ks (B6) s (B10) B16) r Table (C2 on Aerial Ir ed Plants (C tion (D2) (D3)	f two required ) nagery (C9) D1)
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## Freshwater Wetland Data Sheet: WL

Date: <u>Hvg .3///0</u> Investigator(s): Scott Burley/\_\_\_\_\_ Weather: <u>Supp</u>\_\_\_\_\_ Topographic Sheet: \_\_\_\_\_\_ Aerial Photo Number: \_\_\_\_\_\_

 Wetland Type:

 1.Aquatic bed/unconsolidated bottom (AB)

 2.Bog(BO)
 \_\_\_\_\_

 3.Fen (FE)
 \_\_\_\_\_\_

Wetland Class: 1.Open water \_\_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW \_ 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM \_\_\_\_\_ 11.Rooted floating leaved DM \_\_\_\_\_ 12.Robust DM 13.Narrow-leaved DM \_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM \_\_\_\_ 17.Narrow leaved SM 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_

<u>Water Depth:</u> 1.0-5 cm \_\_\_<u>X\_</u> 2.5-20 cm \_\_\_\_\_

é

3.20-50 cm \_\_\_\_\_

Wetland Atlas Number : \_\_\_\_\_ GIS Map / Stand No. : Wetland Form<sup>1</sup>:: <u>\_\_\_\_\_\_</u> Wetland size: <u>\_\_\_\_\_ha</u> Associated Watercourse: <u>\_\_\_\_</u>

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_X\_\_

19.Floating leaved SM 20.Rooted floating leaved SM \_\_\_\_\_ 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow \_\_\_\_\_ 25.Ungrazed M 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS \_\_\_\_ 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog 34.Shrubby B 35.Open B

3.Seasonally flooded \_\_\_\_\_

4.50-100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type:

1.Beaver Pond	3.Ducks Unlimited Impoundment
2.Man-made Impoundment	4. None of the above
Percent Vegetation Cover: 1.> 95%	5.26-75% in patches
	•
2.76-95% in peripheral band	6. 5-25% in peripheral band
3.76-96% in patches	7. 5-25% in patches
4.26-75% in peripheral band	8.< 5%
Wetland Site:	
1.Lacustrine	4.Isolated
2.Riverine	5.Deltaic
3.Palustrine <u>k</u>	
Vegetation Types (%):	
1.Deciduous trees —	
2. Coniferous trees 4590 - Pile Marine	-
3. Dead trees 550 4. Tall shrubs 1000 Alaus Encone, Menuper	- Hur
5.Low shrubs -	11/7 2
	<u></u> <
6.Dead shrubs ~	
7. Herbs 590 - Mingon Memin tritel	
8. Mosses (40% - 5 phagnuss	-
9. Narrow-leaved emergents 530 Corex drist	20m Cm
10.Broad-leaved emergents	_
11.Robust emergents -	_
12.Free-floating plants	_
13.Floating plants (rooted)	
14.Submerged plants —	
15. Other 🖌	
Interspersion: 1. Minimal $\chi$ 2. Low 3. Mediu	im 4.High
Conductivity: N/A	<u>pH</u> : N/A
<u>Alkalinity</u> : N/A	
Underlassing Classification	
Hydrological Classification:	2 Outford water close
1.Surface water depression	3.Surface water slope
2.Ground water depression	4.Ground water slope
Inlets/Outlets/water bodies:	7
Inters/Outlets/water bodies.	
Underground draining e channel	I North silk racting ( roome autoral
Wildlife: (Observation/Pigne/Denote)	Q North side leading Teroene out then Beg
<u>·····································</u>	/ /
None charvel	

#### Adjacent Wildlife habitat (%):

Page 2

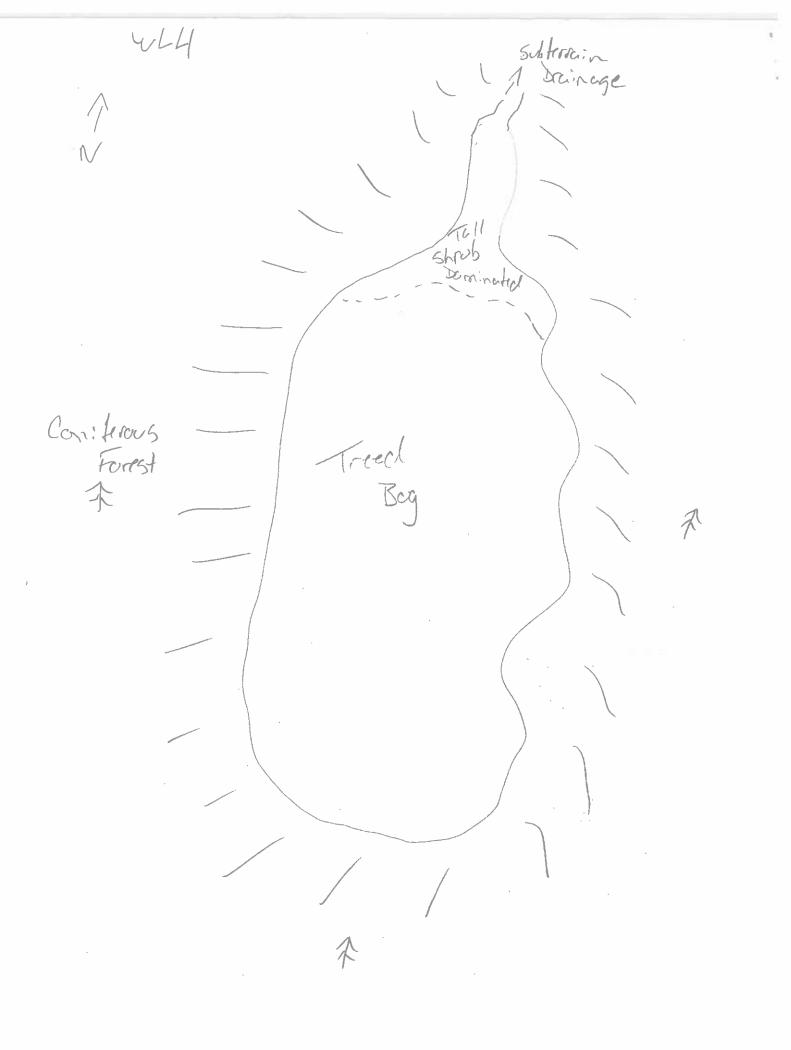
ic.

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1.Salt marsh 5.Beach 6.River \_\_\_\_\_ 2.Forest /00/20 3.Dykelands \_\_\_\_ 7. Other 4.Mudflats Description: Con: fercus Forest Surrounding Land Use %: 1 Agriculture 7.Residential 8.Waste Disposal 2.Forestry \_\_\_\_\_ 3 Recreation \_\_\_\_\_ 9.Scientific Research 4.Industrial 10.Trapping 5.Urban development \_\_\_\_ 11.Education 6.Transportation 12.Seasonal resident Description: Norce Disturbance: 1.Low X 2.Moderate 3.High Description: Roads and/or tracks: 1.Private road adjacent 4.DOT road within \_\_\_\_\_ 2.DOT road adjacent 5.Vehicle tracks 3. Private road within 6.Other \_\_\_\_ Description: Nort Existing Uses of Wetlands: 1.Economic use (e.g. farming) \_\_\_\_ 4.Education & public awareness 2.Recreational activities 5. None evident X 3.Aesthetics Potential Threats: Special Features: 1.Rare wetland type \_\_\_\_ 4.Nesting site for colonial water birds 2.Rare animal or plant species 5.Migration stop-over site \_\_\_\_\_ 3.Habitat of rare species  $\underline{X}$ 6. None evident Description: Potential

Notes:

ł



WETLAND DE	LINEATION D	ATA FORM -	NOVA SCOTIA
Project/Site: Saclabar	Municipality/Cou	nty: _ (71/15/	barring Date: Acc 20/14
Applicant/Owner: [/i/c/c-			Sampling Point:
Investigator(s): <u>S. Burler</u>	Affilia		
Landform (hillslope, terrace, etc.):	54	Local relief (	(concave, convex, none): <u>ALMM&amp;C(C7</u>
Slope (%): 290 Lat: 645 104	Long:	5014	LIG Datum: AMA EB
Soil Map Unit Name/Type: Recklund		We	tland Type: Treed Beg
Are climatic / hydrologic conditions on the site typical for this	s time of year? Y	es <u>i</u> No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly distur	bed? Are "I	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	aturally problema	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	plina point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? YesN Hydric Soil Present? YesN	o o o	Is the Sampled within a Wetlan	Area
VEGETATION – Use scientific names of plants.			
Tree Stratum (Plot size: _/Um)		ninant Indicator cies? Status	Dominance Test worksheet:
1. Villes Aleringe	<u>4547</u>		Number of Dominant Species
2			
3			Total Number of Dominant
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 500		al Cover	Prevalence Index worksheet:
1. Venepentis nucronate	5_	FAC	Total % Cover of: Multiply by:
2. Vic PC/ ADC.F. CANG	1590 -	< ERC	OBL species $G_{1} = 65$
3. Ledyn yoren leveligun	5	- FACUL	FACW species $x_2 = 0$
4. Kalonin englisti teliun		EAC	FAC species $54 \times 3 = 56$
5	27 = Tot		FACU species x 4 =
Herb Stratum (Plot size:)	= lot	al Cover	UPL species $x = \frac{x = 1}{23}$ (B)
1. Cover trispense	4090	$\underline{\langle \underline{c} \underline{k} \underline{l}  }$	
2. Mainantenan trifelia	2150-	$\angle csL$	Prevalence Index = B/A = 2311.9
3			Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50% Prevalence Index is ≤3.0 <sup>1</sup>
67			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			Indiantam of buddle coll and continued budgets and
Woody Vine Stratum (Plot size:)	<u>65</u> = Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
		al Cover	
Remarks: (Include photo numbers here or on a separate a	sneet.)		

Tome Description. (	Describe to the dep	th needed to document the indicator or co	onfirm the absence of indicators.)
Depth	Matrix	Redox Features	
1	(moist) %	Color (moist) % Type <sup>1</sup> Lo	
<u>y-40+</u>			_ arenic Klat
			10 M TA 10 M TA
	· · · · · · · · · · · · · · · · · · ·		1.000
	D-Dopietion DM:		and Crains <sup>2</sup> I cratics: BI = Data Lining Methodativ
Hydric Soil Indicators		=Reduced Matrix, CS=Covered or Coated Sa	and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	•	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A)	2)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	-,	Thin Dark Surface (S9)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (	A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A		Depleted Matrix (F3)	Red Parent Material (TF2)
Depleted Below Da	-	Redox Dark Surface (F6)	Other (Explain in Remarks)
Thick Dark Surface	e (A12)	Depleted Dark Surface (F7)	
Sandy Mucky Mine		Redox Depressions (F8)	
Sandy Gleyed Mat	rix (S4)		
Restrictive Layer (if o	bserved):		
Restrictive Layer (if o		etland hydrology must be preseñt, unless dis	
Turner			
Depth (inches):			Hydric Soil Present? Yes No
Depth (inches): Remarks:		а. Х. Эжэ	Hydric Soil Present? Yes No
Depth (inches): Remarks: YDROLOGY	31 17	2	
Depth (inches): Remarks:	31 17	2	Hydric Soil Present? Yes No
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In	dicators:	ired; check all that apply)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In	dicators: imum of one is requi		Secondary Indicators (minimum of two requ
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table (	dicators: imum of one is requi	ired; check ali that apply)	Secondary Indicators (minimum of two requ
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1	dicators: imum of one is requi	ired: check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two required in the second and the second area in the se
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1)	dicators: imum of one is requi ) (A2)	ired; check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3)	dicators: imum of one is requi ) (A2)	ired: check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1)	dicators: imum of one is requi ) (A2) : (B2)	ired; check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits	dicators: imum of one is requi ) (A2) : (B2)	ired; check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	dicators: imum of one is requi ) (A2) (B2) (B4)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	dicators: imum of one is requi ) (A2) : (B2)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	Secondary Indicators (minimum of two required)         Surface Soil Cracks (B6)         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (CRoots (C3)         Stunted or Stressed Plants (D1)         Geomorphic Position (D2)         Dils (C6)       Shallow Aquitard (D3)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	dicators: imum of one is requi ) (A2) (B2) (B4)	ired: check ali that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living I — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled So — Thin Muck Surface (C7) 7) — Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	dicators: imum of one is requi ) (A2) (B2) (B4) on Aerial Imagery (B	ired: check ali that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living I — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled So — Thin Muck Surface (C7) 7) — Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min 	dicators: imum of one is requi ) (A2) : (B2) (B4) on Aerial Imagery (B d Concave Surface (	ired: check ali that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living I — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled So — Thin Muck Surface (C7) 7) — Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations:	dicators: imum of one is requi ) (A2) : (B2) (B4) on Aerial Imagery (B d Concave Surface (	ired; check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Marl Deposits (B15) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres on Living I — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled So — Thin Muck Surface (C7) 7) — Other (Explain in Remarks) B8)	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min 	dicators: imum of one is requi ) (A2) (B2) (B4) on Aerial Imagery (B d Concave Surface ( ? Yes Yes	ired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Other (Explain in Remarks) B8) No Depth (inches): X & X & X & X & X & X & X & X & X	Secondary Indicators (minimum of two required)
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Magal Mat or Crust Iron Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? Saturation Present? Saturation Present?	dicators: imum of one is requi (A2) (B2) (B4) on Aerial Imagery (B d Concave Surface ( ? Yes Yes Yes Yes Yes	ired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Other (Explain in Remarks) B8) No Depth (inches): X & X & X & X & X & X & X & X & X	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Magal Mat or Crust Iron Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? Saturation Present? Saturation Present?	dicators: imum of one is requi (A2) (B2) (B4) on Aerial Imagery (B d Concave Surface ( ? Yes Yes Yes Yes Yes	ired; check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Other (Explain in Remarks) B8) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Magal Mat or Crust Iron Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? Saturation Present? Saturation Present?	dicators: imum of one is requi (A2) (B2) (B4) on Aerial Imagery (B d Concave Surface ( ? Yes Yes Yes Yes Yes	ired; check ali that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Aydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Other (Explain in Remarks) B8) No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required)

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Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

WETLAND DEL	INEATION	DATA FORM -	NOVA SCOTIA
Project/Site: Black Point	Municipality/Co	ounty: Group	Shewershing Date: July 2011 Sampling Point: Lub 4-61P1
Applicant/Owner: <u>//// ///</u>		· · · · · · · · · · · · · · · · · · ·	Sampling Point: LL4-L1P
Investigator(s):	Affili	iation:AME	<u> </u>
Landform (hillslope, terrace, etc.):		Local relief (	(concave, convex, none): Alammer las
Slope (%): 5 Lat: 645041			
Soil Map Unit Name/Type:		Wei	tland Type: Uployed
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrology si		-	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing san	nolina point lo	cations, transects, important features, etc.
	ino ning our		
Hydrophytic Vegetation Present? Yes No		Is the Sampled	
Hydric Soil Present? Yes No		within a Wetlan	
Wetland Hydrology Present? Yes No		If yes, optional V	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a sepa	arate report.)		
VEGETATION – Use scientific names of plants.			
	Absolute De	minant Indicator	Dominance Test worksheet:
		ecies? Status	Number of Dominant Species
1. Pierre mariana	30 _	- Fite W	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata:(B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	<u> 30</u> = To	otal Cover	Prevalence Index worksheet:
1. Pierle mentione	15	/ EALW/	Total % Cover of: Multiply by:
2. Ahires he Benner		FAC	OBL species x 1 =
3. Nameson thes meconytes		/ FAL	FACW species $\underline{H5}$ x2 = $\underline{9c}$
4			FAC species $25$ x 3 = $75$
5			FACU species x 4 =
Herb Stratum (Plot size:)	<u>)</u> - To	otal Cover	UPL species x 5 =
	5	/ ORI	Column Totals: 75 (A) 170 (B)
2. Culmic ingestitie		/ Eile	Prevalence Index = $B/A = 2 - 3$
3			Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%
6			frevalence Index is ≤3.0 <sup>1</sup>
7		[	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8		I	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9		i	
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	_ <u>_</u> = To	otal Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation
	= To	1	Present? Yes No
Remarks: (Include photo numbers here or on a separate sh	neet.)		

Promo occomption: (Deo	onse to the dept	h needed to document the	e indicator o	r contirm	the absence	of indicators.)
	atrix	Redox Featur			-	
(inches) Color (moi			Type <sup>1</sup>		Texture	Remarks
<u>0-15cm</u>					C.Jon i	DUTT
15-24 25 YR	H1 100				<u>Sil+</u>	
1	•				10	
·	·	·			<u> </u>	• • • • • • • • • • • • • • • • • • •
Type: C=Concentration, D	=Depletion, RM=	Reduced Matrix, CS=Cover	ed or Coated	Sand Gra	ains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S5)			Coast f	Prairie Redox (A16)
Histic Epipedon (A2)		Polyvalue Below Surf	ace (S8)		5 cm M	ucky Peat or Peat (S3)
Black Histic (A3)		Thin Dark Surface (S	,			anganese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix	: (F2)			ont Floodplain Soils (F19)
Stratified Layers (A5)		Depleted Matrix (F3)	(50)			arent Material (TF2)
Depleted Below Dark S Thick Dark Surface (A1	, ,	Redox Dark Surface (	· ·		Other (	Explain in Remarks)
Thick Dark Surface (A1 Sandy Mucky Mineral (	,	<ul> <li>Depleted Dark Surface</li> <li>Redox Depressions (</li> </ul>	1 1			
Sandy Mucky Milleral ( Sandy Gleyed Matrix (S		Redux Depressions (	FO)			
	54)					
Indicators of hydrophytic ve	egetation and wet	land hydrology must be pres	sent, unless	disturbed	or problematic	-
Restrictive Layer (if obser					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Type: Gerlout	IC .					
Type: <u>Beclaur</u> Depth (inches): 24					Hvdric Soil	Present? Yes No f
Depth (inches): 24					Hydric Soil	Present? Yes No
					Hydric Soil	Present? Yes No
Depth (inches): 24					Hydric Soil	Present? Yes No
Depth (inches): 24					Hydric Soil	Present? Yes No
Depth (inches): <u>24</u> Remarks:					∣ Hydric Soil ∣	Present? Yes No
Depth (inches): 24					Hydric Soil	Present? Yes <u>No</u>
Depth (inches): <u>24</u> Remarks:						Present? Yes No
Depth (inches): <u>24</u> Remarks: YDROLOGY	tvn tors:	ed; check all that apply)			Seconda	
Depth (inches): <u>24</u> Remarks: YDROLOGY Wetland Hydrology Indica	tvn tors:	ed: check all that apply)	ves (B9)		<u>Seconda</u>	ry Indicators (minimum of two require
Depth (inches): 24 Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimur	tvn tors:		. ,		Seconda Surfa Drair	ry Indicators (minimum of two require ace Soil Cracks (B6) nage Patterns (B10)
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1)	tvn tors:	Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B15	3)		Seconda Surfa Drair Moss Dry-3	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	tors: n of one is require	Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B15 Hydrogen Sulfide C	3) i) )dor (C1)	a Roots (	Seconda Surfa Drair Moss Dry-3 Satu	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	tors: n of one is require	Water-Stained Lea Aquatic Fauna (B13 Marl Deposits (B15 Hydrogen Sulfide C Cxidized Rhizosph	3) i) Ddor (C1) eres on Livin		Seconda Surfa Drair Nosa Dry-3 Satu C3)Stun	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)
Depth (inches):24 Remarks: YDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	tors: n of one is require	Water-Stained Lea Aquatic Fauna (B1: Marl Deposits (B15 Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc	3) i) Odor (C1) eres on Livin ced Iron (C4)		Seconda Surfa Drair Drair Moss Dry-5 Satu C3) Stun Geor	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2)
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Depth (inches):24 Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Coor ield Observations: Surface Water Present? Saturation Present?	tors: n of one is require ) erial Imagery (B7 ncave Surface (B Yes N Yes N	Water-Stained Lear     Aquatic Fauna (B1)     Marl Deposits (B15     Hydrogen Sulfide C     Oxidized Rhizosphe     Presence of Reduce     Recent Iron Reduce     Thin Muck Surface     Other (Explain in R 8)     Depth (inches):	3) Ddor (C1) eres on Livin ced Iron (C4) tion in Tilled (C7) temarks)	Soils (C6)	Seconda Surfa Drair Dry-3 Dry-3 Dry-3 Satu C3) Stun Geor Shall Micro FAC	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3) otopographic Relief (D4)
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Depth (inches):24 Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Coo ield Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	tors: n of one is require n of one is require ) ) Yes N Yes N Yes N	Water-Stained Lear     Aquatic Fauna (B1)     Marl Deposits (B15     Hydrogen Sulfide C     Oxidized Rhizosphe     Presence of Reduce     Recent Iron Reduce     Thin Muck Surface     Other (Explain in R 8)  o Depth (inches): o Depth (inches): o Depth (inches):	3) Ddor (C1) eres on Livin :ed Iron (C4) tion in Tilled (C7) (emarks)	Soils (C6)	Seconda Seconda Surfa Drair Moss Dry Satu C3) Stun Geor Shall Micro FAC- nd Hydrology	ry Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) morphic Position (D2) low Aquitard (D3) otopographic Relief (D4) -Neutral Test (D5)

## Freshwater Wetland Data Sheet: 025

Date: <u>Spt.1//0</u> Investigator(s): Scott Burley/\_\_\_\_\_ Weather: <u>Summary</u>\_\_\_\_\_ Topographic Sheet: \_\_\_\_\_\_ Aerial Photo Number: \_\_\_\_\_\_

 Wetland Type:

 1.Aquatic bed/unconsolidated bottom (AB)

 2.Bog(BO)

 3.Fen (FE)

Wetland Class: 1.Open water \_\_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh 16.Robust SM 17.Narrow leaved SM \_\_\_\_\_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_X\_\_\_

<u>Water Depth:</u> 1.0-5 cm <u>×</u> 2.5-20 cm <u>× ≥ in Chann//s</u> 3.20-50 cm \_\_\_\_ Wetland Atlas Number : \_\_\_\_\_ GIS Map / Stand No. : Wetland Form<sup>1</sup>:: <u>Lotic Fon</u> Wetland size: <u>ha</u> Associated Watercourse: \_\_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_\_\_\_\_ F\_\_\_\_ X

19.Floating leaved SM \_ 20.Rooted floating leaved SM 21.Non-vegetated SM 22 Emergent seasonally flooded flats \_\_\_\_\_ 23.Shrubby SFF 24.Grazed meadow \_\_\_\_\_ 25.Ungrazed M 26.Sedge M 27.Sapling shrub swamp 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_\_ 34.Shrubby B 35.Open B \_\_\_\_\_ Felk X

3.Seasonally flooded \_\_\_\_\_

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type:

	I.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
1 2 3	Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
1	<u>Wetland Site:</u> I.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
	Vegetation Types (%): 1. Deciduous trees 2% - Acre Subrum 2. Coniferous trees 2% - Acre Subrum 3. Dead trees 2% 4. Tall shrubs 5% - Almus meme, 17, 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	n vaccinion macsocoopon
	Conductivity: N/A Alkalinity: N/A	<u>pH</u> : N/A
	Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
	Inlets/Outlets/water bodies: Storan Through flow from Enst	-> Wist
( P	Wildlife: (Observation/Signs/Reports)	
wood	Ercq Adjacent Wildlife habitat (%):	
-		

Page 2

 $\mathbf{b}_{i}$ 

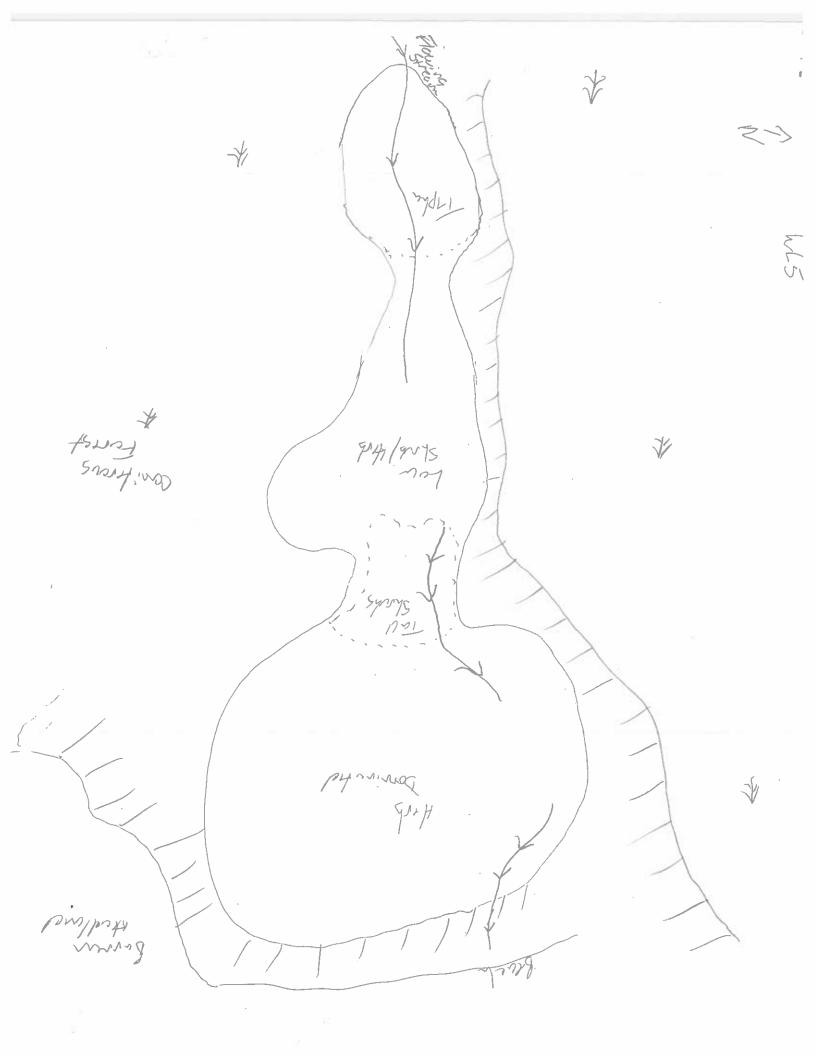
1.Salt marsh 2.Forest <u>らっ</u> 3.Dykelands 4.Mudflats	5.Beach <u>55</u> 6.River 7. Other <u>55</u> – Baroln Hadlond
Description:	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: NMM	
Disturbance: 1.Low 2.Moderate 3.High	
Description:	
Roads and/or tracks:         1.Private road adjacent         2.DOT road adjacent         3.Private road within         Description:	4.DOT road within 5.Vehicle tracks 6.Other
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident_ <u>×</u>
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species _X Description: Rotherfiel	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident

Notes:

3

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Page 3



W	ETLAND DETERMINATION DATA FORM - NOVA SCOTIA
Project/Site: <u>GLa</u>	Municipality/County: Guysbergh Sampling Date: Cept
pplicant/Owner:	
ivestigator(s): <u>J. AU~IC7</u>	Section Township Dennes Plack R. R.
andform (hillslope, terrace, etc.);/	116
lope (%): 1590 5 644	15 N Scholer, Miller,
oil Map Unit Name: Rocklor	Datum: Atur: DAtum: Atur: Atur:A
	site typical for this time of year? Yes No (If no, explain in Remarks.)
re Vegetation Soll or I	
re Vegetation . Soil or I	
	ch site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No Is the Sampled Area
Hydric Soil Present?	Yes No within a Wetland? Yes No
Wetland Hydrology Present?	Yes No
Remarks: (Explain alternative procedu	es here or in a separate report.)
EGETATION – Use scientific n	mes of planta
Tree Stratum (Plot size: 10 m	) <u>% Cover Species?</u> Status
1. Pile gluca	Number of Dominant Species $3 \text{ All us}$ Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	
	Species Across All Strata:
5.	Percent of Dominant Species
	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5	(VI )
i. Acro Schrim	2.9 FAR Total % Cover of Multiply has
<u> </u>	OBL species 25 via 24
1	FACW species 25 x2= 50
5.	FAC species <u>4</u> × 3 = <u>12</u>
	FACU species x4 =
lerb Stratum (Plot size: / n	
. Heareinium pracrose.	
Ercophenerum Vugin	
. ASHI Atonuralis	The second secon
- Rhubus - Black Rear-	Facture Rapid Test for Hydrophytic Vegetation
- /	
·	Prevalence Index is ≤3.0 <sup>1</sup>
	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0	2 N N N N N N N N N N N N N N N N N N N
loody Vine Stratum (Plot size:	SS = Total Cover <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·	Hydrophytic
	= Total Cover Present? Yes No

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le Description: (Describe to the dep	th needed to document the indicator or	confirm the absence of indicators.)
	Dodoy Festures	
th C-11 <u>Matrix</u> Color (moist) <u>%</u>	Color (moist) % Type1	Loc <sup>2</sup> Texture Remarks
		History Plat
0		
15		
	· · · · · · · · · · · · · · · · · · ·	
	······································	d Sand Grains. <sup>2</sup> Location: PL=Pore Uning, M=Matrix.
pe; C=Concentration, D=Depletion, RM	A=Reduced Matrix, CS=Covered or Coated	Indicators for Problematic Hydric Soils <sup>3</sup> :
dric Soil Indicators:		Indiductoro for the second
Histosol (A1)	Stripped Matrix (S6)	Sandy Gleyed Matrix (S4)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9)	5 cm Mucky Peat or Peat (S3)
Hydrogen Sulfide (A4)	Loarny Mucky Mineral (F1)	Iron-Manganese Masses (F12)
_ Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain In Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
_ Sandy Mucky Mineral (S1)	Redox Depressions (F8)	
_ Depleted Dark Surface (F7)	Red Parent Material (TF2)	
_ Sandy Redox (S5)		
	_ t1 -	
ndicators of hydrophytic vegetation and	wetland hydrology must be present, unles	ss disturbed or problematic.
estrictive Layer (if observed):		
19		
Type:		Hydric Soll Present? Yes Ves No
Depth (if the second se		Hydric Soll Present? Yes <u>No</u> <u>No</u>
Depth (icea):		Hydric Soll Present? Yes <u>V</u> No
Depth (ieae):		
Pepth (iese):		Secondary Indicators (minimum of two require
Depth (Herein Stress):		Secondary Indicators (minimum of two require
Depth (Image: Semarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is not set in the set of the set	equired; check all that apply)	Secondary Indicators (minimum of two require 
Depth (ices):	required; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two require 
Depth (ices): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is n Surface Water (A1) High Water Table (A2)	equired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two require 
Depth (if Primarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is not set of the set of	equired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15)	Secondary Indicators (minimum of two requires 
Depth (Image: Semarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	equired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mart Deposits (B15) Hydrogen Sulfide Odor (C1	Secondary Indicators (minimum of two requires
Depth (Image: Sediment Deposits (B2))	equired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on	Secondary Indicators (minimum of two requires 
Depth (Image: Semarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	water-Stained Leaves (B9) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron	Secondary Indicators (minimum of two requires
Depth (Image: Second Se	equired; check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Mari Deposits (B15) — Hydrogen Sulfide Odor (C1 — Oxidized Rhizospheres on — Presence of Reduced Iron — Recent Iron Reduction in T	Secondary Indicators (minimum of two requires
Depth (Image: Second Se	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	Secondary Indicators (minimum of two requires
Depth (Image: Second Se	equired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	Secondary Indicators (minimum of two requires
Depth (E Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image	equired: check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — Mari Deposits (B15) — Hydrogen Sulfide Odor (C1 — Oxidized Rhizospheres on — Presence of Reduced Iron — Recent Iron Reduction in T — Thin Muck Surface (C7) ery (B7) — Other (Explain In Remarks	Secondary Indicators (minimum of two requires
Depth (EACOMPANE): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Sur	<u>equired: check all that apply)</u> <u>     Water-Stained Leaves (B9)</u> <u>     Aquatic Fauna (B13)</u> <u>     Mari Deposits (B15)</u> <u>     Hydrogen Sulfide Odor (C1)</u> <u>    Oxidized Rhizospheres on</u> <u>    Presence of Reduced Iron</u> <u>    Recent Iron Reduction in T</u> <u>    Thin Muck Surface (C7)</u> ery (B7) <u>    Other (Explain In Remarks</u> face (B8)	Secondary Indicators (minimum of two requires
Depth (EACOMPANE): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Sparsely Vegetated Concave Sur	<u>equired: check all that apply)</u> <u>     Water-Stained Leaves (B9)</u> <u>     Aquatic Fauna (B13)</u> <u>     Mari Deposits (B15)</u> <u>     Hydrogen Sulfide Odor (C1)</u> <u>    Oxidized Rhizospheres on</u> <u>    Presence of Reduced Iron</u> <u>    Recent Iron Reduction in T</u> <u>    Thin Muck Surface (C7)</u> ery (B7) <u>    Other (Explain In Remarks</u> face (B8)	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Surface Water Present? (Beta Stress St	Water-Stained Leaves (B9) 	Secondary Indicators (minimum of two requires
Depth (image: Second Se	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (incres): 3 cm.     Depth (incres): 5 cm.	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Sturation Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (Inclust): 3 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Sturation Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (Inclust): 3 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Sturation Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (incres): 3 cm.     Depth (incres): 5 cm.	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Sturation Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (Inclust): 3 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n	Secondary Indicators (minimum of two requires
Depth (Image Stress Stress Sturation Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (Inclust): 3 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n	Secondary Indicators (minimum of two requires
Depth (image: second data seco	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on     Presence of Reduced Iron     Recent Iron Reduction in T     Thin Muck Surface (C7)     Other (Explain in Remarks face (B8)     No Depth (Inclust): 3 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n     No Depth (Inclust): 12 c n	Secondary Indicators (minimum of two requires

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2009) A second second form for Northeast-North Central Supplement for use in Nova Scotia (2009)

WETLAND DE	TERMINATION DATA FOR	M - NOVA SCOTIA
		Sharcust Sampling Date: Sept. 1/10
investigator(s): S. Ruchty		Sampling Point: <u>LAS</u>
Landform (hillslope, terrace, etc.): Hillslope		ange: Blucks Point
Slope (%): 2590 644453		f (concave, convex, none): Conuck
Soil Map Unit Name: Rock/cach	bong: 5024	
	Wetla	and Type: Upland
Are climatic / hydrologic conditions on the site typical for Are Vegetation		
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No
Are Vegetation, Soll, or Hydrology	_ naturally problematic? (If n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sample	
Hydric Soil Present? Yes		
Wetland Hydrology Present? Yes	No If yes, optional	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a s	eparate report.)	
100		
VEGETATION - Use scientific names of plant		
		8-
Tree Stratum (Plot size: 10, M)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Liece glawer	To.S. FACIL	Number of Dominant Species 4 (A)
2. Abits belsearce	590 FAC	v.y
3		Total Number of Dominant Species Across All Strata:(B)
/ 5		Percent of Dominant Species
	25	That Are OBL, FACW, or FAC: UDD (A/B)
Sapling/Shrub Stratum (Plot size: 5 m)	25 = Total Cover	Prevalence Index worksheet:
1. Alous income	- 1550 FACWV	
2		OBL species x1 =
3		FACW species $15$ x2 = $30$
5		FAC species $57$ x3 = $171$
0		FACU species 20 x4 = EO
Herb Stratum (Plot size: / un )	<u></u> = Total Cover	UPL species x5 =
1. CONTUB CONCIMENSIS	1590 FAC	Column Totals: <u>7</u> ] (A) <u>281</u> (B)
2. Asyppteris Curthas and	2000 FAL	Prevalence index = $B/A = 3/2$
3. Solidinger Eugose	590 FAC	Hydrophytic Vegetation Indicators:
4. Khubug SP	_ 590	Rapid Test for Hydrophytic Vegetation
5. Mesc Sp 6. DISP Cumpsil, HIArusse	590	Dominance Test is >50%
7. Men in an His now Consider 515	10°70 ATT	Prevalence Index is ≤3.0 <sup>1</sup>
8	_ <u>L'IO_</u> <u>FHT</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10,		
Woody Vine Stratum (Plot size:)	72% = Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1)	127	
2		Hydrophytic Vegetation
	⇒ Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)	
17 C		
% ·		

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Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2009)

Profile Description: (Describe to	the depth needed to d	Deday Footurge				100-
Depth C-11 Matrix		t) % Type' 1	_oc <sup>2</sup> Texture	L	Remarks	
<u>(inclace)</u> <u>Color (molst)</u> _			• • •	De 14		
	·		Cardy	lan	4/1)	sound
0-35 7.5YR 4/4	100				0.0	
					61 N	
	······					
				_		
87				0		
<sup>1</sup> Type: C=Concentration, D=Deple	ation BM-Reduced Ma	trix CS=Covered or Coated	Sand Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M	I=Matrix.
Hydric Soli Indicators:	BION, HWENEGOCED WA			ators for Problem		Soils":
	Stripp	ed Matrix (S6)	S	andy Gleyed Mai	rix (S4)	
Histosol (A1)	Suipp Bolive	alue Below Surface (S8)	C	oast Prairie Red	ox (A16)	
Histic Epipedon (A2)	Thin f	Dark Surface (S9)	5	i cm Mucky Peat	or Peat (S3)	
Black Histic (A3)		y Mucky Mineral (F1)	<b>\</b>	ron-Manganese N	Aasses (F12)	124
Hydrogen Sulfide (A4)     Stratified Layers (A5)	Loam	y Gleyed Matrix (F2)	(	Dther (Explain in I	Remarks)	
Depleted Below Dark Surface		eted Matrix (F3)				1
Thick Dark Surface (A12)	Redo	ox Dark Surface (F6)				
Sandy Mucky Mineral (S1)	Redo	ox Depressions (F8)				
Depleted Dark Surface (F7)	_	Parent Material (TF2)				
Sandy Redox (S5)						
<sup>3</sup> Indicators of hydrophytic vegeta	ation and wetland hydrol	logy must be present, unless	alsturbed or prob	ernauc.		
Restrictive Layer (if observed)	1					
			81			N.,
			ं Hyds	ric Soll Present?	Yes	No
Type: Depth (i222):		S	Hydr	tic Soll Present?	Yes	No
			Hyds	ic Soli Present?	Yes	No
Type: Depth (i222):			Hydr	ric Soll Present?	Yes	No
Type: Depth (i222):			Hydr	tic Soll Present?	Yes	No
Type: Depth (i222):		~	Hydr	tic Soll Present?	Yes	No
Type: Depth (is a final sector of the					a	
Type: Depth (is a constraint of the second se		-		Secondary Indica	tors (minimur	
Type: Depth (is a constraint of the second se	5:	all that apply)			tors (minimur	
Type: Depth (isea): Remarks: HYDROLOGY Wetland Hydrology Indicators Primary Indicators (mlnimum of	s: f one is required; check	all that apply)		Secondary Indica Surface Soil	<u>tors (minimur</u> Cracks (B6)	
Type: Depth (is a constraint of the second se	s: f one is required; check	Water-Stained Leaves (B9)		Secondary Indica Surface Soil Drainage Pa	tors (minimur Cracks (B6) tterns (B10)	
Type: Depth (is in the second	s: f one is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13)		Secondary Indica Surface Soil Drainage Pa Moss Trim L	tors (minimur Cracks (B6) tterns (B10) ines (B16)	n of two requ
Type: Depth (is is a constraint of the second secon	s: fone is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)		Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table	n of two requ (C2)
Type: Depth (is in the second	s: fone is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)		Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table Isible on Aerli	n of two requ (C2) al Imagery (C
Type: Depth (is is a constraint of the second secon	s: f one is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L	lving Roots (C3)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aerl stressed Plant	n of two requ (C2) al Imagery (C ts (D1)
Type: Depth (is a constraint of the second se	s: f one is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron (	lving Roots (C3)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic	tors (minimun Cracks (B6) tterns (B10) ines (B16) Water Table Stressed Plant Position (D2	n of two requ (C2) al Imagery (C ts (D1)
Type: Depth (is a constraint of the second se	s: fone is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction In Til	lving Roots (C3)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table Isible on Aeri Stressed Plant Position (D2 ultard (D3)	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (Feedback Science Sc	s: fone is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7)	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu Microtopogi	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (Figure 1): Remarks: HYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	s: f one is reauired; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction In Til	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (E): Remarks: HYDROLOGY Wetland Hydrology Indicator: Primary Indicators (mlnimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer	s: f one is required; check	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7)	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu Microtopogi	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (isos): Remarks: HYDROLOGY Wetland Hydrology Indicator: Primary Indicators (mlnimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer Sparsely Vegetated Conc	s: f one is required; check  f one is required; check  ial Imagery (B7) ave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu Microtopogi	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (issue): Remarks: HYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeri Sparsely Vegetated Conco Field Observations:	s: f one is required; check  f one is required; check  ial Imagery (B7) ave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu Microtopogi	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
Type: Depth (isights): Remarks: HYDROLOGY Wetland Hydrology Indicators Primary Indicators (mlnimum of Surface Water (A1) Surface Water (A1) Surface Water (A1) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Sparsely Vegetated Cond Field Observations: Surface Water Present?	s: f one is required; check 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on L Presence of Reduced Iron ( Recent Iron Reduction in Til Thin Muck Surface (C7) Other (Explain in Remarks)	lving Roots (C3) C4) Iled Soils (C6)	Secondary Indica Surface Soil Drainage Pa Moss Trim L Dry-Season Saturation V Stunted or S Geomorphic Shallow Aqu Microtopogi	tors (minimur Cracks (B6) tterns (B10) ines (B16) Water Table isible on Aeri Stressed Plant Position (D2 litard (D3) aphic Relief (	n of two requ (C2) al Imagery (C ts (D1) )
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a <sup>1</sup> 4

## Freshwater Wetland Data Sheet: 4/2 6

Date: S. 1/10 Investigator(s): Scott Burley\_ Weather: <u>Sun</u> Topographic Sheet: \_\_\_\_\_ Aerial Photo Number:

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) \_\_\_\_ 3.Fen (FE)

Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW 5.Dead woody OW \_\_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM \_ 11.Rooted floating leaved DM 12.Robust DM \_ 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_\_ 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded \_\_\_\_ 2.Saturated \_\_\_\_\_

Wetland Atlas Number : \_\_\_\_ GIS Map / Stand Ne, : Wetland Form<sup>1</sup>:: Ses Scy Wetland size: ha Associated Watercourse:

Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) 6.Forested wetland (FW)

5.Meadow \_\_\_ 6.Shrub swamp \_\_ 7.Wooded swamp 8.Bog 🔀

19.Floating leaved SM \_ 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats \_\_\_\_\_ 23.Shrubby SFF \_\_ 24.Grazed meadow \_\_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS \_\_ 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_\_ 34.Shrubby B \_\_\_\_\_ 35.Open B V.

3.Seasonally flooded

Water Depth: 1.0-5 cm \_\_\_\_X 2.5-20 cm \_\_\_\_ 3.20-50 cm \_\_\_\_\_

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

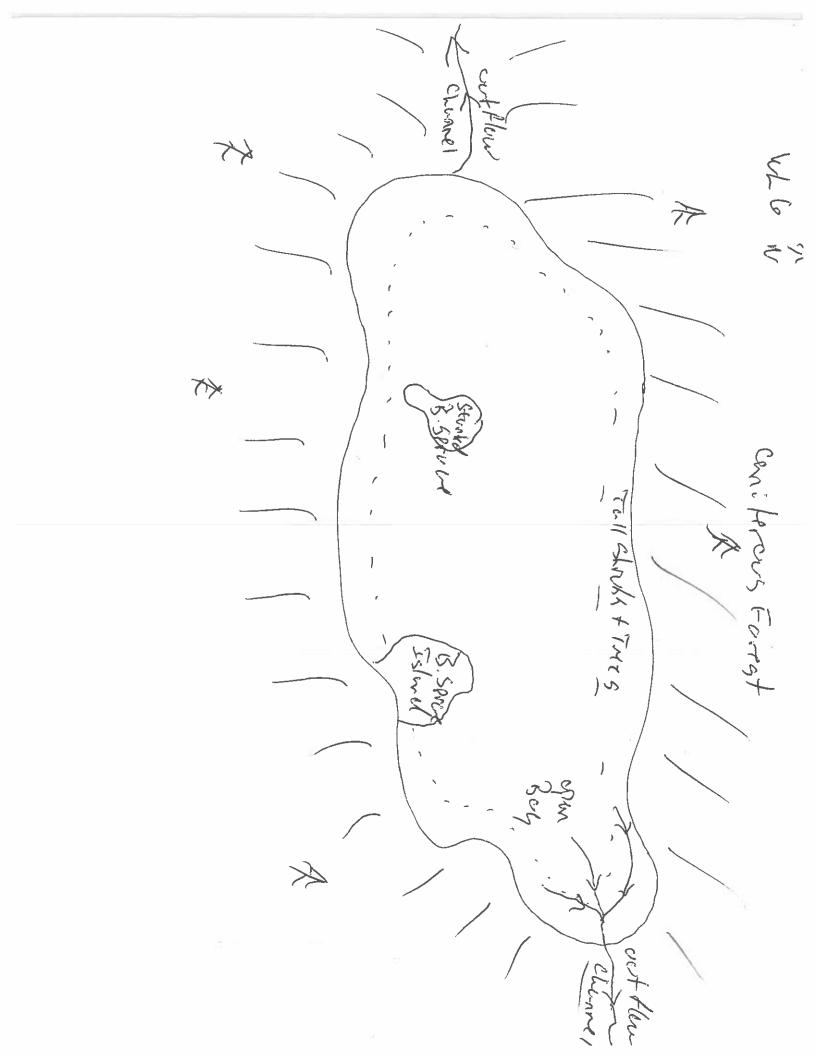
Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 3. Ducks Unlimited Impoundment 4. None of the above  $\underline{\mathcal{X}}$ 2.Man-made Impoundment Percent Vegetation Cover: 1.> 95% \_\_\_\_ 5.26-75% in patches 2.76-95% in peripheral band 6. 5-25% in peripheral band 3.76-96% in patches 7. 5-25% in patches \_\_\_\_\_ 4.26-75% in peripheral band \_\_\_ 8.< 5% Wetland Site: 1.Lacustrine 4.Isolated 2.Riverine 5.Deltaic \_\_\_\_ 3.Palustrine Vegetation Types (%) Birth 1.Deciduous trees 2.Coniferous trees 4/04 **3.Dead trees** 1670 - 651 r 4. Tall shrubs 10 90 5.Low shrubs 57/20 Lah 6.Dead shrubs 2550 7.Herbs NUGO 8.Mosses - Cattoni Vass, lavet 9.Narrow-leaved emergents 10.Broad-leaved emergents "7<u>cr</u> 11.Robust emergents J 12.Free-floating plants 13.Floating plants (rooted) 14.Submerged plants 15. Other Interspersion: 1.Minimal \_\_\_\_ 2.Low \_\_\_\_ 3.Medium \_\_\_\_ 4.High \_\_\_\_ Conductivity: N/A <u>pH</u>: N/A Alkalinity: N/A Hydrological Classification: 3.Surface water slope \_\_\_\_ 1.Surface water depression X 2.Ground water depression 4.Ground water slope Inlets/Outlets/water bodies: Terrive out flow Boy & East best med Wildlife: (Observation/Signs/Reports) Passerine Freg

Page 2

Page 3

<u>Adiacent Wildlife habitat (%):</u> 1.Salt marsh	E Baach
2.Forest <u>(UU</u>	5.Beach
3.Dykelands	6.River 7. Other
4.Mudflats	7. Ouler
4.Mddhdto	
Description:	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial 5.Urban development	10.Trapping 11.Education
6.Transportation	12.Seasonal resident
Description: Minut	
Disturbance: 1.Low 2.Moderate 3.High	
Description:	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other
Description: Q I I I	
Description: Property Let liv	e c East sille
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident
3.Aesthetics	
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species <u>X</u>	6. None evident
Description: Portmitial	
Notes:	



WETLAND D	ETERMINATION DATA	FORM - NOVA SCOTIA
	Municipality/County:(	
Applicant/Owner:		
investigator(s): S. Rucky		Sampling Point (16 - 67)
Landform (hillslope, terrace, etc.): _Flat		nship, Range: Blacks Point
Slope (%): 290 Lat. (044700	Lo	cal relief (concave, convex, none): <u>Concaud</u>
Soil Map Unit Name:	<del>_tong:50</del>	Datum: <u>NAS 93</u>
		Wetland Type: <u>Rog</u>
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	No (If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology		(If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site ma	p showing sampling <sub>l</sub>	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	/ '	Sampled Area
Hydric Soil Present? Yes		a Wetland? Yes No
Wetland Hydrology Present? Yes	No	optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a	separate report.)	
	·····	
EGETATION - Use scientific names of plan	ts.	4 2
	Absolute Dominant In	dicator Dominance Test worksheet:
Plot size: _/////)	<u>% Cover Species?</u>	Status Number of Dominant Species
AGER Ruhrunn Abies Balsumen	<u> </u>	That Are OBL, FACW, or FAC:
Pier co:		Total Number of Dominant
Piese Masimon	<u>590 _ F</u>	Species Across All Strata:
·		Percent of Dominant Species
	12 = Total Cover	
Sapling/Shrub Stratum (Plot size: 5		Prevalence Index worksheet:
ACTS SUGJUAN	<u> </u>	AC Total % Cover of: Multiply by:
Licke mesione	_ 550 _ 1	FACL OBL species S.7 x1= S.7
Alous incona	_ 290 _ F	ACL FACW species 1/ x2= 22
NITTICE POUS 7/4micen		$\overrightarrow{AC}$ FAC species $2.3 \times 3 = 6.4$
acylusaceic bacata		ACU FACU species (() x4= 417
erb Stratum (Plot size:/	Z3_= Total Cover	
Muinan Henen tritolia	20.9	Column Totals: <u>81</u> (A) <u>68</u> (B)
Esciptuation vaginican		
Inclustrecia burgette		RL Prevalence Index = B/A = 2.1 Acu Hydrophytic Vegetation Indicators;
Lection esconteradicum		Rapid Test for Hydrophytic Vegetation
Aster almaralis	Zen E	ACL Dominance Test is >50%
Philas hispidus	0.0	$A_{L}$ Prevalence Index is $\leq 3.0^{1}$
Rhypetrosperros alba	20	Morphological Adaptations <sup>1</sup> (Provide supporting
		data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
oody Vine Stratum (Plot size:)	HL_ = Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(i or ale)	e	A
		Hydrophytic
		Vegetation Present? Yes No
emarks; (Include photo numbers here or on a separate	= Total Cover	

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2009)

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		pth needed to document the indicator or con	
pth 斗 11 🔛	Matrix Color (moist) %	Redox Features Color (moist) % Type <sup>1</sup> Loc	7 Texture Remarks
-	00101 (1110-011		ognic plat
0			
	0		
		×	
			N 3
		H	
			nd Grains, <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
ype: C=Conc	centration, D=Depletion, F	RM=Reduced Matrix, CS=Covered or Coated Sa	indicators for Problematic Hydric Soils <sup>3</sup> :
ydric Soli Ind	licators:		Sandy Gleyed Matrix (S4)
Histosol (A	.1)	Stripped Matrix (S6)	Coast Prairie Redox (A16)
Histic Epip		Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histi	c (A3)	Thin Dark Surface (S9)	iron-Manganese Masses (F12)
Hydrogen	Sulfide (A4)	Loamy Mucky Mineral (F1)	Other (Explain in Remarks)
Stratified L	ayers (A5)	Loamy Gleyed Matrix (F2)	Office (Explain in ) territory
_ Depleted I	Below Dark Surface (A11)	) Depleted Matrix (F3)	
Thick Dari	k Surface (A12)	Redox Dark Surface (F6)	
Sandy Mu	cky Mineral (S1)	Redox Depressions (F8)	
Depleted	Dark Surface (F7)	Red Parent Material (TF2)	
Sandy Re	dox (S5)		
		in the second to account the second uplace di	eturbed or problematic.
Indicators of	hydrophytic vegetation ar	nd wetland hydrology must be present, unless die	
Restrictive L	ayer (if observed):		
Type:			No.
Type:			Hydric Soil Present? Yes No
Depth (	2 <b>`</b>		Hydric Soil Present? Yes No
Type: Depth (H	<b>≥</b> >:		Hydric Soll Present? Yes No
Depth (	<b>≧</b> >):		Hydric Soil Present? Yes No
Depth (	<b>≩}</b> ):		Hydric Soll Present? Yes No
Depth (	<b>2</b> ∑):		Hydric Soll Present? Yes <u>No</u>
Depth (			
Depth (Herein Contraction Cont	GY		Secondary Indicators (minimum of two required)
Depth (	GY drology Indicators;	required: check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Depth (Herein Control of Control	GY drology Indicators: cators (minimum of one is	s required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Depth (Kerner Remarks:	<b>GY</b> drology Indicators: cators (minimum of one is Water (A1)	Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> Surface Soil Cracks (B6) Drainage Patterns (B10)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Depth (K	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Mari Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial imagery (C9)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Jarks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir	Secondary Indicators (minimum of two required)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required)
Depth (International International Internati	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) int Deposits (B2) ipposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxldized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Secondary Indicators (minimum of two required)
Depth (Image: Compare the comp	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Mari Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxldized Rhizospheres on Livir</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> </ul>	Secondary Indicators (minimum of two required)
Depth (international international internati	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) ant Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) gery (B7) Other (Explain In Remarks)	Secondary Indicators (minimum of two required)
Depth (F	GY drology Indicators: <u>cators (minimum of one is</u> Water (A1) ater Table (A2) on (A3) Marks (B1) mt Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) tion Visible on Aerial Ima	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) gery (B7) Other (Explain In Remarks)	Secondary Indicators (minimum of two required)
Depth (international international internati	GY drology Indicators: <u>cators (minimum of one is</u> Water (A1) ater Table (A2) on (A3) Marks (B1) mt Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) tion Visible on Aerial Ima	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Gery (B7) Other (Explain in Remarks) urface (B8)	Secondary Indicators (minimum of two required)
Depth (F	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) lat or Crust (B4) isposits (B5) tion Visible on Aerial Image by Vegetated Concave Star ervations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) urface (B8)	Secondary Indicators (minimum of two required)
Depth (international international internati	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) ont Deposits (B2) posits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imaginary by Vegetated Concave St ervations: ater Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) urface (B8)	Secondary Indicators (minimum of two required)
Depth (Here Remarks: HYDROLO Wetland Hyu Primarv India Surface High Wa Saturati Satu	GY drology Indicators: cators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) m Deposits (B2) posits (B3) lat or Crust (B4) posits (B5) tion Visible on Aerial Image ly Vegetated Concave State ervations: ater Present? Yes le Present? Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livir     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Thin Muck Surface (C7) gery (B7) Other (Explain in Remarks) urface (B8)	Secondary Indicators (minimum of two required)
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Projectistic:	WETLAND DE	TERMINATION DATA FOR	M - NOVA SCOTIA
Investigative:       Section, Township, Range:       Startion Prior Start       Section, Township, Range:       Start Start         Section, Township, Range:       Section, Township, Range:       Start Start       Section, Township, Range:       Start       Section, Township, Range:       Start       Section, Township, Range:       Start       Section, Township, Range:       Start       Star       Start       Star			1
and/orm fillations, image       Diff A sector         indep (%):       Sign (MULLIC)         tope (%):       Si	pplicant/Owner: Erdrund Vale		Showing Date: Start (
and/orm fillations, family:	vestigator(s): S. Rucky		Sampling Point: <u>LILE</u>
page (%):       S2       Site       UHULTLO       Use Contrain (Dollars, Control, Mole):       Datum:       DAD		ereard remoniping	ange. $\underline{-}$ $\underline$
Image Data Name         CCP / CONC           a Vegetation         Soll         or Hydrology         significantly disturbed?         No         (If no, explain in Ramafac)           a Vegetation         Soll         or Hydrology         significantly disturbed?         Are "Normal Circumstances" present?         Yes         No           a Vegetation         Soll         or Hydrology         Inturally problematio?         (If needed, explain any answers in Remarke.)           JIMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, Important features, etc.         ydrophydro Vegetation Present?         Yes         No           Yes         No         Is the Sampled Area         within a Wetland Type:         No		Local relie	f (concave, convex, none):
a Vegetation       Soil       (If no, explain in Formarks)         a Vegetation       Soil       (If no, explain in Formarks)         a Vegetation       Soil       or Hydrology       isplitikantly disturbed?       Are "Normal Circumstances" present? Yes       No         JMMARY OF FINDINGS – Attach site map showing sampling point locations, transvers in Remarks.)       JMMARY OF FINDINGS – Attach site map showing sampling point locations, transvers in Remarks.)         JMMARY OF FINDINGS – Attach site map showing sampling point locations, transvers, important features, etc.       Ves       No         Vidio Soil Present?       Yes       No       If the Sampled Area       within a Watland?         Ves       No       If set Sampled Area       within a Watland?       Yes       No         Editarch Hydrology Present?       Yes       No       If yes, optional Wetland Site ID.       If yes, optional Wetland Site ID.         Balloy Present?       Yes       No       Scover, Seclear?       Status       Number of Dominant Species       (A)         That Are OBL, FACW, or FAC:       Scover, Seclear?       Status       Matinghy br.       (B)         Prevalence Index worksheet!       Species Across All Stratus       (B)       Prevalence Index worksheet!       (B)         Mile Across-two       ISS       FAC       OBL, FACW, or FAC       S	Man Linit Name: Cold from a ch	tota: _ <u>302.4</u>	27 Datum: <u>N/AD 83 (</u>
a Vegetation		Wetla	and Type: Up/and
a Vegetation	and any energies containents on the site typical for th	his time of year? Yes I / No	(If no, explain in Remarks.)
JMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, Important features, sto         ydird Sol Present?       Yes       No	Vegetation, Soli, or Hydrology	significantly disturbed? Are	"Normal Circumstances" present? Yes No
witcophylic Vegetation Present?       Yes       No	o vegetation, Soll, or Hydrology	naturally problematic? (If n	eeded, explain any answers in Remarks.)
Hydrophylic Vegetation Present?       Yes       No       Is the Sampled Area within a Wetland?       Yes       No         Hydro Soll Present?       Yes       No       If yes, optional Wetland Site ID:       No       If yes, optional Wetland Site ID:         Herand Hydrology Present?       Yes       No       If yes, optional Wetland Site ID:       No         Herand Hydrology Present?       Yes       No       If yes, optional Wetland Site ID:       No         Herand Hydrology Present?       Yes       No       If yes, optional Wetland Site ID:       No         Herand Hydrology Present?       Yes       No       If yes, optional Wetland Site ID:       No         EGETATION - Use scientific names of plants.       Absolute       Dominant Indicator % Cover Species?       Status       Dominant Species       (A)         Hydro Soll Provide Size:       ////////////////////////////////////	UMMARY OF FINDINGS – Attach site map	showing sampling point l	ocations, transects, important features, etc.
Weiland Hydrology Present?       Yes       No       If yes, optional Wetland Site ID:         Remarks: (Explain alternative procedures here or in a separate report.)       Absolute Dominant Indicator       Dominance Test worksheet:         Remarks: (Explain alternative procedures here or in a separate report.)       Absolute Dominant Indicator       Dominance Test worksheet:         If yes, optional Wetland Site ID:	Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No Is the Sample	d Area
GETATION – Use scientific names of plants.         Teasting (Plot size:	Vetland Hydrology Present? Yes	No	
EGETATION – Use scientific names of plants.         Tree Stratum (Plot size:	lemarks: (Explain alternative procedures here or in a se	eparate report.)	
res Stratum       (Plot size: _/(2n)			21
res Stratum       (Plot size: _/(2n)			
Interstation       (Plot size:	GETATION – Use scientific names of plants	3. ·	
Multiple       Multiple         Multi	ree Stratum (Plot size:	Absolute Dominant Indicator	Dominance Test worksheet:
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Phils La Kante	<u>Species?</u> Status	Number of Dominant Species
India Number 20 Dominant       Species Across All Strata:       (B)         Species Across All Strata:       (C)       (B)         India Address All Strata:       (C)       (C)         Mit Account Species       (C)       (AB)         India Address Across All Strata:       (C)       (C)         Mit Account Species       (C)       (AB)         India Address Across All Strata:       (C)       (C)         Mit Account       (C)       (C)       (C)         Mit Account       (C)       (C)       (C)         Mathematic Account       (C)       (C)       (C)       (C)         Mathematic			That Are OBL, FACW, or FAC: (A)
Image: Second Stratum       (Plot size: Second Stratum       (Plo		· · · · · · · · · · · · · · · · · · ·	
Indiang/Shrub Stratum (Plot size:)       IS = Total Cover       Percent of Dominant Species       IAR (AB)         Mit A GGG-MAC       IS In Internet Cover       Prevalence Index worksheet:       Total % Cover of:       Multiply by:         Internet Cover       IS Internet Cover       FAC       OBL species       Image: Cover of:       Multiply by:         Internet Cover       Internet Cover       Internet Cover of:       Multiply by:       Total % Cover of:       Multiply by:         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Internet Cover       Internet Cover         Internet Cover       Internet Cover       Internet Cover       Interesent?       Yes I			(-)
apling/Shrub Stratum (Plot size:)       15       = 1 otal Cover         Mint Scisc. Inde       15       74C         Richt Scisc. Inde       15       74C         Stratum (Plot size:)       15       74C         Richt Scisc. Index       162       74C         FAC Species       54       x3 = 162         Provalence Index worksheet:       74C       74C         FAC Species       54       x3 = 162         Provalence       15       162       74C         FAC Species       54       x3 = 162       162         Provalence Index worksheet:       179       179       179         Provalence Index worksheet:       162       179       162         Provalence Index setse       179       179       179 <td></td> <td></td> <td>Percent of Dominant Species</td>			Percent of Dominant Species
$M_{i}: L_{SGSMMC}$ $ISIGN_{i}$ $FAC$ Total % Cover of:       Multiply by: $Picta_{i}$ $M_{i}$ $S_{SO}$ $FAC$ $Total % Cover of:       Multiply by: Mut_{i} Icxol: d_{i}/c_{i} S_{SO} FAC Total % Cover of:       Multiply by: Mut_{i}/c_{i} Icxol: d_{i}/c_{i} S_{SO} FAC FAC Secles X = \frac{O}{V} FAC Icxol: d_{i}/c_{i} Z_{SO} FAC $	anling/Shrub Stratum (Plot size: 500	= Total Cover	
$KArr       ADdition       SB_{2} FACu       OBL species       x 1 = 0 Mathinspace       ZZ_2 FAC FAC FAC species       Z = 144         FAC species       SA = 162 FAC FAC species       SA = 162 FAC species       SA = 20 FAC FAC species       SA = 20 Mathinspecies SA = 20 FAC FAC FAC Mathinspecies SA = 290 FAC FAC FAC FAC Mathinspecies SA = 290 FAC $	Ahid Science	IS FAC	
Stratum (Plot size:)       Z 2 = Total Cover       FAC       FAC species $\overline{7}$ x2 =         arb Stratum (Plot size:)       ZZ = Total Cover       FAC species $\overline{54}$ x3 =       If $\overline{62}$ arb Stratum (Plot size:)       ZZ = Total Cover       UPL species $\overline{54}$ x3 =       If $\overline{62}$ arb Stratum (Plot size:)       ZZ = Total Cover       UPL species $\overline{54}$ x3 =       If $\overline{62}$ arb Stratum (Plot size:)       ZZ = Total Cover       FAC       Prevalence Index = B/A =       Z 9 7         Main Act List is - index       Sign       FAC       Prevalence Index = B/A =       Hydrophytic Vegetation Indicators:         Difference       Index is 200       FAC       Prevalence Index is $>30^{1}$ Dominance Test is $>50\%$ Bis 5       Arsoluptic       Z20       FAC       Prevalence Index is $>3.0^{1}$ Dominance Test is $>50\%$ Bis 5       Arsoluptic       Z20       FAC       Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation' (Explain)         Stratum (Plot size:)       Z 9       Total Cover       Indicators of hydric soil and wetland hydrology must be present; unless disturbed or problematic.         Hydrophytic       Yes 1       No	Picter Mexine.		THURSDAY DV.
FAC species       54       x3 =       //62         arb Stratum (Plot size:       /m)       ZZ = Total Cover       UPL species       x5 =         Mc: non // id is - k/kc       59 //2       FAC       Prevalence Index = B/A =       Z.97         Vin non       More //2       //2       FAC       Prevalence Index = B/A =       Z.97         Min non       More //2       //2       FAC       Prevalence Index = B/A =       Z.97         Min non       More //2       //2       FAC       Prevalence Index = B/A =       Z.97         Min non       More //2       //2       FAC       Prevalence Index = B/A =       Z.97         Min non       More //2       //2       FAC       Prevalence Index is s3.01       Dominance Test is >50%         Min non       Z%0       FAC       Prevalence Index is s3.01       Dominance Test is >50%       Prevalence Index is s3.01         Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation1 (Explain)         Mody Vine Stratum (Plot size:       //2       //2       Total Cover       Present?         = Total Cover       Hydrophytic       Vegetation       Vegetation       Present?	Bette eardi destica	ZZ FAC	-7
arb Stratum (Plot size:) $ZZ = Total Cover$ FACU species			
arb Stratum (Plot size:			
Mc: non Hern un Concellansis $\overline{S}$ $\overline{FAC}$ Column Totals: $\underline{GG}$ $\underline{A}$ $\underline{I}$ $\underline{GG}$ $\underline{I}$ $\underline{I}$ $\underline{GG}$ $\underline{I}$ $\underline{I}$ $\underline{GG}$ $\underline{I}$ $\underline{I}$ $\underline{GG}$ $\underline{I}$ <	arth Stratum (Plot size: 100	<u>ZZ</u> = Total Cover	
Vicion in man 1/id; 5 - ic/dia       5.9 a       FAC       Prevalence Index = B/A = 2.97         Im technological Acately is       10.9 a       FAC       Hydrophytic Vegetation Indicators:         Im technological Acately is       59 a       FAC       Dominance Test is >50%         Differ       29 a       FAC       Dominance Test is >50%         Prevalence Index is \$3,01       29 a       FAC         Prevalence Index is \$3,01       Dominance Test is \$50%         Prevalence Index is \$3,01       Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)         Image: Stratum (Plot size:       29 a       Total Cover         Image: Stratum (Plot size:       0       10 and wetland hydrology must be present; unless disturbed or problematic.		5510	
Image: Approximation of the stratum (Piot size:)       Image: Approximation of the stratum of the stra	VEMIN MAR LILIS - MA	Fair FAC	
Di + Clalla       Marchalla       SGA       FALU       Rapid Test for Hydrophytic Vegetation         Dictor       290       FALU       Dominance Test is >50%       Dominance Test is >50%         Phint S       550/50/1040       290       FACU       Dominance Test is >50%         Object       290       FACU       Dominance Test is >50%         Phint S       550/1040       290       FACU         Object       290       FACU       Dominance Test is >50%         Prevalence Index is ≤3.01       Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation1 (Explain)         Ody Vine Stratum (Plot size:       0       Z G       = Total Cover         = Total Cover       Hydrophytic       Yes 1       No	Linner horeclis	1090 FAC	
2.90       FAC	Ditchella repans	SGA JENCH	
Bh.15       Bis 250       FAC	Pice presience	290 EAL	
		290 EAC	
adata in Remarks or on a separate sheet)			Morphological Adaptations <sup>1</sup> (Provide supporting
ody Vine Stratum (Plot size:)       7.9 = Total Cover       1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         = Total Cover       Hydrophytic Vegetation Present?       Yes 1 No			data in Remarks or on a separate sheet)
vody Vine Stratum (Plot size:)       Z 9 = Total Cover       'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         Hydrophytic       Vegetation         Present?       Yes 1			Froblematic Hydrophytic Vegetation' (Explain)
= Total Cover Vegetation Ves 1 No	ody Vine Stratum (Plot size:)		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover Vegetation Present? Yes 1 No			Hydrophytic
		· · · · · · · · · · · · · · · · · · ·	Vegetation
	marks: (Include photo numbers here or on a separate s	= Total Cover	Present? Yes // No

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Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2009)

Lione Persilent (	o the depth nee	eded to document the indicator or con	mm the absen	Ge of Indicators)
Depth Cm Matrix		Redox Features		Demoder.
(incises) Color (moist)	<u>%</u> Co	olor (moist) % Type <sup>1</sup> Loc	<sup>2</sup> <u>Texture</u>	
00			0.00	_ out
1 1 7 CIB 1.11			Sapel	1 lerm
0-10 AN 12 011			cli -	learn
10-30 7.5 YR 4/6			- May	
-				<u></u>
		· · · ·		
· · · · · · · · · · · · · · · · · · ·	·			
<u> </u>				
				<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Dep	oletion, RM=Red	luced Matrix, CS=Covered or Coated Sa	nd Grains.	tors for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Indicators:			Indiva	
Histosol (A1)	_	_ Stripped Matrix (S6)	S	andy Gleyed Matrix (S4)
Histic Epipedon (A2)	_	Polyvalue Below Surface (S8)	_ c	oast Prairie Redox (A16)
Black Histic (A3)		Thin Dark Surface (S9)	5	cm Mucky Peat or Peat (S3)
Hydrogen Sulfide (A4)	_	Loamy Mucky Mineral (F1)	lr	on-Manganese Masses (F12)
Stratified Layers (A5)	-	Loamy Gleyed Matrix (F2)	C	ther (Explain in Remarks)
Depleted Below Dark Surfa	ce (A11)	Depleted Matrix (F3)		
Thick Dark Surface (A12)		Redox Dark Surface (F6)		
Sandy Mucky Mineral (S1)		Redox Depressions (F8)		
Depleted Dark Surface (F7	) .	Red Parent Material (TF2)		
Sandy Redox (S5)				
		the sector sec	sturbed or probl	ematic.
<sup>3</sup> Indicators of hydrophytic veget	tation and wetla	nd hydrology must be present, unless dis		0(1)000
Restrictive Layer (if observed	d):			
Type:				L Out Descent? Ves NO S
Depth (icarcs);			Hydri	ic Soil Present? Yes No
Depth (it			Hydr	ic Soil Present? Yes No
Depth (increase):		I	Hydri	ic Soil Present? Yes No
Depth (it		- *	Hydri	ic Soil Present? Yes No
Depth (it			Hydri	ic Soil Present? Yes No
Depth (F220);		- <u>1</u> - 1)	Hydri	ic Soil Present? Yes No
Depth (it				
Depth (Incomparison of the second sec	rs;			Secondary Indicators (minimum of two req
Depth (Incomparison of the second sec	rs: of one is require	d; check all that apply)		Secondary Indicators (minimum of two req
Depth (Incomparison of the second sec	rs: of one is require	d; check all that apply) Water-Stained Leaves (B9)		Secondary Indicators (minimum of two req 
Depth (Image): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1)	ors: of one is require	Water-Stained Leaves (B9)		Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Depth (Incomparison of the second sec	ors: of one is require	Water-Stained Leaves (B9) Aquatic Fauna (B13)		Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Depth (Free Constraints):	rs: of one is require	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)		Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
Depth (Free Constraints):	rs: of one is require	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Mart Deposits (B15)     Hydrogen Sulfide Odor (C1)	E Soots (C3)	Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1)
Depth (ECC): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum 	ors: of one is require	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livin	ng Roots (C3)	Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1)
Depth (ECC): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum 	rs: of one is require	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livin     Presence of Reduced Iron (C4)	ng Roots (C3)	Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (ECC): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum 	rs: of one is require	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livin     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled	ng Roots (C3)	Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shailow Aquitard (D3)
Depth (ECC): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum 	<u>of one is require</u>	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livin     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)	ng Roots (C3)	Secondary Indicators (minimum of two requests) Secondary Indicators (minimum of two requests) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shailow Aquitard (D3) Microtopographic Relief (D4)
Depth (ESS): Remarks: HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Inundation Visible on Ae	<u>of one is require</u> prial Imagery (B7	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livin     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)     Other (Explain In Remarks)	ng Roots (C3)	Secondary Indicators (minimum of two req Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shailow Aquitard (D3)
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#### Freshwater Wetland Data Sheet: WL7

Date: <u>Serat.1/10</u> Investigator(s): Scott Burley\_\_\_\_ Weather: <u>Son</u>\_\_\_\_

Topographic Sheet: \_\_\_\_\_ Aerial Photo Number:

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_\_ 2.Bog(BO) \_\_\_\_\_ 3.Fen (FE) \_\_\_\_\_

Wetland Class: 1.Open water \_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats \_\_\_\_

Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW 5.Dead woody OW 6.Vegetated deep marsh 7.Non-vegetated DM \_\_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM \_ 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_ 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded <u>X</u> - Channels 2.Saturated <u>K</u>

Water Depth: 1.0-5 cm \_\_\_\_\_K 2.5-20 cm \_\_\_\_\_C Channels 3.20-50 cm \_\_\_\_ Wetland Atlas Number : \_\_\_\_\_ GIS Map / Stand No. ; \_\_\_\_\_ Wetland Form<sup>1</sup>:: <u>Startor</u> Wetland size: <u>ha</u> Associated Watercourse: \_\_\_\_\_

4.Emergent wetland (SB) 4.Emergent wetland (EW) \_ 6.Forested wetland (FW) `\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_\_\_\_

19.Floating leaved SM \_\_\_ 20.Rooted floating leaved SM \_\_\_\_\_ 21.Non-vegetated SM \_\_\_\_\_ 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow \_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS K 29.Compact SS 30.Low sparse SS 🔜 🗡 31.Deciduous wooded swamp 32.Evergreen WS 👱 33.Wooded bog 34.Shrubby B \_\_\_\_\_ 35.Open B \_\_\_\_\_

3.Seasonally flooded

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the aboveX_
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1.Deciduous trees 2.Coniferous trees 3.Dead trees 4.Tall shrubs 5.Low shrubs 6.Dead shrubs 7.Herbs 8.Mosses 9.Narrow-leaved emergents 10.Dead trees	
10.Broad-leaved emergents         11.Robust emergents         12.Free-floating plants         13.Floating plants (rooted)         14.Submerged plants         15. Other	>1
Interspersion: 1.Minimal 🔨 2.Low 3	.Medium 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>рН</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Lef: C. Through How	
Wildlife: (Observation/Signs/Reports)	

Frug

¥.

Adjacent Wildlife habitat (%): 1.Salt marsh 5.Beach \_ (0 2.Forest <u>902</u> 6.River \_\_\_\_ 3.Dykelands 7. Other \_\_\_\_\_ 4.Mudflats Description: Surrounding Land Use %: 1 Agriculture 7.Residential \_\_\_\_ 2.Forestry \_\_\_\_ 8.Waste Disposal 3 Recreation 9.Scientific Research 4.Industrial 10.Trapping \_\_\_\_\_ 5.Urban development \_\_\_\_ 11.Education 6.Transportation \_\_\_\_\_ 12.Seasonal resident Description: Disturbance: 1.Low \_\_\_\_\_ 2.Moderate \_\_\_\_ 3.High \_\_\_\_\_ Description: None Roads and/or tracks: 1.Private road adjacent 4.DOT road within \_\_\_\_\_ 2.DOT road adjacent 5.Vehicle tracks 3.Private road within \_\_\_\_\_ 6.Other \_\_\_\_\_ Description: Ma Existing Uses of Wetlands: 1.Economic use (e.g. farming) 4.Education & public awareness 2.Recreational activities 5. None evident 3.Aesthetics \_\_\_\_ Potential Threats: Special Features: 1.Rare wetland type 4.Nesting site for colonial water birds \_\_\_\_\_ 2.Rare animal or plant species 5. Migration stop-over site \_\_\_\_\_ 3.Habitat of rare species 6. None evident Perfor tial Description: Notes:

Page 3

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a.

WETLAND DELINEAT	ION DATA FORM -	- NOVA SCOTIA
Project/Site: Black Paint Municipal	lity/County: Gres	Sherry L Sampling Date: Aug 20/14
Applicant/Owner: 1/1/1CMA		Sampling Point: whet The Collect
Investigator(s): 5. Sectory	Affiliation:AME	<u> </u>
Landform (hillslope, terrace, etc.):	Local relief (	(concave, convex, none): <u>Hummully</u>
Slope (%): Lat: 444 86 9	Long: SUL4	<u>Datum:</u> <u>NAX &amp;</u>
Soil Map Unit Name/Type: Reck/And	We	tland Type: Tored Sureno
Are climatic / hydrologic conditions on the site typical for this time of y		1
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	y sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No         Wetland Hydrology Present?       Yes       No         Remarks:       (Explain alternative procedures here or in a separate report	within a Wetlan	
VEGETATION – Use scientific names of plants.		
Absolute	e Dominant Indicator	Dominance Test worksheet:
	r Species? Status	Number of Dominant Species
1. Victor mariana (00	racu	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
4		Species Across All Strata: (B)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5 60	2 = Total Cover	
Sapling/Shrub Stratum (Plot size:)	154.	Prevalence Index worksheet:
2. Anniel chaline molenicaros D	- FALL	Total % Cover of:     Multiply by:       OBL species     2
2 HOMALA THOMALACE HARRING (6) 1212 - F	Ette	OBL species $2 \times 1 = 2$ FACW species $7 \times 2 = 154$
۵		FAC species $4 \times 3 = 12$
5.		FACU species x4 =
1 7	_ = Total Cover	UPL species x 5 =
Herb Stratum (Plot size: / Mn )		Column Totals: 73 (A) 148 (B)
1. Revers publicans d	Effe	1 contract of the second se
2. Liven box colis	rAc	Prevalence Index = $B/A = 2.0$
3. Caret trispenne 2	OBL	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
4		Dominance Test is >50%
5		Prevalence Index is ≤3.0 <sup>1</sup>
7		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1		Hydrophytic
2		Vegetation Present? Yes No
	_ = Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)		
	<u>x</u>	

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

	to the depth needed to doc		or confirm	the absence of	if indicators.)
Depth <u>Matrix</u> (inches) Color (moist)		dox Features	1.0.02	Texture	Bomorko
					Remarks
1)-40t				Crigonic.	Hlest
	·			· .	
	· ·····		,		·····
	· ·			·	
					·····
Type: C=Concentration, D=Dep	letion, RM=Reduced Matrix,	CS=Covered or Coate	d Sand Gra	ains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:				Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Rec	lox (S5)			rairie Redox (A16)
Histic Epipedon (A2)		Below Surface (S8)			ucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark				nganese Masses (F12)
Hydrogen Sulfide (A4)		eyed Matrix (F2)			nt Floodplain Soils (F19)
Stratified Layers (A5)	Depleted N				rent Material (TF2)
Depleted Below Dark Surface Thick Dark Surface (A12)		k Surface (F6)		Other (I	Explain in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Dark Surface (F7)			
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Redox Dep	nessions (ro)			
Gandy Gleyed Matrix (64)					
Restrictive Layer (if observed): Type: Depth (inches): Remarks:				Hydric Soil I	Present? Yes <u>No</u>
Type: Depth (inches):				Hydric Soil I	Present? Yes <u>No</u>
Type: Depth (inches):				Hydric Soil I	Present? Yes <u>No</u>
Type: Depth (inches): Remarks:					Present? Yes <u>No</u> <u>No</u>
Type: Depth (inches): Remarks: YDROLOGY		apply)		Seconda	
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:	ne is required; check all that			<u>Secondar</u> Surfa	<u>y Indicators (minimum of two requirence Soil Cracks (B6)</u>
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o	ne is required; check all that Water-S	Stained Leaves (B9)		<u>Secondar</u> Surfa Drair	<u>y Indicators (minimum of two requirence</u> nce Soil Cracks (B6) nage Patterns (B10)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1)	ne is required; check all that Water-S Aquatic			<u>Seconda</u> Surfa Drair Mose	<u>y Indicators (minimum of two requirence Soil Cracks (B6)</u>
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2)	ne is required; check all that Water-S Aquatic Marl De	stained Leaves (B9) Fauna (B13) posits (B15)		Secondar Surfa Drair Moss Dry-5	<u>y Indicators (minimum of two requir</u> ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3)	ne is required; check all that Water-S Aquatic Marl De Hydroge	itained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1)	ing Roots (	Secondar Surfa Drair Mose Dry-S Satu	<u>y Indicators (minimum of two requir</u> ace Soil Cracks (B6) age Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne is required; check all that Water-S Aquatic Marl De Tydroge Oxidized	stained Leaves (B9) Fauna (B13) posits (B15)	-	Secondar Surfa Drair Noss Dry-5 Satu C3)Sturi	<u>y Indicators (minimum of two requir</u> ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ne is required: check all that Water-S Aquatic Marl De Hydroge Oxidizer Presend	stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv	4)	Secondar Surfa Drair Drair Moss Dry-S Satu C3) Stun Geor	y Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne is required: check all that Water-S Aquatic Marl De Marl De Oxidized Presenc Recent	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv ze of Reduced Iron (C4 Iron Reduction in Tille	4)	Secondar Surfa Drair Mose Dry-5 Satu C3) Stuni Geor Stuni Stuni	y Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required: check all that Water-S Aquatic Marl De Marl De Oxidized Presend Recent Thin Mu	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv æ of Reduced Iron (C4	4)	Secondar Surfa Drair Moss Dry-S Satu C3) Stun Geor Shall Micro	y Indicators (minimum of two require the Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all that Water-S Aquatic Marl De Marl De Oxidizer Presend Recent Thin Mu magery (B7) Other (B	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv ce of Reduced Iron (C4 Iron Reduction in Tille ick Surface (C7)	4)	Secondar Surfa Drair Moss Dry-S Satu C3) Stun Geor Shall Micro	y Indicators (minimum of two require to Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) tow Aquitard (D3) otopographic Relief (D4)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all that Water-S Aquatic Marl De Marl De Oxidizer Presend Recent Thin Mu magery (B7) Other (B	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv ce of Reduced Iron (C4 Iron Reduction in Tille ick Surface (C7)	4)	Secondar Surfa Drair Moss Dry-S Satu C3) Stun Geor Shall Micro	y Indicators (minimum of two require to Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) tow Aquitard (D3) otopographic Relief (D4)
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Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	me is required; check all that Water-S Aquatic Marl De Hydroge Oxidizer Presend Recent Thin Mu magery (B7) Other (B Surface (B8)	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv ce of Reduced Iron (C4 Iron Reduction in Tille ick Surface (C7) Explain in Remarks)	4) d Soils (C6)	Secondar Surfa Drair Moss Dry-S Satu C3) Stun Geor Shall Micro	y Indicators (minimum of two require to Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) tow Aquitard (D3) otopographic Relief (D4)
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Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required: check all that Water-S Aquatic Marl De Tiydroge Oxidizer Presenc Recent Thin Mu magery (B7)Other (B Surface (B8)	Stained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv ce of Reduced Iron (C4 Iron Reduction in Tille ick Surface (C7) Explain in Remarks)	4) d Soils (C6)	Secondan Surfa Drair Nose Satu C3)Satu Geor )Shall Geor )Shall FAC	y Indicators (minimum of two require to Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) norphic Position (D2) tow Aquitard (D3) otopographic Relief (D4)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required: check all that Water-S Aquatic Marl De Mydroge Oxidized Presend Recent Thin Mu magery (B7) Other (B Surface (B8) es No Depth ies No Depth	itained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Liv e of Reduced Iron (C4 Iron Reduction in Tille ick Surface (C7) Explain in Remarks) (inches):	4) d Soils (C6)	Secondan Surfa Drair Drair Drair Oros Satu C3) Satu Geor ) Shall Micro FAC	y Indicators (minimum of two require ace Soil Cracks (B6) hage Patterns (B10) 5 Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4) -Neutral Test (D5)
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WETLAND DE	LINEATION	DATA FORM -	NOVA SCOTIA
Project/Site: <u>Revele Point</u>	Municipality/Co	unty: Guzs	harring L Sampling Date: Aug. Ju/14
Applicant/Owner:	·		Sampling Point: <u>M-L-T</u> -UM
		ation: An E	
Landform (hillslope, terrace, etc.): K: 11 Slope			
Slope (%): 50% Lat: 644874	Long		
Soil Map Unit Name/Type: Perchland		Wei	land Type: planed offen forcest
Are climatic / hydrologic conditions on the site typical for this	s time of year?	YesNo	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly distu	irbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	naturally problem	natic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing san	npling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?       YesN         Hydric Soil Present?       YesN         Wetland Hydrology Present?       YesN         Remarks:       (Explain alternative procedures here or in a seg		Is the Sampled within a Wetlan If yes, optional V	
VEGETATION - Use scientific names of plants.			
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> Sp	ecies? Status	Number of Dominant Species /
1. Vicre glave			That Are OBL, FACW, or FAC: (A)
3.			Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species Arborn (A/B)
Sapling/Shrub Stratum (Plot size: 500)	<u>30</u> =To	otal Cover	Prevalence Index worksheet:
	5	/ TACH	Total % Cover of: Multiply by:
1. Alous crispa 2. Galonia congastifalia	10	- Etti	OBL species         x1 =
3. Picke church	5	ZPAC	FACW species x 2 =
4			FAC species 94 x 3 = 282
5	· <u> </u>		FACU species <u>10</u> x 4 = <u>40</u>
Herb Stratum (Plot size:)	<u>2(</u> ) = T	otal Cover	UPL species $x5 =$
1. COFRUS CONFORMERS	40 .	/ EAC	Column Totals: <u>r.4</u> (A) <u>522</u> (B)
2. Brackno tern	5	- FACY	Prevalence Index = B/A = <u>5</u> j
3. Trantalis harealis	<u> </u>	<u>EAC</u>	Hydrophytic Vegetation Indicators:
4. Vaccisium vitis - iler		<u> </u>	Rapid Test for Hydrophytic Vegetation
5. Muncon Henricon Concellensis		<u> </u>	Dominance Test is >50% Prevalence Index is ≤3.0 <sup>1</sup>
6			Morphological Adaptations <sup>1</sup> (Provide supporting
78			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	4	otal Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
Remarks: (include photo numbers here or on a separate		otal Cover	
remaine. (morare photo minipers here or on a sebarate	51660.)		

Denth _ Ma		pth needed to doc	lox Features	ator or conn	ini die absence	or indicators.)
Inches Ma	<u>st) _%</u>	Color (moist)	<u>%</u>	/pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-15					cricon (	Actt
13 <sup>11</sup>	ei.				Si 1 1 1	
					- Q.	
			<u> </u>			
		•			<u> </u>	
<sup>1</sup> Type: C=Concentration, D Hydric Soil Indicators:	=Depletion, RN	M=Reduced Matrix, (	CS=Covered or (	Coated Sand		cation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Red	ov (SE)			Prairie Redox (A16)
Histic Epipedon (A2)		_ ·	Below Surface (S	58)		Aucky Peat or Peat (S3)
Black Histic (A3)		Thin Dark		,		anganese Masses (F12)
Hydrogen Sulfide (A4)			yed Matrix (F2)			ont Floodplain Soils (F19)
Stratified Layers (A5)		Depleted N			Red Pa	arent Material (TF2)
Depleted Below Dark S	• /	Redox Dar			Other	(Explain in Remarks)
Thick Dark Surface (A1			ark Surface (F7	)		120
Sandy Mucky Mineral ( Sandy Gleyed Matrix (S		Redox Dep	ressions (F8)			
Gandy Gleyed Matrix (C	) )				3.5	
<sup>3</sup> Indicators of hydrophytic ve		vetland hydrology m	ust be present, i	unless disturb	ed or problemation	D.
Restrictive Layer (if obser	ved):					
Type: Crck					1	
Type. Ly L	~				1	
Depth (inches): $2$	Sim				Hydric Soil	Present? Yes No
Depth (inches): /S	1 m				Hydric Soil	Present? Yes No
Depth (inches):	<u>Im</u>				Hydric Soil	Present? Yes No
Depth (inches):	<u>In</u>				Hydric Soil	Present? Yes <u>No</u>
Depth (inches):	Tim		-		Hydric Soil	Present? Yes <u>No</u>
Depth (inches): / Ś Remarks:	<u>Con</u>				Hydric Soil	Present? Yes <u>No</u>
Depth (inches):			L —			Present? Yes <u>No</u>
Depth (inches): / Ś Remarks: <b>IYDROLOGY</b>	ntors:	uired; check all that	apply)		Seconda	
Depth (inches): / Ć Remarks: IYDROLQGY Wetland Hydrology Indica	ntors:			89)	<u>Seconda</u>	ary Indicators (minimum of two required
Depth (inches):	ntors:	" Water-S	tained Leaves (I	B9)	<u>Seconda</u>	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10)
Depth (inches): / Ś Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimus	ntors:	Water-S Aquatic	tained Leaves (E Fauna (B13)	B9)	Seconda Suri Dra Mos	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2)	ntors:	Water-S Aquatic Marl De	tained Leaves (I		<u>Seconda</u> Suri Dra Mos Dry	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3)	itors: n of one is req	Water-S Aquatic Marl De. Hydroge	tained Leaves (E Fauna (B13) posits (B15)	(C1)	<u>Seconda</u> Suri Dra Mos Dry Sati	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	itors: n of one is req	Water-S Aquatic Marl De Hydroge	tained Leaves (F Fauna (B13) posits (B15) m Sulfide Odor (	(C1) on Living Roo	<u>Seconda</u> Suri Dra Mos Dry Sati ts (C3) Sturi	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9)
Depth (inches): / 5 Remarks: iYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ntors: n of one is req )	Water-S Aquatic Marl De. Hydroge Oxidized Presenc	tained Leaves (I Fauna (B13) posits (B15) In Sulfide Odor ( I Rhizospheres d	(C1) on Living Roo on (C4)	<u>Seconda</u> Suri Dra Dra Dry Satu ts (C3)Stu Geo	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Depth (inches): / C Remarks: iYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ntors: n of one is req )	Water-S Aquatic Marl De. Hydroge Oxidized Presend Recent	tained Leaves (I Fauna (B13) posits (B15) In Sulfide Odor ( I Rhizospheres o e of Reduced Iro	(C1) on Living Roo on (C4) n Tilled Soils (	<u>Seconda</u> Suri Dra Mos Dry Satu ts (C3) Sturi Geo (C6) Sha	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) pmorphic Position (D2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ntors: m of one is req	Water-S Aquatic Marl De. Hydroge Oxidized Presenc Recent	tained Leaves (E Fauna (B13) posits (B15) In Sulfide Odor ( I Rhizospheres o e of Reduced Ind ron Reduction in	(C1) on Living Roo on (C4) n Tilled Soils (	<u>Seconda</u> Suri Dra Dra Dry Satu ts (C3)Stu Geo (C6)Sha Mic	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) allow Aquitard (D3)
Depth (inches): / C Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ntors: n of one is req ) erial Imagery (	Water-S Aquatic Marl De. Hydroge Oxidized Presend Recent Thin Mu B7) Other (E	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7)	(C1) on Living Roo on (C4) n Tilled Soils (	<u>Seconda</u> Suri Dra Dra Dry Satu ts (C3)Stu Geo (C6)Sha Mic	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indica Primary Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	ntors: n of one is req ) erial Imagery (	Water-S Aquatic Marl De. Hydroge Oxidized Presend Recent Thin Mu B7) Other (E	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7)	(C1) on Living Roo on (C4) n Tilled Soils (	<u>Seconda</u> Suri Dra Dra Dry Satu ts (C3)Stu Geo (C6)Sha Mic	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4)
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Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present?	ntors: <u>m of one is req</u> ) erial Imagery ( pncave Surface Yes Yes	— Water-S    Aquatic    Marl De.    Hydroge    Oxidized    Presend    Presend    Thin Mu B7)Other (E     (B8)    Depth (	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7) explain in Reman inches): inches):	(C1) on Living Roo on (C4) n Tilled Soils ( tks)	Seconda	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4) C-Neutral Test (D5)
Depth (inches): / C Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present?	ntors: <u>m of one is req</u> ) erial Imagery ( pncave Surface Yes Yes Yes	<ul> <li>Water-S</li> <li>Aquatic</li> <li>Marl De.</li> <li>Hydroge</li> <li>Oxidized</li> <li>Presend</li> <li>Recent I</li> <li>Thin Mu</li> <li>B7) Other (E</li> <li>(B8)</li> <li>No Depth (E</li> <li>No Depth (E</li> </ul>	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7) explain in Reman inches): inches):	(C1) on Living Roo on (C4) n Tilled Soils ( ks)	Seconda	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) pmorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4)
Depth (inches): Remarks: <b>IYDROLOGY</b> <b>Wetland Hydrology Indica</b> <u>Primary Indicators (minimum</u> 	ntors: <u>m of one is req</u> ) erial Imagery ( pncave Surface Yes Yes Yes	<ul> <li>Water-S</li> <li>Aquatic</li> <li>Marl De.</li> <li>Hydroge</li> <li>Oxidized</li> <li>Presend</li> <li>Recent I</li> <li>Thin Mu</li> <li>B7) Other (E</li> <li>(B8)</li> <li>No Depth (E</li> <li>No Depth (E</li> </ul>	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7) explain in Reman inches): inches):	(C1) on Living Roo on (C4) n Tilled Soils ( ks)	Seconda	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4) C-Neutral Test (D5)
Depth (inches):	ntors: <u>m of one is req</u> ) erial Imagery ( pncave Surface Yes Yes Yes	<ul> <li>Water-S</li> <li>Aquatic</li> <li>Marl De.</li> <li>Hydroge</li> <li>Oxidized</li> <li>Presend</li> <li>Recent I</li> <li>Thin Mu</li> <li>B7) Other (E</li> <li>(B8)</li> <li>No Depth (E</li> <li>No Depth (E</li> </ul>	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7) explain in Reman inches): inches):	(C1) on Living Roo on (C4) n Tilled Soils ( ks)	Seconda	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4) C-Neutral Test (D5)
Depth (inches): / C Remarks: IYDROLOGY Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present?	ntors: <u>m of one is req</u> ) erial Imagery ( pncave Surface Yes Yes Yes	<ul> <li>Water-S</li> <li>Aquatic</li> <li>Marl De.</li> <li>Hydroge</li> <li>Oxidized</li> <li>Presend</li> <li>Recent I</li> <li>Thin Mu</li> <li>B7) Other (E</li> <li>(B8)</li> <li>No Depth (E</li> <li>No Depth (E</li> </ul>	tained Leaves (E Fauna (B13) posits (B15) in Sulfide Odor ( I Rhizospheres of e of Reduced Iro ron Reduction ir ck Surface (C7) explain in Reman inches): inches):	(C1) on Living Roo on (C4) n Tilled Soils ( ks)	Seconda	ary Indicators (minimum of two required face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4) C-Neutral Test (D5)

# Freshwater Wetland Data Sheet WLS

Date: Sept 2/10	
Investigator(s): C > N	Wetland Atlas Number :
Weather S to the second	GIS Map / Stand No
Weather: Topographic Sheet:	GIS Map / Stand No. : Wetland Form <sup>1</sup> :: <u>P parian TradelSuremp</u> Wetland size: <u>ha</u>
	Wetland size bo
Aerial Photo Number:	Wetland size:ha Associated Watercourse:
Wetland Type:	
1.Aquatic bed/unconsolidated bottom (AB)	4 Emergent wetlen during
	4.Emergent wetland (EW)
3.Fen (FE)	5.Shrub wetland (SB)
	6.Forested wetland (FW)
Wetland Class:	
1.Open water	5 Mar 1
2.Deep marsh	5.Meadow
3.Shallow marsh	6.Shrub swamp
4. Seasonally flooded flats	7.Wooded swamp X
	8.Bog
Wetland Subclass:	
1.Vegetated open water	
2.Non-vegetated OW	19.Floating leaved SM
3. Floating leaved OW	20.Rooted floating leaved SM
4. Rooted floating leaved OW	4 UNUR-VEDETATED SM
5. Dead woody OW	22. Emergent seasonally flooded floto
6.Vegetated deep marsh	20.011 ubby SFF
7.Non-vegetated DM	24.Grazed meadow
8.Dead woody DM	25.Ungrazed M
9.Sub-shrub DM	26.Sedge M
10.Floating leaved DM	27. Sapling shruh swamp
11. Rooted floating leaved DM	28.Bushy SS 29.Compact SS
12.Robust DM	29.Compact SS
13.Narrow-leaved DM	30.Low sparse SS
14.Broad-leaved DM	31.Deciduous wooded swamp
15 Dead woody abolition	32.Evergreen WS
15.Dead woody shallow marsh	33.Wooded bog
16.Robust SM 17.Narrow leaved SM	34.Shrubby B
18 Brood looved SM	35.Open B
18.Broad leaved SM	
Water Besime Law	
Water Regime Indicator:	
1.Permanently flooded	3 Seasonally flooded
2.Saturated X	3.Seasonally flooded
Water Donth	
<u>Water Depth:</u> 1.0-5 cm	
2 5 20 om	4.50-100 cm
2.5-20 cm	5 >100 cm
3.20-50 cm	5.>100 cm

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above _X_
Percent Vegetation Cover:         1.> 95%          2.76-95% in peripheral band          3.76-96% in patches          4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1. Deciduous trees 15% - Aur rubrum 2. Coniferous trees 55% - Abirs halfumra 3. Dead trees 5% 4. Tall shrubs 5% - 5. Low shrubs 5% - Kalania 6. Dead shrubs - 7. Herbs - 60% - Canama firm, Cevrk 8. Mosses - 100% 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) - 14. Submerged plants - 15. Other -	
Interspersion: 1.Minimal 2.Low X 3.Mediu	ım 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Lot : Mrough Llow	
<u>Wildlife:</u> (Observation/Signs/Reports) Frogs Pussing	

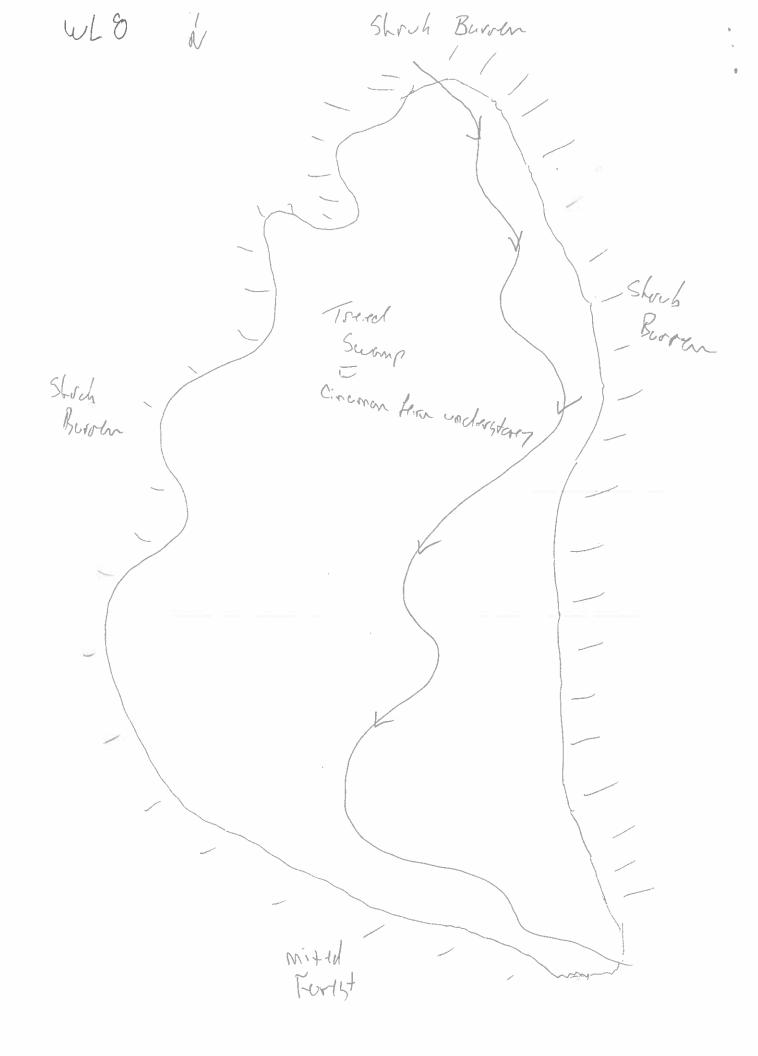
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Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest 10 30	6 Diver
3.Dykelands	7. Other <u>Geog</u> - Shorly Berron
4.Mudflats	1. Other 9-10 - Shord Derrom
Description: mixed months N; Krd	kvest
Surrounding Land Use %:	
1 Agriculture	7 Decidential
2.Forestry	7.Residential 8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description: Nand	
Disturbance: 1.Low _ Z.Moderate 3.High	1 <u> </u>
Description: North	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other _ K
Description: Brephales A / h	
Description: Rusparty Cut line	along lugt scondary
Existing Uses of Wetlands:	
1.Economic use (e.g. farming) 2.Recreational activities	4.Education & public awareness
3.Aesthetics	5. None evident_ <u>×</u>
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species _	5.Migration stop-over site
3.Habitat of rare species _X	6. None evident
Description: Refutia )	· · ·
Notes:	

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Date:       \$ 1p4. 2/10         Investigator(s):       5. 8 w 6.7         Weather:       5. 8 w 6.7         Topographic Sheet:	Wetland Atlas Number: <u>9</u> GIS Map / Stand No.: <u>C45306011</u> Wetland Form <sup>1</sup> :: <u>Depend Bos / Inter15</u> (emplo, Wetland size: <u>ha</u> Associated Watercourse:
<u>Wetland Type</u> : 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO)X 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swampX_ 8.BogX_
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM         10.Floating leaved DM         11.Rooted floating leaved DM         12.Robust DM	19.Floating leaved SM         20.Rooted floating leaved SM         21.Non-vegetated SM         22.Emergent seasonally flooded flats         23.Shrubby SFF         24.Grazed meadow         25.Ungrazed M         26.Sedge M         27.Sapling shrub swamp         28.Bushy SS         29.Compact SS         30.Low sparse SS         31.Deciduous wooded swamp         32.Evergreen WS         33.Wooded bog         34.Shrubby B         35.Open B
<u>Water Regime Indicator:</u> 1.Permanently flooded 2.Saturated <u>X</u>	3.Seasonally flooded
<u>Water Depth:</u> 1.0-5 cm 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

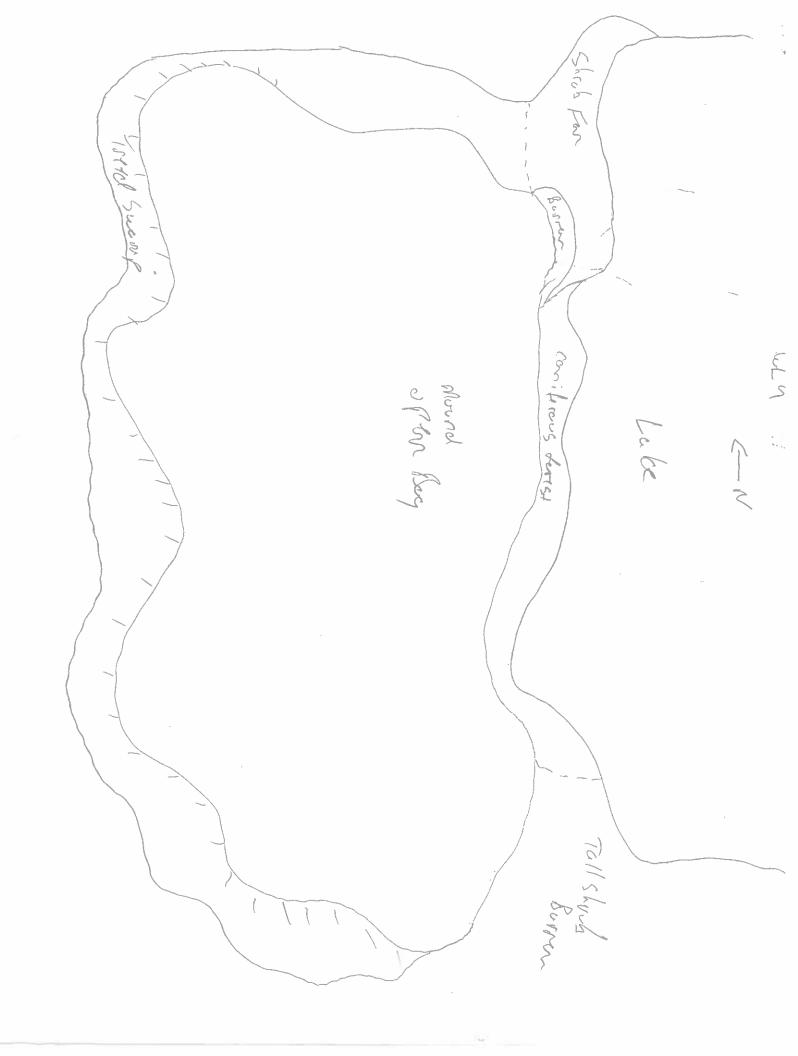
Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 3 Ducks Unlimited Impoundment 4. None of the above <u>X</u> 2.Man-made Impoundment Percent Vegetation Cover: 1.> 95% 🛛 🗙 5.26-75% in patches 2.76-95% in peripheral band 5-25% in peripheral band \_\_\_\_\_ 3.76-96% in patches 7. 5-25% in patches \_\_\_\_\_ 4.26-75% in peripheral band 8.< 5% Wetland Site: 4. Isolated  $\underline{\times}$  5. Deltaic 1.Lacustrine 2.Riverine \_\_\_\_\_ 3.Palustrine Vegetation Types (%): 1.Deciduous trees 5% - Acer Rubrum 2.Coniferous trees 15% - Picka Masima 3. Dead trees 1090 4. Tall shrubs - 550 - Almans, Vibiraum Riduw, Grayluse Mia, 5. Low shrubs - 7590 - Lidum, Balania angustitulic, Galusceric, Chamerelaphin 6. Dead shrubs -7. Herbs 1090 - Civaron Avn, Culter Fri. 8. Mosses - 10090 - Splagrum 9.Narrow-leaved emergents -10.Broad-leaved emergents -11.Robust emergents -----12.Free-floating plants -13.Floating plants (rooted) -14. Submerged plants -15. Other -Interspersion: 1.Minimal  $\underline{\mathcal{X}}$  2.Low \_\_\_\_\_ 3.Medium \_\_\_\_ 4.High \_\_\_\_ Conductivity: N/A <u>pH</u>: N/A Alkalinity: N/A Hydrological Classification: 1. Surface water depression  $\underline{X}$ 3.Surface water slope \_\_\_\_\_ 2.Ground water depression 4. Ground water slope Inlets/Outlets/water bodies: nove observed in Bog - Peripheral THEdSworp attets to lake through fan Wildlife: (Observation/Signs/Reports) Deronila

Page 2

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest <u>50%</u> 3.Dykelands <u>4.Mudflats</u> Description: mixed woods	5.Beach 6.River 7. Other <u>109</u> , Late offer 4090 - Shruhborren
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: $1.Low \times 2.Moderate \times 3.High$ Description: $1.Correct$	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description:       Norm         Existing Uses of Wetlands:       1.         1. Economic use (e.g. farming)	4.Education & public awareness 5. None evident_X
Potential Threats: <u>Special Features:</u> 1.Rare wetland type 2.Rare animal or plant species	4.Nesting site for colonial water birds 5.Migration stop-over site
3. Habitat of rare species <u>X</u> Description: <i>Puthudial</i> <u>Notes</u> : Bug is Isolated. Peripheral Bud fringt the which is connected to swomp.	6. None evident Manel Manel Subarp Coratel as circle It of they is hartic bicliorectional, wind

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· · · · · · · · · · · · · · · · · · ·	VETLAND DELINEATION	DATA FORM – NOVA SCOTIA
Project/Site: Black Pu.	Municipality/Co	unty: <u>Guighterrangh</u> Sampling Date: <u>Aug 2</u>
pplicant/Owner: Vulcon		Sampling Point: ULS - UP
nvestigator(s): <u> </u>	Affili	ation: AMEC
andform (hillslope, terrace, etc.):		Local relief (concave, convex, none): Hemmicky
	3067 Long	
bil Map Unit Name/Type:		Wetland Type: Toregel Samp
• • •		Yes No (If no, explain in Remarks.)
re Vegetation, Soil, or H		
re Vegetation, Soil, or Hy		
UMMARY OF FINDINGS – Atta	ich site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sampled Area
Hydric Soil Present?	Yes No	within a Wetland? Yes No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure	es here or in a separate report.)	
EGETATION – Use scientific na	imes of plants.	
	Absolute Do	minant Indicator Dominance Test worksheet:
Tree Stratum (Plot size:	) <u>% Cover Sp</u>	ecies? Status Number of Dominant Species
1. Holes balsanda	<u></u> <u>_</u>	That Are OBL, FACW, or FAC: (A)
2. Acer Achrunn	<u>\$</u>	Total Number of Dominant
3		Species Across All Strata: (B)
_		Percent of Dominant Species
5		——— ——— That Are OBL, FACW, or FAC:(2/2) (A/B)
Sapling/Shrub Stratum (Plot size:	- $        -$	Dtal Cover
1. AL: EGLalging	5	Total % Cover of: Multiply by:
2. USAQuada Ciarana	area 15 .	$\overrightarrow{FAC}$ OBL species $50$ x1= 50
3. Kalaria angustid		FAC FACW species $4L$ x2= $84$
4. Sashus decora		FAC species x 3 =
5		FACU species x4 =
	<u>27</u> = TC	otal Cover UPL species x 5 =
Herb Stratum (Plot size:	)	Column Totals: $91$ (A) $134$ (B)
1. Coref trisperma		
2		
3		
4		
5		
6 7		
7 8		data in Remarks or on a separate sheat)
9		
10		
	<u>50</u> = To	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:	) <u></u> =n	be present, unless disturbed or problematic.
		Hydrophytic
1		

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

SOIL	

C.*	
Sampling Point:	W18-WD)

(inches) Co	olor (moist)		<u>Joior (moist)</u>	<u> </u>		Texture		narks
C-40t			<u></u>			Crean ic	Prent	
		<u> </u>					ŝ	· · · · · ·
			· · · · · · · · · · · · · · · · · · ·					
<sup>1</sup> Type: C=Concent	ration. D=Deple	etion. RM=Re	duced Matrix.	CS=Covered or Co	ated Sand G	rains <sup>2</sup> 1 or	cation: PL=Pore Li	ning. M=Matrix
Hydric Soil Indica							for Problematic H	
Histosol (A1)		_	_ Sandy Red	dox (S5)		Coast	Prairie Redox (A16	5)
Histic Epipedo	n (A2)	_	Polyvalue	Below Surface (S8	)	5 cm M	Jucky Peat or Peat	(S3)
Black Histic (A	3)	-	Thin Dark	Surface (S9)			anganese Masses	
Hydrogen Sulfi	• •	-		eyed Matrix (F2)			ont Floodplain Soil	
Stratified Layer		_	_ Depleted N	• •			arent Material (TF2	
Depleted Below Thick Dark Sur		(ATT) _		rk Surface (F6) Dark Surface (F7)		Other	(Explain in Remark	S)
Sandy Mucky I	, ,	-		pressions (F8)				
Sandy Gleyed								
<b>*</b>								
<sup>3</sup> Indicators of hydro		on and wetlan	d hydrology m	nust be present, un	less disturbed	or problemation	C	
Restrictive Layer	(it observed):							
Туре:								. /
Type: Depth (inches): Remarks:				L 8		Hydric Soil	Present? Yes	<u>No</u>
Depth (inches): Remarks:				24		Hydric Soil	Present? Yes	<u>No</u>
Depth (inches): Remarks:				L3				
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog	y Indicators:	\$		2 t		Seconda	ary Indicators (mini	mum of two requ
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators	y Indicators: (minimum of or	\$				<u>Second</u>	ary Indicators (mini face Soil Cracks (B	mum of two requ 16)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water	y Indicators: (minimum of or (A1)	\$	check all that	Stained Leaves (B9		<u>Seconda</u> Sur Dra	ary Indicators (mini face Soil Cracks (B inage Patterns (B1	mum of two requ (6) 0)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta	y Indicators: (minimum of or (A1) ble (A2)	\$	<u>check all that</u> Water-S Aquatic	Stained Leaves (B9 Fauna (B13)		Seconda Sur Dra Mos	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16)	<u>mum of two requ</u> 96) 0)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3	y Indicators: ( <u>minimum of or</u> (A1) ble (A2) )	\$	<u>check all that</u> Water-S Aquatic Marl De	Stained Leaves (B9 Fauna (B13) eposits (B15)	)	Seconda Sur Dra Dra Dry	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat	<u>mum of two requ</u> 36) 0) ) ble (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (	y Indicators: ( <u>minimum of or</u> (A1) ble (A2) ) 31)	\$	Water-S Water-S Aquatic Marl De Hydrogo	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C	)  )	<u>Second</u> <u>Sur</u> Dra Dry Sat	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A	<u>mum of two requ</u> 16) 0) ) ble (C2) Aerial Imagery (Cl
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (i Sediment Dep	y Indicators: ( <u>minimum of or</u> (A1) ble (A2) ) 31) osits (B2)	\$	<u>check all that</u> Water-S Aquatic Marl De Thydrogu Oxidize	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sulfide Odor (C d Rhizospheres on	) I) Living Roots	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A nted or Stressed P	<u>mum of two requ</u> 16) 0) ) ble (C2) Aerial Imagery (Cl lants (D1)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3)	\$	<u>check all that</u> Water-S Aquatic Marl De Marl De Oxidize Presend	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron	) Living Roots (C4)	<u>Seconda</u> Sur Dra Dra Dry Sat (C3)Stu Geo	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A nted or Stressed Pl omorphic Position (	mum of two requ 66) 0) ble (C2) Aerial Imagery (C lants (D1) D2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4)	\$	check all that Water-S Aquatic Marl De Marl De Marl De Presend Recent	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sulfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T	) Living Roots (C4)	<u>Seconda</u> <u>Seconda</u> <u>Sur</u> <u>Dra</u> <u>Mos</u> <u>Sat</u> (C3) <u>Stu</u> <u>Gec</u> 5) <u>Sta</u>	ary Indicators (mini face Soil Cracks (B inage Patterns (B16 -Season Water Tal uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3)	mum of two requ 6) 0) ble (C2) verial Imagery (C lants (D1) D2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5)	ne is required;	<u>check all that</u> Water-S Aquatic Marl De Marl De Marl De Recent Recent Thin Mu	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron	) Living Roots (C4) ïilled Soils (C6	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu (C3) Stu Geo 3) Sha Mic	ary Indicators (mini face Soil Cracks (B inage Patterns (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia	mum of two requ 36) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) csits (B2) (B3) rust (B4) B5) ble on Aerial Ir	ne is required; nagery (B7)	<u>check all that</u> Water-S Aquatic Marl De Marl De Marl De Recent Recent Thin Mu	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T uck Surface (C7)	) Living Roots (C4) ïilled Soils (C6	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu (C3) Stu Geo 3) Sha Mic	ary Indicators (mini face Soil Cracks (B inage Patterns (B16 -Season Water Tal uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3)	mum of two requ 36) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ble on Aerial Ir tated Concave	ne is required; nagery (B7)	<u>check all that</u> Water-S Aquatic Marl De Marl De Marl De Recent Recent Thin Mu	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T uck Surface (C7)	) Living Roots (C4) ïilled Soils (C6	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu (C3) Stu Geo 3) Sha Mic	ary Indicators (mini face Soil Cracks (B inage Patterns (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia	mum of two requ 36) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits ( Algal Mat or C Iron Deposits ( Inundation Vis Sparsely Vege	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ible on Aerial In tated Concave s:	ne is required; nagery (B7) Surface (B8)	<u>check all that</u> Water-S Aquatic Marl De Marl De Marl De Recent Recent Thin Mu	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sulfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T uck Surface (C7) Explain in Remarks	) Living Roots (C4) ïilled Soils (C6	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu (C3) Stu Geo 3) Sha Mic	ary Indicators (mini face Soil Cracks (B inage Patterns (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia	mum of two requ 36) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits ( Algal Mat or C Iron Deposits ( Inundation Vis Sparsely Vege Field Observation	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) (B3) rust (B4) B5) ble on Aerial Ir tated Concave s: sent? Ye	nagery (B7) Surface (B8)	Water-S Water-S Aquatic MarI De MarI De Ndrize Oxidize Presend Recent Thin Mu Other (I	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sulfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T uck Surface (C7) Explain in Remarks	) Living Roots (C4) ïilled Soils (C6	<u>Seconda</u> Sur Dra Dra Dry Sat (C3) Stu (C3) Stu Geo 3) Sha Mic	ary Indicators (mini face Soil Cracks (B inage Patterns (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia	mum of two requ 36) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Algal Mat or C Iron Deposits ( Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Prese Saturation Present (includes capillary	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ble on Aerial Ir tated Concave s: sent? Ye nt? Ye fringe)	nagery (B7) Surface (B8) es No es No	Water-S Aquatic Aquatic Marl De Hydrogu Oxidize Presend Recent Thin Mu Other (I Depth Depth Depth	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T Juck Surface (C7) Explain in Remarks (inches):	) Living Roots (C4) iilled Soils (C0 )	Seconds	ary Indicators (mini face Soil Cracks (B inage Patterns (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia	mum of two requ 66) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4) )
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators 	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ble on Aerial Ir tated Concave s: sent? Ye nt? Ye fringe)	nagery (B7) Surface (B8) es No es No	Water-S Aquatic Aquatic Marl De Hydrogu Oxidize Presend Recent Thin Mu Other (I Depth Depth Depth	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T Juck Surface (C7) Explain in Remarks (inches):	) Living Roots (C4) iilled Soils (C0 )	Seconds	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia C-Neutral Test (D5)	mum of two requ 66) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4) )
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks ( Sediment Dep Drift Deposits Algal Mat or C Iron Deposits ( Inundation Vis Sparsely Vege Field Observation Surface Water Prese Water Table Prese Saturation Present (includes capillary	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ble on Aerial Ir tated Concave s: sent? Ye nt? Ye fringe)	nagery (B7) Surface (B8) es No es No	Water-S Aquatic Aquatic Marl De Hydrogu Oxidize Presend Recent Thin Mu Other (I Depth Depth Depth	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T Juck Surface (C7) Explain in Remarks (inches):	) Living Roots (C4) iilled Soils (C0 )	Seconds	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia C-Neutral Test (D5)	mum of two requ 66) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4) )
Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits ( Algal Mat or C Iron Deposits ( Inundation Vis Sparsely Vege Field Observation Surface Water Prese Saturation Present (includes capillary Describe Recorded	y Indicators: (minimum of or (A1) ble (A2) ) 31) osits (B2) (B3) rust (B4) B5) ble on Aerial Ir tated Concave s: sent? Ye nt? Ye fringe)	nagery (B7) Surface (B8) es No es No	Water-S Aquatic Aquatic Marl De Hydrogu Oxidize Presend Recent Thin Mu Other (I Depth Depth Depth	Stained Leaves (B9 Fauna (B13) eposits (B15) en Sutfide Odor (C d Rhizospheres on ce of Reduced Iron Iron Reduction in T Juck Surface (C7) Explain in Remarks (inches):	) Living Roots (C4) iilled Soils (C0 )	Seconds	ary Indicators (mini face Soil Cracks (B inage Patterns (B1 ss Trim Lines (B16) -Season Water Tat uration Visible on A nted or Stressed P omorphic Position ( allow Aquitard (D3) rotopographic Relia C-Neutral Test (D5)	mum of two requ 66) 0) ble (C2) Aerial Imagery (C lants (D1) D2) ef (D4) )

WETLAND DELINEATION D		
Project/Site: Bluck Point Municipality/Cour	nty: Griges	Sampling Date: AUC 12/14
Applicant/Owner:	/	Sampling Point: <u>L_&amp;</u> -CP1
Investigator(s): Affiliati	ion: AME	<u> </u>
		concave, convex, none):
Slope (%): Lat: Long: Long:	5022	587 Datum: WASES
Soil Map Unit Name/Type:	Wet	land Type: Colored - Mideel Ferest
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "I	Normal Circumstances" present? Yes <u>///</u> No
Are Vegetation, Soil, or Hydrology naturally problema	itic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	oling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?     Yes No       Hydric Soil Present?     Yes No	Is the Sampled within a Wetlan	
		Vetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	ii yes, optional v	
VEGETATION – Use scientific names of plants.		
Tree Stratum         (Plot size:         Absolute         Dom           Model         Model	inant Indicator	Dominance Test worksheet:
1. Hhigh half min 15	FAC	Number of Dominant Species (A)
2. Acerscheime 15	FAC	
3. Piele meriane 5	- FALL	Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 500)	al Cover	Prevalence Index worksheet:
1. Actor Republic Min Months I U	< FAC	Total % Cover of: Multiply by:
2. La Signun Alchipp , and -	FAC	OBL species x 1 =
3. Celonic ongust: fellia 5	< FAC	FACW species $2 = 14$
4	<u> </u>	FAC species $(0.4)$ x 3 = $(G_3)$
b. $2c_2 = Tota$		FACU species x 4 = UPL species x 5 =
(FIOLSIZE. (17)		Column Totals: <u>71</u> (A) <u>ZerCe</u> (B)
1. Atomlica puckiewalig 5	EAC	
2. If what is but alis 5	$\angle FAc$	Prevalence Index = B/A = 2.9
3 Ducchium oncust talium 2	- AC	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
5. Centis NI Farlin 2	- FAC	Dominance Test is >50%
6	-	Prevalence Index is ≤3.0 <sup>1</sup>
7		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	al Cover	be present, unless disturbed or problematic.
1		Hydrophytic
2		Vegetation
	al Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)		

X

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Profile Description: (Describe t	o the depth ne	eded to document the indicate	or or confirm	the absence	of indicators.)	
Depth Matrix		Redox Features				
(inches) Color (moist)	<u>%</u> C	olor (moist) % Type	Loc <sup>2</sup>			Remarks
0-70			C	Monie	N.H	
701-30 2,545/1	14.35.5		,	SILL		
<u> </u>			,	217 60	Tapp	
	22					
<sup>1</sup> Type: C=Concentration, D=Deple	etion, RM=Red	uced Matrix, CS=Covered or Co	ated Sand Gra	ains. <sup>2</sup> Loc	ation: PL=Pore	ELining, M=Matrix.
Hydric Soil Indicators:						ic Hydric Soils <sup>3</sup> :
Histosol (A1)	<u></u>	Sandy Redox (S5)		Coast I	Prairie Redox (/	A16)
Histic Epipedon (A2)	_	Polyvalue Below Surface (S8)	)	5 cm M	lucky Peat or P	eat (S3)
Black Histic (A3)	_	_ Thin Dark Surface (S9)		Iron-Ma	anganese Mass	ses (F12)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmo	ont Floodplain S	Soils (F19)
Stratified Layers (A5)		Depleted Matrix (F3)		Red Pa	arent Material (*	TF2) 📰
Depleted Below Dark Surface		_ Redox Dark Surface (F6)		Other (	Explain in Rem	arks)
Thick Dark Surface (A12)		_ Depleted Dark Surface (F7)				
Sandy Mucky Mineral (S1)	_	_ Redox Depressions (F8)				
Sandy Gleyed Matrix (S4)						
<sup>3</sup> Indicators of hydrophytic vegetati Restrictive Layer (if observed):		hydrology must be present, unl	ess disturbed (	or problematic		
	· ·		ess disturbed			es No_
Restrictive Layer (if observed): Type: Depth (inches):	· ·		ess disturbed			es No
Restrictive Layer (if observed): Type:	· ·		ess disturbed o			es No
Restrictive Layer (if observed): Type: Depth (inches):	· ·		ess disturbed d			es No <u>//</u>
Restrictive Layer (if observed): Type: Depth (inches):	· ·		ess disturbed d			es No
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	· ·		ess disturbed o			es No
Restrictive Layer (if observed): Type: Depth (inches): Remarks: IYDROLOGY	· ·		ess disturbed d	Hydric Soil	Present? Ye	
Restrictive Layer (if observed): Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:	<u>N.</u>	· · · · · · · · · · · · · · · · · · ·	ess disturbed d	Hydric Soil	Present? Ye	ninimum of two requir
Restrictive Layer (if observed): Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or	<u>N.</u>	check all that apply)		Hydric Soil	Present? Ye ry Indicators (n ace Soil Cracks	ninimum of two requir s (B6)
Restrictive Layer (if observed): Type: Depth (inches): Remarks:  HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1)	<u>N.</u>	check all that apply) Water-Stained Leaves (B9)		Hydric Soil	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns (	ninimum of two requir s (B6) (B10)
Restrictive Layer (if observed): Type: Depth (inches): Remarks:  HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2)	<u>N.</u>	check all that apply) Water-Stained Leaves (B9 Aquatic Fauna (B13)		Hydric Soil	Present? Ye ny Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B	ninimum of two requir s (B6) (B10) s16)
Restrictive Layer (if observed): Type: Depth (inches): Remarks:	<u>N.</u>	<u>check all that apply)</u> Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	)	Hydric Soil Seconda Surf Drai Mos Dry-	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water	ninimum of two requir s (B6) (B10) t16) Table (C2)
Restrictive Layer (if observed): Type: Depth (inches): Remarks:  HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<u>N.</u>	<u>check all that apply)</u> <u>Water-Stained Leaves (B9)</u> Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1	)	Hydric Soil Seconda Seconda Surf Drai Mos Dry- Satu	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible c	ninimum of two requir s (B6) (B10) 116) Table (C2) on Aerial Imagery (C9)
Restrictive Layer (if observed):         Type:         Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of or         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	<u>N.</u>	<u>heck all that apply)</u> Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on	) Living Roots ((	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible c ited or Stressed	ninimum of two requir s (B6) (B10) 116) Table (C2) on Aerial Imagery (C9) d Plants (D1)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	<u>N.</u>	<ul> <li><u>check all that apply</u>)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1</li> <li>Oxidized Rhizospheres on</li> <li>Presence of Reduced Iron</li> </ul>	) ) Living Roots (( (C4)	Hydric Soil Seconda Seconda Drai Mos Satu C3) Geo	Present? Ye rv Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible c ited or Stressed morphic Positio	ninimum of two requir s (B6) (B10) 116) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2)
Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of or         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	<u>N.</u>	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T	) ) Living Roots (( (C4)	Hydric Soil Seconda Surf Drai Mos Dry- Satu C3) Stur Geo Sha	Present? Ye rv Indicators (n ace Soil Cracks nage Patterns (B Season Water iration Visible o ited or Stressed morphic Positio llow Aquitard ([	ninimum of two requir s (B6) (B10) 316) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) D3)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: <b>HYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of or 	ne is required; a	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	) Living Roots ( (C4) illed Soils (C6)	Hydric Soil Seconda Surf Drai Mos Dry- Satu C3) Stur Geo Sha	Present? Ye rv Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible c ited or Stressed morphic Positio	ninimum of two requir s (B6) (B10) 316) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) D3)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: <b>HYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of or 	ne is required; of magery (B7)	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T	) Living Roots ( (C4) illed Soils (C6)	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur Geo Stur Geo Mos Stur Satu C3) Stur Geo Mos Stur Satu	Present? Ye rv Indicators (n ace Soil Cracks nage Patterns (B Season Water iration Visible o ited or Stressed morphic Positio llow Aquitard ([	ninimum of two requir s (B6) (B10) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or 	ne is required; of magery (B7)	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	) Living Roots ( (C4) illed Soils (C6)	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur Geo Stur Geo Mos Stur Satu C3) Stur Geo Mos Stur Satu	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible o iration Visible o ted or Stressed morphic Positio llow Aquitard (I otopographic F	ninimum of two requir s (B6) (B10) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: <b>HYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of or 	ne is required; of magery (B7)	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	) Living Roots ( (C4) illed Soils (C6)	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur Geo Stur Geo Mos Stur Satu C3) Stur Geo Mos Stur Satu	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible o iration Visible o ted or Stressed morphic Positio llow Aquitard (I otopographic F	ninimum of two requir s (B6) (B10) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: Primarks: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algai Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ir Sparsely Vegetated Concave Field Observations:	ne is required; ( magery (B7) 9 Surface (B8)	check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7)	) Living Roots (( (C4) illed Soils (C6)	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur Geo Stur Geo Mos Stur Satu C3) Stur Geo Mos Stur Satu	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible o iration Visible o ted or Stressed morphic Positio llow Aquitard (I otopographic F	ninimum of two requir s (B6) (B10) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Restrictive Layer (if observed): Type: Depth (inches): Remarks: TYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of or 	magery (B7) Surface (B8) es No	Check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on Presence of Reduced Iron Recent Iron Reduction in T Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	) Living Roots (( (C4) illed Soils (C6)	Hydric Soil Seconda Seconda Drai Mos Dry- Satu C3) Stur Geo Stur Geo Mos Stur Satu C3) Stur Geo Mos Stur Satu	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible o iration Visible o ted or Stressed morphic Positio llow Aquitard (I otopographic F	ninimum of two requir s (B6) (B10) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) O3) Relief (D4)
Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of or         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Ir         Sparsely Vegetated Concave         Field Observations:         Surface Water Present?         Yet         Water Table Present?	magery (B7) e Surface (B8) es No _ es No _	<ul> <li><u>check all that apply</u>)</li> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1</li> <li>Oxidized Rhizospheres on</li> <li>Presence of Reduced Iron</li> <li>Recent Iron Reduction in T</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	) Living Roots (( (C4) illed Soils (C6)	Hydric Soil  Seconda  Surf  Surf  Mos  Satu  C3)  Satu  C3)  FAC	Present? Ye ry Indicators (n ace Soil Cracks nage Patterns ( s Trim Lines (B Season Water iration Visible o iration Visible o ted or Stressed morphic Positio llow Aquitard (I otopographic F	ninimum of two requir s (B6) (B10) 116) Table (C2) on Aerial Imagery (C9) d Plants (D1) on (D2) D3) Relief (D4) D5)

Remarks:

### Freshwater Wetland Data Sheet ULIO

V C2 12	
Data CIAL P.110	
Date: Set C/Q	vvetiand Atlas Number:
Investigator(s): <u>S. Burley</u>	Wetland Atlas Number : <u>21/90</u> GIS Map / Stand No.: <u>C4535 611 21</u> / C4530611
Weather: Sunny	
Topographic Sheet:	Wetland size: <u>ha</u>
Aerial Photo Number:	Associated Watercourse:
Wetland Type:	
1.Aquatic bed/unconsolidated bottom (AB)	4.Emergent wetland (EW)
2.Bog(BO)	5.Shrub wetland (SB)
3.Fen (FE)	6.Forested wetland (FW)
Wetland Class:	
1.Open water	5.Meadow
2 Deep marsh	6.Shrub swamp
3.Shallow marsh	7.Wooded swamp
4.Seasonally flooded flats	8.Bog X
Wetland Subclass:	
1.Vegetated open water	19.Floating leaved SM
2.Non-vegetated OW	20.Rooted floating leaved SM
3.Floating leaved OW	21.Non-vegetated SM
4.Rooted floating leaved OW	22.Emergent seasonally flooded flats
5.Dead woody OW	23.Shrubby SFF
6.Vegetated deep marsh	
	24.Grazed meadow
7.Non-vegetated DM	25.Ungrazed M
8.Dead woody DM	26.Sedge M
9.Sub-shrub DM	27.Sapling shrub swamp
10 Floating leaved DM	28.Bushy SS
11.Rooted floating leaved DM	29.Compact SS
12.Robust DM	30.Low sparse SS
13.Narrow-leaved DM	31.Deciduous wooded swamp
14.Broad-leaved DM	32.Evergreen WS
15.Dead woody shallow marsh	33.Wooded bog
16 Robust SM	34.Shrubby B
17.Narrow leaved SM	35.Open B
18.Broad leaved SM	
Water Regime Indicator:	
1.Permanently flooded	3.Seasonally flooded
2.Saturated	
Water Depth:	
1.0-5 cm <u>×</u>	4.50-100 cm
2.5-20 cm	5.>100 cm
3.20-50 cm	
Notes 4. Openedice Multiple I Objective Contest (Co.	

Note: 1. Canadian Wetland Classification System (2nd Edition)

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Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the aboveX_
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u>×</u> 5.Deltaic <u> </u>
Vegetation Types (%): 1.Deciduous trees 2.Coniferous trees 3.Dead trees 4.Tall shrubs 5.Low shrubs 6.Dead shrubs 7.Herbs 8.Mosses 9.Narrow-leaved emergents 10.Broad-leaved emergents 11.Robust emergents 12.Free-floating plants 13.Floating plants (rooted) 14.Submerged plants 15. Other	
Interspersion: 1.Minimal 2.Low 3.Mediu	m 4.High
Conductivity: N/A Alkalinity: N/A	<u>pH</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression         Inlets/Outlets/water bodies:	3. Surface water slope 4. Ground water slope 5. Diver Bey - Ruin yuhr Driven
Norte ubserved	

Wildlife: (Observation/Signs/Reports)

Deer Signs

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest <u>1070</u> 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other <u>308</u> Burrow
Description: mixed woods	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: Nor	
Disturbance: 1.Low X 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evidentX
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species Description: Puth find	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
Notes:	

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4610 个 V Conitivous A ( Barren oper Bog 父 B.Spro e Funder pool Property Cutlin 不 7

			- NOVA SCOTIA
		unty: Grugs	Lange Sampling Date: AU. La
oplicant/Owner:			Sampling Point: 12-10-091
	Affilia		
ndform (hillslope, terrace, etc.):			(concave, convex, none): CCMUL
ope (%): Lat:	Long		BOT Datum: NADES
il Map Unit Name/Type: <u>Kcc.Man.d</u>		We	etland Type:Karch Kerch
e climatic / hydrologic conditions on the site typical for t	his time of year?	/es No	(If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology	significantly distu	rbed? Are '	"Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology	_ naturally problem	atic? (If ne	eeded, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map	showing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	
lydric Soil Present? Yes	No	within a Wetlar	
	No	If yes, optional \	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a s	eparate report.)		
EGETATION - Use scientific names of plant			
		ninant Indicator	Dominance Test worksheet:
<u>ree Stratum</u> (Plot size: <u>/O.M</u> )	<u>% Cover</u> Spe	cies? <u>Status</u>	Number of Dominant Species
Levik lucacinca		FAC	That Are OBL, FACW, or FAC:(A)
dille mariana		FML	Total Number of Dominant
·			Species Across All Strata: (B)
			Percent of Dominant Species
·		tal Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5 00	<u> </u>		Prevalence Index worksheet:
Repris partes Automate		<u>FAC</u>	Total % Cover of:Multiply by:
Picker Mariana	- 30	~ Ettu	OBL species $20$ x1 = $20$
Agylugacia Succotta			FACW species $5$ $x_2 = 6$ $4$
vition avelun		<u>FAC</u>	FAC species $33 = 249$
·	<u>/(/c)</u> = To	tal Cauar	FACU species x4 =
Herb Stratum (Plot size: 100)	<u>////</u> -10	tal Cover	Column Totals: <u>37</u> (A) <u>341</u> (B)
Sciepus Cruspitores		< OBL	
Ellonia porti portion		$\angle oBL$	Prevalence Index = $B/A = 2.5$
Surveying pupperter		$\leq \underline{ogL}$	Hydrophytic Vegetation Indicators:
Isucon Fron		- FACU	Rapid Test for Hydrophytic Vegetation
CORDUS CUM CHARGES		< ctc	∠ Dominance Test is >50%     Prevalence Index is ≤3.0 <sup>1</sup>
Despice charges	- <u> </u>	- CAC	Morphological Adaptations <sup>1</sup> (Provide supporting
Der C invien	<u></u>	FAC	data in Remarks or on a separate sheet)
Bull upplie		- URL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0			
Voody Vine Stratum (Plot size:)	<u></u>	tal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·			Hydrophytic
·			Vegetation
	= To	tal Cover	Present? Yes No No
temarks: (Include photo numbers here or on a separat			

JOIL	S	0	IL	
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### Sampling Point: Let 10-491

1-4 cit			Color (moist)		Loc-	Texture	Remarks
				·····		Collins is	=
· ·							
						····	
ype: C≖Conce rdric Soil Indi		etion, RM=Re	educed Matrix, CS=C	overed or Coate	d Sand G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1			Condu Dodoy (C	= )			-
_ Histic Epipe			Sandy Redox (S Polyvalue Below		2		t Prairie Redox (A16) Mucky Peat or Peat (S3)
Black Histic			Folyvalue Below Thin Dark Surface				Manganese Masses (F12)
_ Hydrogen S			Loamy Gleyed M				nont Floodplain Soils (F19)
Stratified La			Depleted Matrix				Parent Material (TF2)
	elow Dark Surface	•	Redox Dark Surl	· · · /			(Explain in Remarks)
_ Thick Dark \$		. , .	Depleted Dark S				(
	ky Mineral (S1)		Redox Depression	1 /			
	ed Matrix (S4)				28		
ndicators of hy	drophytic vegetati	ion and wetla	nd hydrology must be	nresent unless	: disturber	l or problemat	ic
	er (if observed):						
Туре:			-				
••	s):	32	- 			Hydric So	il Present? Yes No
Depth (inche: emarks:	s):	-2	- 			Hydric So	il Present? Yes <u>No</u> No
Depth (inches emarks: /DROLOGY	s):	-3	- - - -			A 2	Il Present? Yes No
Depth (inches emarks: /DROLOGY	s): / logy Indicators:	.2	check all that apply	)		Second	
Depth (inches emarks: /DROLOGY	s): / logy Indicators: prs (minimum of o	.2	; check all that apply			Second	Jary Indicators (minimum of two require
Depth (inches emarks: /DROLOGY /etland Hydrol	s): logy Indicators: rs (minimum of or ter (A1)	.2	; check all that apply	d Leaves (B9)		<u>Secono</u> Su Dr	Jary Indicators (minimum of two require rface Soil Cracks (B6)
Depth (inches emarks: <b>DROLOGY</b> <b>retland Hydro</b> <b>rimary Indicato</b> _ Surface Wa _ High Water	s): logy Indicators: rs (minimum of or ter (A1) Table (A2)	.2	; check all that apply	1 Leaves (B9) a (B13)		<u>Second</u> Su Dr. Mo	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16)
Depth (inches emarks: DROLOGY etland Hydroi imary Indicato _ Surface Wa _ High Water _ Saturation (	s): logy Indicators: ors (minimum of or ter (A1) Table (A2) A3)	.2	; check all that apply Water-Stained Aquatic Fauna Marl Deposits	d Leaves (B9) a (B13) (B15)		<u>Second</u> Su Dr. Mc Dr	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2)
Depth (inches emarks: <b>'DROLOGY</b> <b>'etland Hydro</b> <u>cimary Indicato</u> Surface Wa High Water Saturation ( <b>C</b> Water Marks)	s): logy Indicators: ors (minimum of or ter (A1) Table (A2) A3) s (B1)	.2	<u>; check all that apply</u> Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul	d Leaves (B9) a (B13) (B15) fide Odor (C1)	ing Roots	<u>Second</u> Su Dr Nc Dr Sa	lary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9)
Depth (inches emarks: <b>DROLOGY</b> <b>etland Hydro</b> <u>timary Indicato</u> _ Surface Wa _ High Water _ Saturation ( Water Mark _ Sediment D	s): logy Indicators: ars (minimum of on ter (A1) Table (A2) A3) s (B1) eposits (B2)	.2	: check all that apply Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul Oxidized Rhiz	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv	-	<u>Second</u> Su Dr Mr Dr Sa (C3)Str	lary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
Depth (inches emarks: <b>DROLOGY</b> <b>etland Hydro</b> <b>imary Indicato</b> _ Surface Wa _ High Water _ Saturation ( <b>W</b> ater Mark _ Sediment D _ Drift Deposi	s): logy Indicators: prs (minimum of or ter (A1) Table (A2) A3) s (B1) reposits (B2) ts (B3)	.2	: check all that apply Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul Oxidized Rhiz Presence of F	d Leaves (B9) a (B13) (B15) fide Odor (C1) iospheres on Liv Reduced Iron (C4	4)	<u>Second</u> Su Dr Dr Dr Dr Sa (C3)Stt Ge	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) pss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Depth (inches emarks: <b>DROLOGY</b> <b>etland Hydrol</b> <b>imary Indicato</b> Surface Wa High Water Saturation ( <b>f</b> Water Mark Sediment D Drift Deposi Algal Mat or	s): logy Indicators: rs (minimum of or ter (A1) Table (A2) A3) s (B1) reposits (B2) ts (B3) r Crust (B4)	.2	: check all that apply Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller	4)	<u>Second</u> Su Dr Nd Dr Sa (C3)St Ge 6)Sh	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3)
Depth (inches emarks: <b>DROLOGY</b> <b>retland Hydrol</b> <b>rimary Indicato</b> Surface Wa High Water Saturation ( Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi	s): logy Indicators: rrs (minimum of or ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5)	ne is required	<ul> <li><u>check all that apply</u></li> <li>Water-Stained</li> <li>Aquatic Fauna</li> <li>Marl Deposits</li> <li>Hydrogen Sul</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> <li>Thin Muck Su</li> </ul>	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller rface (C7)	4)	<u>Second</u> Su Su Dr Na Sa (C3)St St Ge 6)Sh Mi	dary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4)
Depth (inches emarks: DROLOGY etland Hydrol imary Indicato 	s): logy Indicators: rs (minimum of or ter (A1) Table (A2) A3) s (B1) reposits (B2) ts (B3) r Crust (B4)	ne is required magery (B7)	<ul> <li><u>check all that apply</u></li> <li>Water-Stained</li> <li>Aquatic Fauna</li> <li>Marl Deposits</li> <li>Hydrogen Sul</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> <li>Thin Muck Su</li> <li>Other (Explain</li> </ul>	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller rface (C7)	4)	<u>Second</u> Su Su Dr Na Sa (C3)St St Ge 6)Sh Mi	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3)
Depth (inches emarks: <b>DROLOGY</b> etland Hydrol imary Indicato Surface Wa High Water Saturation ( Water Marka Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation V Sparsely Ve	s): logy Indicators: ors (minimum of or ter (A1) Table (A2) A3) s (B1) reposits (B2) its (B3) r Crust (B4) ts (B5) visible on Aerial In orgetated Concave	ne is required magery (B7)	<ul> <li><u>check all that apply</u></li> <li>Water-Stained</li> <li>Aquatic Fauna</li> <li>Marl Deposits</li> <li>Hydrogen Sul</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> <li>Thin Muck Su</li> <li>Other (Explain</li> </ul>	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller rface (C7)	4)	<u>Second</u> Su Su Dr Na Sa (C3)St St Ge 6)Sh Mi	dary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4)
Depth (inches emarks: <b>DROLOGY</b> <b>etland Hydro</b> <b>imary Indicato</b> Surface Wa High Water Saturation ( Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation N Sparsely Ve <b>eld Observati</b>	s): logy Indicators: ors (minimum of or ter (A1) Table (A2) A3) s (B1) reposits (B2) its (B3) r Crust (B4) ts (B5) visible on Aerial In orgetated Concave ions:	ne is required magery (B7)	: check all that apply Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Other (Explain	d Leaves (B9) a (B13) (B15) fide Odor (C1) toospheres on Liv Reduced Iron (C4 teduction in Tilled rface (C7) in in Remarks)	4)	<u>Second</u> Su Su Dr Na Sa (C3)St St Ge 6)Sh Mi	dary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4)
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Depth (inches emarks: DROLOGY etland Hydrol imary Indicato Surface Wa High Water Saturation ( Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation N Sparsely Ve eld Observati wrface Water Fr ater Table Pre- aturation Presen cludes capilla	s): logy Indicators: rrs (minimum of or ter (A1) Table (A2) A3) s (B1) leposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on Aerial In egetated Concave ions: Present? Yo esent? Yo ent? Yo ent? Yo	magery (B7) a Surface (B8) es No es No es No	<ul> <li><u>check all that apply</u></li> <li>Water-Stained</li> <li>Aquatic Fauna</li> <li>Marl Deposits</li> <li>Hydrogen Sul</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> <li>Thin Muck Su</li> <li>Other (Explain</li> </ul>	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller rface (C7) n in Remarks) s): s): s):	4) d Soils (C	Second Su Dr Nr Sa (C3)Str Ge 6)Str Str	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4) (C-Neutral Test (D5)
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Depth (inches emarks: DROLOGY etland Hydrol imary Indicato Surface Wa High Water Saturation ( Water Mark Saturation ( Water Mark Saturation ( Water Mark Saturation ( Water Mark Saturation ( Water Mark Saturation ( Sparsely Ve eld Observati unface Water F fater Table Pre- aturation Prese coludes capilla	s): logy Indicators: rrs (minimum of or ter (A1) Table (A2) A3) s (B1) leposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on Aerial In egetated Concave ions: Present? Yo esent? Yo ent? Yo ent? Yo	magery (B7) a Surface (B8) es No es No es No	: check all that apply Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Other (Explain Depth (inche Depth (inche Depth (inche	d Leaves (B9) a (B13) (B15) fide Odor (C1) cospheres on Liv Reduced Iron (C4 reduction in Tiller rface (C7) n in Remarks) s): s): s):	4) d Soils (C	Second Su Dr Nr Sa (C3)Str Ge 6)Str Str	Jary Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) oss Trim Lines (B16) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4) (C-Neutral Test (D5)

WETLAND DEL		DATA FORM -	- NOVA SCOTIA
Project/Site: Black Peint	Municipality/Cou	unty: Grag	beau ug L Sampling Date: Alg. 22/12
Applicant/Owner: (Acaleina			Sampling Point: [/_////
	Affilia	ation: AM	<u>fc</u>
Landform (hillslope, terrace, etc.): Hill Sopre	-	Local relief	(concave, convex, none): <u>hummaling</u>
Siope (%): Lat: Lat:	Long	5013	5 <u>180</u> Datum: <u>NAV83</u>
Soil Map Unit Name/Type:		We	tland Type: Uplend -Barren
Are climatic / hydrologic conditions on the site typical for this	time of year? \	/	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology si	ignificantly distu		'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the Sampled within a Wetlar	
Hydric Soil Present? Yes No			
Wetland Hydrology Present?         Yes No           Remarks:         (Explain alternative procedures here or in a sep.)		If yes, optional V	Wetland Site ID:
Tremaines. (Explain alternative procedules here of in a sep	arate report.)		
VEGETATION – Use scientific names of plants.			
	Absolute Do	ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: /:		ecies? Status	Number of Dominant Species
1. Ficke Ausiana	10 _	<u></u> EACY	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size; 500)	-112 = To	tai Cover	Prevalence Index worksheet;
1. LR program to S Murisman for	ć	EL.	
2. Day 1250 Cito Survey Ato	200 .	- FAC	Total % Cover of:     Multiply by:       OBL species     227     x 1 =
	10	- FATL	FACW species $20$ $x^2 = 40$
4. Vibitauna Auduna	<u> </u>	i Ac	FAC species $57 \times 3 = (71)$
5			FACU species x4 =
	412 = TO	tal Cover	UPL species x 5 =
Herb Stratum (Plot size:)			Column Totals: 77 (A) 211 (B)
1. Kellmin millet bellin	10 -	<u> cac</u>	
2. I Simpalis bertalis	10	- FAC	Prevalence Index = $B/A = 2.7$
3. MG. a Jennin Cernillion 5.5			Hydrophytic Vegetation Indicators:
4. Vaccinium conglight follow	! <b>?</b>	<u> </u>	Rapid Test for Hydrophytic Vegetation
5	·		Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10	27 = TO		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u></u> = To	cal Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Monototion
	= To		Present? Yes <u>No</u>
Remarks: (include photo numbers here or on a separate s			
· · · · · · · · · · · ·			

JUIL
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24	
Sampling Point:	Whater M
- 4 1	

Depth Mat		Rego	x Features				
(inches) Color (mois	t) %	Color (moist)	<u>%</u> Type <sup>1</sup>	Loc <sup>2</sup> T	exture	Remarks	
2-20				01	Comic	Butt	
<sup>1</sup> Type: C=Concentration, D=	-Depletion PM	-Peduced Matrix, CS		Sand Grains	21 ocation	n: PL=Pore Lining, M	-Motrix
Hydric Soil Indicators:	-Depletion, rtw	-Iteduced Matrix, oc	-covered of coalec			Problematic Hydric S	
-		Condy Doda	(05)			-	iona .
Histosol (A1)		Sandy Redox				ie Redox (A16)	
Histic Epipedon (A2)		Polyvalue Be				y Peat or Peat (S3)	
Black Histic (A3)		Thin Dark Su		-		inese Masses (F12)	
Hydrogen Sulfide (A4)		Loamy Gleye		-		loodplain Soils (F19)	
Stratified Layers (A5)	*	Depleted Mat				Material (TF2)	
Depleted Below Dark So		Redox Dark S	• •	-	_ Other (Expl	lain in Remarks)	
Thick Dark Surface (A1:			k Surface (F7)				
Sandy Mucky Mineral (S	•	Redox Depre	essions (F8)				
Sandy Gleyed Matrix (S	4)						
Type:	e IC						
	e IC			н	ydric Soil Pres	sent? Yes	No <u>د</u>
Type: Kal no	e IC			H	ydric Soil Pres	sent? Yes	No <u>- L</u>
Type: <u>Kelon</u> Depth (inches): <u>Co</u>	e IC	 		H	ydric Soil Pres	sent? Yes	No <u>- 4</u>
Type: <u>Kelon</u> Depth (inches): <u>Co</u>	e IC			H	ydric Soil Pres	sent? Yes	No <u>4</u>
Type: <u>Kelon</u> Depth (inches): <u>Co</u>	e IC			H	ydric Soil Pre	sent? Yes	No <u>1</u>
Type: <u>Kalan</u> Depth (inches): <u>200</u> Remarks:	e IC			H	ydric Soil Pres	sent? Yes	No <u>*</u>
Type: <u>Kalan</u> Depth (inches): <u>200</u> Remarks:	<u>ell</u>			H			
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica	tors:			H	Secondary Ir	ndicators (minimum of	
Type: <u>Kalan</u> Depth (inches): <u>200</u> Remarks:	tors:				Secondary Ir		
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indica	tors:	ired; check all that ap	pply) ined Leaves (B9)		<u>Secondary Ir</u> Surface	ndicators (minimum of	
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun	tors:	ired; check all that ap	ined Leaves (B9)		Secondary Ir Surface Drainage	ndicators (minimum of Soil Cracks (B6)	
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)	tors:	ired; check all that ap Water-Sta Aquatic Fa	ined Leaves (B9) auna (B13)		<u>Secondary Ir</u> Surface Drainage Moss Tri	<u>ndicators (minimum of</u> Soil Cracks (B6) e Patterns (B10) im Lines (B16)	two requ
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	tors:	i <u>red; check all that ap</u> Water-Stai Aquatic Fa Marl Depo	ined Leaves (B9) auna (B13) sits (B15)		Secondary Ir Surface Drainage Moss Tri Dry-Sea	ndicators (minimum of Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2)	two requ
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	tors:	i <u>red; check all that ap</u> Water-Sta Aquatic Fa Marl Depo Hydrogen	ined Leaves (B9) auna (B13) sits (B15) Sulfide Odor (C1)		Secondary Ir Surface Drainage Moss Tri Dry-Sea Saturatio	ndicators (minimum of Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) on Visible on Aerial Im	two requ
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	tors:	ired; check all that ap Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F	ined Leaves (B9) auna (B13) sits (B15) Sulfide Odor (C1) Rhizospheres on Livi	ng Roots (C3)	Secondary Ir Surface Drainage Moss Tri Dry-Sea Saturatio Sturated	ndicators (minimum of Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) on Visible on Aerial Im or Stressed Plants (D	two requ
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	tors:	ired; check all that an Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence	ined Leaves (B9) auna (B13) sits (B15) Sulfide Odor (C1) Rhizospheres on Livi of Reduced Iron (C4	ng Roots (C3)	Secondary Ir Surface Drainage Moss Tri Dry-Sea Saturatio Stunted Geomor	ndicators (minimum of Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) on Visible on Aerial Im or Stressed Plants (D phic Position (D2)	two requ
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	tors:	ired: check all that an Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro	ined Leaves (B9) auna (B13) sits (B15) Sulfide Odor (C1) Rhizospheres on Livi of Reduced Iron (C4 n Reduction in Tilled	ng Roots (C3)	Secondary Ir Surface Drainage Moss Tri Dry-Sea Saturatic Stunted Geomor Shallow	ndicators (minimum of Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) on Visible on Aerial Im or Stressed Plants (D phic Position (D2) Aquitard (D3)	two requ
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#### **Freshwater Wetland Data Sheet**

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Date: Sent 2, 2010 Investigator(s): <u>S. Mably</u> , <u>N. Ymsc</u> Weather: <u>Mury</u> , <u>hof</u> : Topographic Sheet: <u> </u>	Wetland Atlas Number :
<u>Wetland Type</u> : 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swamp 8.Bog
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM	19. Floating leaved SM         20. Rooted floating leaved SM         21. Non-vegetated SM         22. Emergent seasonally flooded flats         23. Shrubby SFF         24. Grazed meadow         25. Ungrazed M         26. Sedge M         27. Sapling shrub swamp         28. Bushy SS         29. Compact SS         30. Low sparse SS         31. Deciduous wooded swamp         32. Evergreen WS         33. Wooded bog         34. Shrubby B
Water Regime Indicator: 1.Permanently flooded 2.Saturated	3.Seasonally flooded
Water Depth:         1.0-5 cm         2.5-20 cm         3.20-50 cm	4.50-100 cm 5.>100 cm

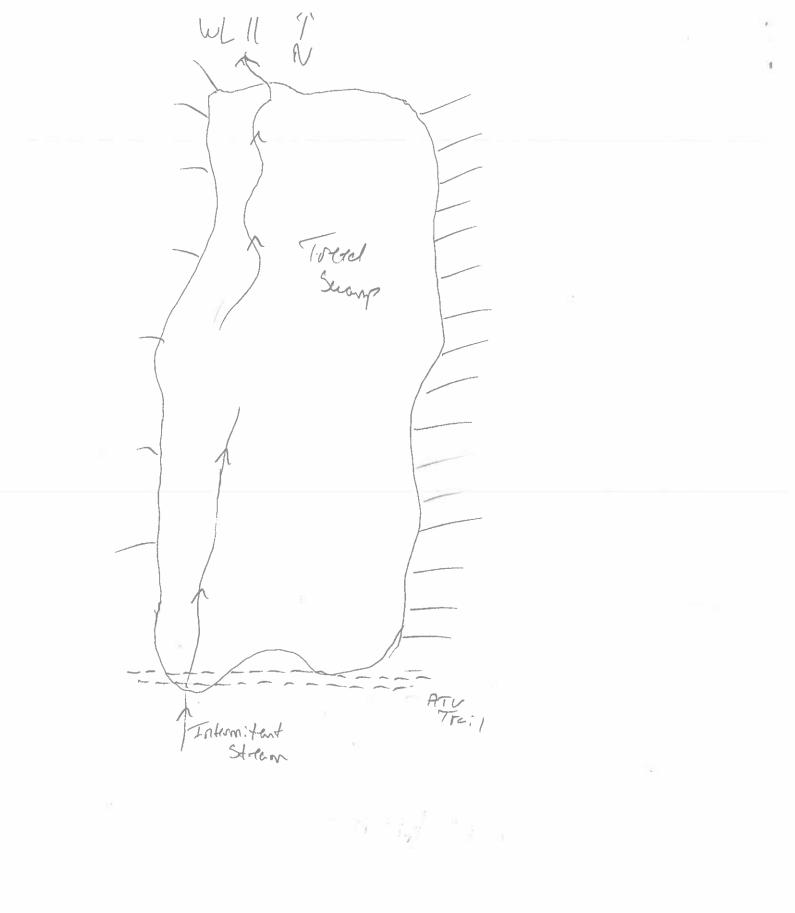
Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 3. Ducks Unlimited Impoundment NA 2.Man-made Impoundment \_\_\_\_\_ 4. None of the above \_\_\_\_\_ Percent Vegetation Cover: 1.> 95% 🗸 5.26-75% in patches 2.76-95% in peripheral band 5-25% in peripheral band 3.76-96% in patches 7. 5-25% in patches \_\_\_\_\_ 4.26-75% in peripheral band 8.< 5% Wetland Site: 1.Lacustrine 4.Isolated \_ 2.Riverine \_ V 5.Deltaic 3.Palustrine Vegetation Types (%): 1. Deciduous trees 5% Red Marke, Solous americana 2. Coniferous trees 90% Black Spruch, Baban Fis 3. Dead trees \$1.20% 4. Tall shrubs 30% Nemoplan thus 5. Low shrubs 5% Kalmin angust folg 6. Dead shrubs 10% 7. Herbs 5% Uarian then twifelium, patter Sava and Mugura 8. Mosses Splaynem 100% 9. Narrow-leaved emergents 20, 10% Cares tribung 10 Broad-leaved emergents 10.Broad-leaved emergents 11.Robust emergents -12.Free-floating plants ----13.Floating plants (rooted) ----14.Submerged plants 15. Other amanan for 15% Interspersion: 1.Minimal 2.Low 3.Medium \_\_\_\_ 4.High \_\_\_\_ Conductivity: N/A <u>pH</u>: N/A <u>Alkalinity</u>: N/A Hydrological Classification: 1.Surface water depression 3.Surface water slope 2.Ground water depression Ground water slope \_\_\_\_\_ Inlets/Outlets/water bodies: Infant out-flow Wildlife: (Observation/Signs/Reports) None; deertrade on ATV trail whoil crosse the WE Deer trucks

Page 2

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest _ <u>/o o %</u> 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other
1 Agriculture         2.Forestry <u>A 055</u> ble, but not harvested         3 Recreation <u>Aband and Att trails</u> 4.Industrial	od (fo mised woods in patiles) 7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Disturbance: 1.Low 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4. DOT road within 5. Vehicle tracks 6. Other <u>abandered</u> ATV trail; crosses welland
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident
Potential Threats: development	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
Description:	
Notes:	

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WETLAND DEI	LINEATION	DATA FORM -	- NOVA SCOTIA
Project/Site: <u><u>R/uc/CPc, 1+</u></u>	Municipality/Co	unty: <u>Gerys</u>	Sampling Date: Aug. 22/12
Applicant/Owner:			Sampling Point: W_ //- UPI
Investigator(s): S. Suchry	Affili		Fe
Landform (hillslope, terrace, etc.): Hillslope	30	Local relief	(concave, convex, none):
			676 Datum: 14183
Soil Map Unit Name/Type:		We	itiand Type: (2010mel - Fore 4st
Are climatic / hydrologic conditions on the site typical for this	s time of year?	Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s			/Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s		·	
SommART OF FINDINGS – Attach site map a	mowing sai		cauons, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	° <u>~</u> /	Is the Sampled within a Wetlan	
Wetland Hydrology Present? Yes N		If yes, optional V	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a sep	parate report.)		
0			
VEGETATION – Use scientific names of plants.			
		minant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>///n/</u> ) 1. Abies Sc. Sc. pre.		<u>ecies?</u> <u>Status</u> CAC	Number of Dominant Species
	10	Filtur	That Are OBL, FACW, or FAC:(A)
3			Total Number of Dominant Species Across All Strata: (B)
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<u>U()</u> = TO	otal Cover	
Sapling/Shrub Stratum (Plot size: 7/7))	~		Prevalence Index worksheet:
1. Alies balance	<u> </u>	$\leq \frac{rAC}{ENC}$	Total % Cover of: Multiply by: OBL species x 1 =
2. Sartas andre andre andre		EAC	FACW species $10 \times 2 = 202$
4			FAC species $S \neq x_3 = 171$
5			FACU species x 4 =
1	<u>(()</u> = To	otal Cover	UPL species x 5 =
Herb Stratum (Plot size: 100)	10		Column Totals: 67 (A) (Ct. 1 (B)
1. Arcalic spalicaulis	· · · ·	<u> </u>	Prevalence Index = B/A =
2. To instalig barealis 3. Me i non Henrich conselensis	$\frac{s}{2}$	Z FAL	Hydrophytic Vegetation Indicators:
4.			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	- A		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u></u> =To	otal Cover	be present, unless disturbed or problematic.
1 /			Hydrophytic
2			Vegetation
		otal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)		<u></u>

	SOIL				
	Profile Desci	ription:	(Describe	to	the
	Depth (inches)		Matrix		
ļ	(inches)	Colo	r (moint)		0/

Sampling Point: 41-11-1

(inches) Color (moist	) %	Color (maint)	Features	1 2	Tautura	Bernerke	
12					Texture	Remarks	-
0-10					Gonice.	Dult	
				<u> </u>	1.1		
<sup>1</sup> Turney C=Concentration D=				d Rand Crain	21	tion, DieDoro Lining MeMote	
<sup>1</sup> Type: C=Concentration, D= Hydric Soil Indicators:	Depieuon, RM=Re	duced Matrix, CS	~Covered or Coate			tion: PL=Pore Lining, M=Matr or Problematic Hydric Soils <sup>3</sup>	
•		Condy Bodey	(85)			÷	•
Histosol (A1) Histic Epipedon (A2)	-	Sandy Redox		x:		rairie Redox (A16)	
Black Histic (A3)	-		ow Surface (S8)			ucky Peat or Peat (S3)	
Hydrogen Sulfide (A4)	-	Thin Dark Sur				nganese Masses (F12)	
Stratified Layers (A5)	-	Loamy Gleyed Depleted Mate				nt Floodplain Soils (F19)	
<ul> <li>Depleted Below Dark Su</li> </ul>	rface (A11)	Redox Dark S				rent Material (TF2) Explain in Remarks)	
Thick Dark Surface (A12			k Surface (F0)		Other (c	copiain in Remarks)	
Sandy Mucky Mineral (S		Redox Depres	• •				
Sandy Gleyed Matrix (S4			3310113 (1 0)				
	7						
Type: Kolme							
Depth (inches):	22	_			Hydric Soil F	Present? Yes <u>No</u>	<u>_</u>
• • • • • • • • • • • • • • • • • • • •	200				Hydric Soil I	Present? Yes No	L
Depth (inches):	200				Hydric Soil I	Present? Yes <u>No</u>	<u> </u>
Depth (inches):	<u>۳۸</u>				Hydric Soil f	Present? Yes <u>No</u> No	<u> </u>
Depth (inches):	<u></u>				Hydric Soil f	Present? Yes No	
Depth (inches):	<u></u>				Hydric Soil F	Present? Yes No	
Depth (inches):/UC			5			Present? Yes No	
Depth (inches): <u>///C</u> Remarks: 	DIS:	; check all that ap	piv)		Secondar		
Depth (inches): Remarks: 	DIS:		ply) ned Leaves (B9)		<u>Secondar</u> Surfa	y Indicators (minimum of two r	
Depth (inches):	DIS:	Water-Stain	ned Leaves (B9)		<u>Secondar</u> Surfa Drair	y Indicators (minimum of two r ice Soil Cracks (B6) iage Patterns (B10)	
Depth (inches):	DIS:	Water-Stain Aquatic Fa	ned Leaves (B9) una (B13)		<u>Secondar</u> Surfa Drair Moss	y Indicators (minimum of two r ice Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16)	
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicate Primary Indicators (minimum 	DIS:	Water-Stain Aquatic Far Marl Depos	ned Leaves (B9) una (B13) sits (B15)		Secondar Surfa Drair Moss Dry-5	y Indicators (minimum of two r ace Soil Cracks (B6) lage Patterns (B10) s Trim Lines (B16) Season Water Table (C2)	œqu
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Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicate Primary Indicators (minimum 	ors: of one is required rial Imagery (B7)	Water-Stain Aquatic Fa Marl Depos Hydrogen S Oxidized R Presence o Recent Iror Thin Muck Other (Exp	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Liv of Reduced Iron (C4 n Reduction in Tille Surface (C7)	ing Roots (C3	Secondar Surfa Drair Moss Dry-S Satur 3) Sturf Geor Shall Micro	y Indicators (minimum of two r ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imager ted or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3) otopographic Relief (D4)	œqu
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 	ors: of one is required rial Imagery (B7) cave Surface (B8)	Water-Stain Aquatic Fai Marl Depos Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) thizospheres on Liv of Reduced Iron (C4 n Reduction in Tille Surface (C7) Ilain in Remarks)	ing Roots (C3	Secondar Surfa Drair Moss Dry-S Satur 3) Sturf Geor Shall Micro	y Indicators (minimum of two r ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imager ted or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3) otopographic Relief (D4)	
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicate Primary Indicators (minimum 	ors: of one is required rial Imagery (B7) cave Surface (B8) Yes No	Water-Stain Aquatic Fai Aquatic Fai Aquatic Fai And Depos And Depos And Presence of And Presen	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Liv of Reduced Iron (C4 n Reduction in Tille Surface (C7) lain in Remarks)	ing Roots (C3 4) d Soils (C6)	Secondar Surfa Drair Moss Dry-S Satur 3) Sturf Geor Shall Micro	y Indicators (minimum of two r ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imager ted or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3) otopographic Relief (D4)	
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicate Primary Indicators (minimum 	ors: of one is required rial Imagery (B7) cave Surface (B8) Yes No	Water-Stain Aquatic Fai Aquatic Fai Aquatic Fai And Depos And Depos And Presence of And Presen	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) thizospheres on Liv of Reduced Iron (C4 n Reduction in Tille Surface (C7) Ilain in Remarks)	ing Roots (C3 4) d Soils (C6)	Secondar Surfa Drair Moss Dry-S Satur 3) Sturf Geor Shall Micro	y Indicators (minimum of two r ace Soil Cracks (B6) hage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) ration Visible on Aerial Imager ted or Stressed Plants (D1) norphic Position (D2) low Aquitard (D3) otopographic Relief (D4)	œqu

(includes capillary fringe) [ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND D	ELINEATION	DATA FORM -	NOVA SCOTIA
roject/site: Kack PC:nt	Municipality/Co	unty: Girgg	harring La Sampling Date: Arg. H.
pplicant/Owner: <u>Vultur</u>		/	Sampling Point: Lub /1- Up/
vestigator(s):	Affili	ation: AMF	C
			(concave, convex, none): Aumoniello
			277 Datum: 1/1/A/) 83
bil Map Unit Name/Type: Rock Elinard			Hand Type: THILL Sector MP
e climatic / hydrologic conditions on the site typical for t			
e Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology	_ naturally problem	natic? (If ne	eded, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map	showing san	npling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	
	No	within a Wetlan	d? Yes No
Vetland Hydrology Present? Yes	No	If yes, optional V	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a s	eparate report.)		· · · · · · · · · · · · · · · · · · ·
EGETATION – Use scientific names of plant	s.		
ree.Stratum (Plot size; 10 m)		minant Indicator	Dominance Test worksheet:
this bulgande	<u> % cover</u> <u>sp</u>	ecies? <u>Status</u>	Number of Dominant Species (A)
P. Ale nurine		EACU/	That Are OBL, FACW, or FAC: (A)
·			Total Number of Dominant
· · · · · · · · · · · · · · · · · · ·			Species Across All Strata: (B)
			Percent of Dominant Species
		otal Cover	That Are OBL, FACW, or FAC: _/ (A/B)
apling/Shrub_Stratum (Plot size:	···		Prevalence Index worksheet:
. Behile Aupori ferra		FACV	Total % Cover of: Multiply by:
At 18 18 1 Scilles Capalla		< FAL	OBL species $22 \times 1 = 22$
Cignomon Fern		<u> </u>	FACW species $x_2 = 10$
Manopon HAS MUCOMMENTER		<u>F-Ac</u>	FAC species $44$ x3 = $147$
•			FACU species x 4 =
lerb Stratum (Plot size: /かへ)	<u>77</u> =TC	otal Cover	UPL species $x 5 = $
CUNEX trisperma	20	OBL-	Column Totals: (A) (B)
maintentencen trifelia		- OSL	Prevalence Index = B/A = <u>2.4</u>
CUCAUS CONCOLOMBIS			Hydrophytic Vegetation Indicators:
·			Rapid Test for Hydrophytic Vegetation
·			Dominance Test is >50%
• • • • • • • • • • • • • • • • • • • •			Prevalence Index is ≤3.0 <sup>1</sup>
·			Morphological Adaptations <sup>1</sup> (Provide supporting
·			data in Remarks or on a separate sheet)
·			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0			Indicators of builds and and an atom to build a to a
	111	otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Voody Vine Stratum (Plot size:)			
			Hydrophytic Vegetation
) 	 = To	tal Cover	Present? Yes <u>No</u>

Adapted from U.S. Army	Corps of Engineers form for	r Northeast-North Central	Supplement for use in Nova	Scotia (2011)

S	Ο	1	L

0

Sampling Point:	Uhll-app

Depth, Matrix	Redox Features	
Depth Matrix (inches Color (moist) %	Color (moist)%Type1	Loc <sup>2</sup> Texture Remarks
1		
		<u></u>
	RM=Reduced Matrix, CS=Covered or Coated	
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	
Sandy Gleyed Matrix (S4)		
<sup>3</sup> Indicators of hydrophytic vegetation and	wetland hydrology must be present, unless	disturbed or problematic.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):	24	Hydric Soil Present? Yes <u>i</u> No
Remarks:		
		Secondary Indicators (minimum of two require
Wetland Hydrology Indicators:	quired: check all that apoly)	Secondary Indicators (minimum of two require Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re		Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> </ul>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livir	Surface Soil Cracks (B6)     Drainage Patterns (B10)     Moss Trim Lines (B16)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ng Roots (C3) Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livir     Presence of Reduced Iron (C4)	geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Livir         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Livir         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled         Thin Muck Surface (C7)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livir     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)     Other (Explain in Remarks)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Livir     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)     Other (Explain in Remarks)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) r (B7) Other (Explain in Remarks) ce (B8)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches):	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is regiment of the second	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches):	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is regiment Pable (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches):	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u>	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches):	
Surface Water (A1)     High Water Table (A2)     Saturation (A3)     Water Marks (B1)     Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Imagery     Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Cincludes capillary fringe) Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u>	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is regiment Pable (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u>	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturat	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u>	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is registed in the second of the second	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) (No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u> No Depth (inches): <u>Jacua</u>	

## Freshwater Wetland Data Sheet 6/2

Date: <u>SIA</u> Z/10 Investigator(s): <u>S. Rux Fry</u> Weather: <u>Sun Ay</u> Topographic Sheet: Aerial Photo Number:	Wetland Atlas Number : GIS Map / Stand No. : <u>C45356//29</u> / C45306// // Wetland Form <sup>1</sup> :: <u>Open Bug (Dom</u> ) Wetland size: <u>ha</u> Associated Watercourse:
Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO)X 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swamp 8.Bog
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM         10.Floating leaved DM         11.Rooted floating leaved DM	19.Floating leaved SM         20.Rooted floating leaved SM         21.Non-vegetated SM         22.Emergent seasonally flooded flats         23.Shrubby SFF         24.Grazed meadow         25.Ungrazed M         26.Sedge M         27.Sapling shrub swamp         28.Bushy SS         29.Compact SS         30.Low sparse SS         31.Deciduous wooded swamp         32.Evergreen WS         33.Wooded bog         34.Shrubby B         35.Open B
<u>Water Regime Indicator:</u> 1.Permanently flooded 2.Saturated <u>X</u>	3.Seasonally flooded
<u>Water Depth:</u> 1.0-5 cm <u>∕</u> 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

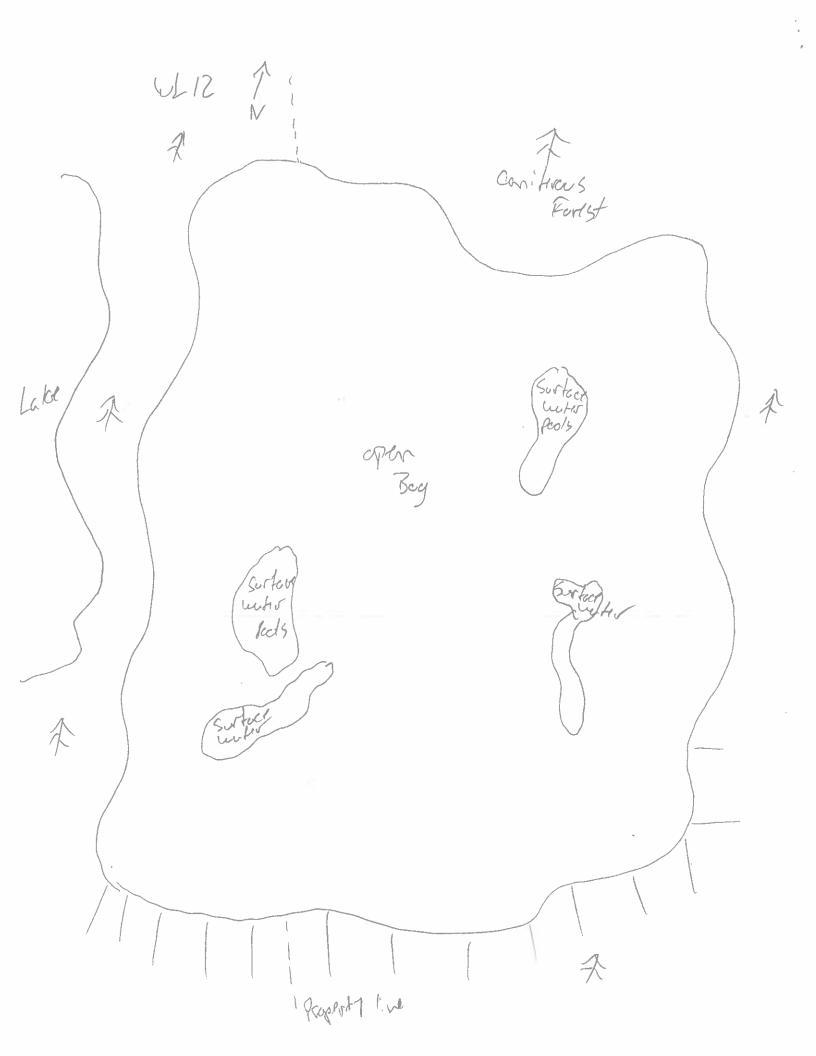
Note: 1, Canadian Wetland Classification System (2nd Edition)

4

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: 1.> 95% ///// 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1. Deciduous trees - 2. Coniferous trees - 3. Dead trees Z % 4. Tall shrubs 5 % - Vibis from Rudum Mea 5. Low shrubs 5 % - Vibis from Rudum Mea 6. Dead shrubs - 7. Herbs - 6590 - Scipus Craptions Buy Gam 7. Herbs - 6590 - Scipus Craptions 8. Mosses 1590 - Scipus Craptions 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) - 14. Submerged plants - 15. Other -	no 9. Juniper
Interspersion: 1.Minimal X 2.Low 3.Mediu	um 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression	3. Surface water slope $\underline{\times}$ 4. Ground water slope $$
Inlets/Outlets/water bodies:	, envir nag
Wildlife: (Observation/Signs/Reports)	
Detr tracks	

Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest $\frac{9}{90}$	
3.Dykelands	6.River 7. Other <u>11.9</u> , La Ke
4.Mudflats	
Description: mixed woods Com, firscus	2
Surrounding Land Use %:	
1 Agriculture 2.Forestry	7.Residential
3 Recreation	8.Waste Disposal 9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description: Nort	
<u>Disturbance:</u> 1.Low <u>✓</u> 2.Moderate <u></u> 3.High	
Description:	
<u>Roads and/or tracks:</u> 1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other
Description:	
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident $\times$
3.Aesthetics	
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species X	6. None evident
Description: Potendia /	
Notes:	
<u>·····</u> ·	

20 10 10



WETLAND			
Project/Site: Black Print	Municipality/Co	unty: Guya	Sampling Date: Acc 21
Applicant/Owner: Vulcing			Sampling Point: UI.ID-WP/
nvestigator(s): S. S. St. H.	Affil	ation: AN	EC
andform (hillslope, terrace, etc.):	· · · · ·	Local relief	(concave, convex, none):
Slope (%): Lat: L44 54	Lon		349 Datum: ALADES
Soil Map Unit Name/Type:Rcck/100 M			etland Type: KcG
Are climatic / hydrologic conditions on the site typical for	this time of year?		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	-		"Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
SUMMART OF FINDINGS – Attach site ma	p snowing sar		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	
Hydric Soil Present? Yes	No	within a Wetla	nd? Yes No
Wetland Hydrology Present? Yes	No	If yes, optional	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a	separate report.)		
/EGETATION - Liss scientific nomes of size			
EGETATION – Use scientific names of plar		minant Indiant-	
<u>Tree Stratum</u> (Plot size: <u>(Cいへ</u> )	Absolute Do <u>% Cover</u> Sp	minant Indicator	Dominance Test worksheet: Number of Dominant Species -1
1. Losik lasceine	_ 15 _	/ FAC	That Are OBL, FACW, or FAC: (A)
2. Millo Musicae		- Zitia	Total Number of Dominant
3. Acctaban		EAC_	Species Across All Strata: (B)
4			Percent of Dominant Species
5·			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5 A	= T	otal Cover	Prevalence Index worksheet:
1. Rhochestia	10 .	/ FAC	Total % Cover of: Multiply by:
2. Obsalescle Cinamenda	$\overline{\langle}$	FAC	OBL species $()$ $x_1 = ()$
3. Allipprisconthis Millionsoft	20	FAC	FACW species $7 \times 2 = 14$
4. 1011 mic angustitedia		EAC.	FAC species $67 \times 3 = 201$
5. Orighsecric beterthe	<u> </u>	<u> </u>	FACU species x 4 =
Herb Stratum (Plot size: / t^ )	<u>бо</u> =т	otal Cover	UPL species x 5 =
Herb Stratum (Plot size: (M)) 1. Lellon Chelm(melilion)	5		Column Totals: $\delta(\rho)$ (A) $\Delta - T$ (B)
2. Survesing purpure			Prevalence Index = $B/A = 2.6$
3. Curef trispermin		UBL-	Hydrophytic Vegetation Indicators:
4. De manterne tritelia			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%
S			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u> </u>	otal Cover	be present, unless disturbed or problematic.
1)			
2			Hydrophytic Vegetation
		otal Cover	Present? Yes No

Sampling Point:	W-12-app

Depth Matrix		Redox Features						
(inches) Color (moist)	% Color (mo	ist) %	Type <sup>1</sup> Loo	c <sup>2</sup> Text	ure _		Remarks	
9-4ct				Qrgn	nic.	Pre	t -	
				/				
					····· •			
	52					12		
Type: C=Concentration, D=Depl	etion, RM=Reduced Ma	trix, CS≃Covered o	r Coated Sar	nd Grains.	<sup>2</sup> Loca	tion: PL=Pc	ore Lining, M=M	atrix.
Hydric Soil Indicators:				Indi	cators f	or Problema	atic Hydric Soi	is³:
Histosol (A1)	Sandy	/ Redox (S5)			Coast P	rairie Redox	(A16)	
Histic Epipedon (A2)		alue Below Surface	(S8)			icky Peat or		
Black Histic (A3)		Dark Surface (S9)	. ,			nganese Ma		
Hydrogen Sulfide (A4)		y Gleyed Matrix (F2	)			-	Soils (F19)	
Stratified Layers (A5)		ted Matrix (F3)				ent Material		
Depleted Below Dark Surface		A Dark Surface (F6)				xplain in Re		
Thick Dark Surface (A12)	Deple	ted Dark Surface (F	7)					
Sandy Mucky Mineral (S1)	Redox	Depressions (F8)						
Sandy Gleyed Matrix (S4)			12.1					
Indicators of hydrophytic vegetat	ion and wetland hydrolo	gy must be present	, unless distu	urbed or prob	lematic.			
Restrictive Layer (if observed):								
				1				
Туре:								
Type: Depth (inches):				Hydr	ic Soil F	resent?	Yes 🧹 I	۰۰
			Q.	Hydr	ic Soil P	resent?	Yes I	4o
Depth (inches):			v	Hydr	ic Soil F	resent?	Yes I	4o
Depth (inches): Remarks: YDROLOGY			~			-		
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:		that apply)	~		econdar	v Indicators	(minimum of tw	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o	ne is required; check all			<u>S</u>	econdar _ Surfa	v Indicators ce Soil Crac	(minimum of tw ks (B6)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1)	ne is required; check all Wa	ter-Stained Leaves	(B9)	<u>S</u>	econdar _ Surfa _ Drain	y Indicators ce Soil Crac age Pattern:	(minimum of tw ks (B6) s (B10)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2)	ne is required; check all Wa Aq	ter-Stained Leaves uatic Fauna (B13)	(В9)	<u>S</u>	econdar _ Surfa _ Drain _ Moss	y Indicators ce Soil Crac age Pattern: Trim Lines	<u>(minimum of tw</u> ks (B6) s (B10) (B16)	
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3)	ne is required; check all Wa Aq Ma	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15)		<u>S</u>	econdar Surfa Drain Moss Dry-S	y Indicators ce Soil Crac age Pattern Trim Lines jeason Wate	(minimum of tw ks (B6) s (B10) (B16) er Table (C2)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne is required; check all Wa Aq Ma Hy	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo	r (C1)	<u>S</u>	econdar _ Surfa _ Drain _ Moss _ Dry-S _ Satur	v Indicators ce Soil Crac age Pattern Trim Lines season Wate ation Visible	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Aq Ma Hyı Ox	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere:	r (C1) s on Living R	<u>S</u>	econdar Surfa Drain Moss Dry-S Satur Sturt	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag ed Plants (D1)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne is required; check all Wa Aq Ma Hy Ox Pre	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere esence of Reduced	r (C1) s on Living R Iron (C4)	S	econdar Surfa Drain Moss Dry-S Satur Stunt Geon	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ne is required; check all Wa Aq Ma Hy Ox Pre	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere:	r (C1) s on Living R Iron (C4)	S	econdar Surfa Drain Moss Dry-S Satur Stunt Geon	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ne is required; check all Wa Aq Ma Hyı Ox Pre Re	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere esence of Reduced	r (C1) s on Living R Iron (C4) i in Tilled Soil	S	econdar Surfa Drain Moss Dry-S Stunt Stunt Geon Shall	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag ied Plants (D1) tion (D2) (D3)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ne is required; check all Wa Aq Ma Hy Ox Pre Re Thi	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction	r (C1) s on Living R Iron (C4) in Tilled Soil 7)	S 	econdar Surfa Drain Moss Dry-S Sturt Staturt Geon Shall Micro	y Indicators ce Soil Crac age Pattern: Trim Lines eason Wate ation Visible ed or Stress norphic Posi ow Aquitard	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ne is required; check all Wa Aq Ma Hyı Ox Pre Re Thi magery (B7) Ott	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: sence of Reduced cent Iron Reduction n Muck Surface (C2	r (C1) s on Living R Iron (C4) in Tilled Soil 7)	S 	econdar Surfa Drain Moss Dry-S Sturt Staturt Geon Shall Micro	y Indicators ce Soil Crac age Pattern Trim Lines eason Wate ation Visible ed or Stress norphic Posi pow Aquitard topographic	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Aq Ma Hyı Ox Pre Re Thi magery (B7) Ott	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: sence of Reduced cent Iron Reduction n Muck Surface (C2	r (C1) s on Living R Iron (C4) in Tilled Soil 7)	S 	econdar Surfa Drain Moss Dry-S Sturt Staturt Geon Shall Micro	y Indicators ce Soil Crac age Pattern Trim Lines eason Wate ation Visible ed or Stress norphic Posi pow Aquitard topographic	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Aqu Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: sence of Reduced cent Iron Reduction n Muck Surface (C2	r (C1) s on Living R Iron (C4) in Tilled Soil 7)	S 	econdar Surfa Drain Moss Dry-S Sturt Staturt Geon Shall Micro	y Indicators ce Soil Crac age Pattern Trim Lines eason Wate ation Visible ed or Stress norphic Posi pow Aquitard topographic	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial I Sparsely Vegetated Concave Field Observations: Surface Water Present?	ne is required; check all — Wa — Aq — Ma — Hy — Ox — Pre — Re — Thi magery (B7) — Ott Surface (B8)	ter-Stained Leaves uatic Fauna (B13) drogen Sulfide Odo idized Rhizospheres esence of Reduced cent Iron Reduction n Muck Surface (C) ner (Explain in Rem	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)	S 	econdar Surfa Drain Moss Dry-S Sturt Staturt Geon Shall Micro	y Indicators ce Soil Crac age Pattern Trim Lines eason Wate ation Visible ed or Stress norphic Posi pow Aquitard topographic	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Aq Ma Ma Ma Pre Re Re Re Thi magery (B7) Ott s Surface (B8) es No Do	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction n Muck Surface (C ner (Explain in Rem	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Sturt Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) Relief (D4) t (D5)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Aq Ma Ma Ma Pre Re Re Re Thi magery (B7) Ott s Surface (B8) es No Do	ter-Stained Leaves uatic Fauna (B13) drogen Sulfide Odo idized Rhizospheres esence of Reduced cent Iron Reduction n Muck Surface (C) ner (Explain in Rem	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Sturt Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) : Relief (D4)	o require
Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of o 	ne is required; check all Wa Ma Ma Ma Ma Ma Ma Ma No Cx Re Thi magery (B7) Oth s Surface (B8) es No Do es No Do	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction n Muck Surface (C ner (Explain in Rem epth (inches):	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Geon Shall Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) Relief (D4) t (D5)	o require
Depth (inches): Remarks: <b>YDROLOGY</b> <b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of o 	ne is required; check all Wa Ma Ma Ma Ma Ma Ma Ma No Cx Re Thi magery (B7) Oth s Surface (B8) es No Do es No Do	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction n Muck Surface (C ner (Explain in Rem epth (inches):	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Geon Shall Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) Relief (D4) t (D5)	o require
Depth (inches): Remarks: <b>YDROLOGY</b> <b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of o 	ne is required; check all Wa Ma Ma Ma Ma Ma Ma Ma No Cx Re Thi magery (B7) Oth s Surface (B8) es No Do es No Do	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction n Muck Surface (C ner (Explain in Rem epth (inches):	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Geon Shall Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) Relief (D4) t (D5)	o require
Depth (inches): Remarks: <b>YDROLOGY</b> <b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of o 	ne is required; check all Wa Ma Ma Ma Ma Ma Ma Ma No Cx Re Thi magery (B7) Oth s Surface (B8) es No Do es No Do	ter-Stained Leaves uatic Fauna (B13) rl Deposits (B15) drogen Sulfide Odo idized Rhizosphere: esence of Reduced cent Iron Reduction n Muck Surface (C ner (Explain in Rem epth (inches):	r (C1) s on Living R Iron (C4) in Tilled Soil 7) arks)		econdar Surfa Drain Moss Dry-S Sturt Geon Shall Geon Shall Micro FAC-	y Indicators ce Soil Crac age Pattern: Trim Lines season Wate ation Visible ed or Stress norphic Posi pw Aquitard topographic Neutral Test	(minimum of tw ks (B6) s (B10) (B16) er Table (C2) e on Aerial Imag red Plants (D1) tion (D2) (D3) Relief (D4) t (D5)	o require

WEILAND	DELINEATION I	DATA FORM -	- NOVA SCOTIA
Project/Site: Slick Paint	Municipality/Col	unty: Gurys	Sampling Date: Acg. 24
Applicant/Owner:			Sampling Point: ULIL-UPI
Investigator(s): 5. Storten	Affilia	ation:	
Landform (hillslope, terrace, etc.): Hill Sleepe	12	Local relief	(concave, convex, none): <u>Hummerlen</u>
Slope (%): 1000 Lat: 64145710			Datum: NIAN 83
Soil Map Unit Name/Type: Recklund		We	etland Type: Uplunice - Ress an
Are climatic / hydrologic conditions on the site typical for	this time of vear?		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	-		"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
	_ •	•	
SUMMARY OF FINDINGS – Attach site ma	p showing sam	npling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	
Hydric Soil Present? Yes		within a Wetlar	nd? Yes No V
Wetland Hydrology Present? Yes		If yes, optional \	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a	separate report.)		
VEGETATION - Use scientific names of plan	nts		
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 1000)	<u>Mosolute</u> Dol <u>% Cover</u> Spe		Number of Dominant Species
1. Levit Legerine		/ FAC	That Are OBL, FACW, or FAC:
2. Acres phann		/ FAC	
3. Mille merima		/ EACIN	Total Number of Dominant Species Across All Strata:(B)
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	= To	otal Cover	
Sapling/Shrub Stratum (Plot size: 5 77	)		Prevalence Index worksheet:
1. Vib. 1 por audum	<u> </u>	<u> </u>	Total % Cover of: Multiply by:
2. Herer Villering	— మై— —	<u>catc</u>	OBL species x 1 =
3 significia buliesta	<u> </u>	<u>FAC</u>	FACW species $10$ x2 = $20$
4. Id salow cn		$\underline{}$	FAC species $19 F_{10} = x_3 = 554$
5. folania crogest, tolia	<u> </u>	<u>r#C</u>	FACU species x 4 =
Herb Stratum (Plot size: (10)	<u>(())</u> = To	otal Cover	UPL species $x = 1$
1. COSQUE CLARACIE	25	Tac	Column Totals: 208 (A) 614 (B)
2. Kalpain conclust: Leilie	10	FA-C	Prevalence Index = B/A = $3 \cdot 0$
3. Foralham nicitar	30	C FAC	Hydrophytic Vegetation Indicators:
4. Luckinium encestitalium		- Ete	Rapid Test for Hydrophytic Vegetation
5. Trinntel's sorralis		FAC	Dominance Test is >50%
6. Allinon Henrich Convelpasis	5	FAC	Prevalence Index is ≤3.0 <sup>1</sup>
7. Corrighter in Prose unhand		FAC	Morphological Adaptations <sup>1</sup> (Provide supporting
8. Ledum your lundian		FACh	data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	<u>91</u> = To	otal Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	12		· · · · · · · · · · · · · · · · · · ·
1			Hydrophytic
2			Vegetation Present? Yes No
	= To	otal Cover	
Remarks: (Include photo numbers here or on a separa			

2.4			
Sampling Point:	412	52	=upl

Depth	Matrix		Redo	ox Features	3		_	
	(moist)	<u>%</u> _C	Color (moist)	%	Type'	Loc <sup>2</sup>		Remarks
0-11						.*)	Corgonil.	Dett
<u> </u>							· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Type: C=Concentration Hydric Soil Indicators		on, RM≖Reo	luced Matrix, C	S=Covered	1 or Coate	d Sand G		ation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
•			Condu Dode					-
Histosol (A1) Histic Epipedon (A	2)	-	Sandy Redo Delvariation R		aa (CO)			Prairie Redox (A16)
Black Histic (A3)	2)	-	Polyvalue B This Dark S					Aucky Peat or Peat (S3)
Hydrogen Sulfide	(44)		_ Thin Dark S _ Loamy Gley					anganese Masses (F12) ont Floodplain Soils (F19)
Stratified Layers (/			_ Depleted Ma		ΓΖ)			arent Material (TF2)
Depleted Below D		A11)	Redox Dark		6)			(Explain in Remarks)
Depleted Below D Thick Dark Surfac	•		_ Depleted Date	'	•			Leven in container
Sandy Mucky Mine	. ,	_	_ Redox Depr					
Sandy Gleyed Ma		-			~)	1.		
	(- )							
Type: Depth (inches): Remarks:		2	-				Hydric Soil	Present? Yes No
Depth (inches):		3					Hydric Soil	Present? Yes No
Depth (inches): Remarks:		2		73			Hydric Soil	Present? Yes No
Depth (inches): Remarks:	<u>11 cm</u>	3		74				
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In	dicators:		check all that a	pply)			Seconda	Present? Yes <u>No</u>
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In	I C DA			pply) ained Leave	es (B9)		Seconda	ary Indicators (minimum of two require
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min	Idicators:			ained Leav	• •		<u>Seconda</u> Surl Dra	ary Indicators (minimum of two require face Soil Cracks (B6)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (At	Idicators:		Water-Sta Aquatic F	ained Leav	)		Seconda Suri Dra Mos	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (An High Water Table	Idicators:		Water-Sta Aquatic F	ained Leav auna (B13 osits (B15)	)		Seconda Suri Dra Mos Dry	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (An High Water Table Saturation (A3)	Idicators: himum of one ) (A2)		Water-Sta Aquatic F Marl Dep Hydroger	ained Leave auna (B13 osits (B15) n Sulfide Or	) dor (C1)	ing Roots	Seconda Suri Dra Mos Dry- Sate	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	// ( m idicators: himum of one ) (A2) \$ (B2)		Water-Sta Aquatic F Marl Dep Hydroger Oxidized	ained Leave auna (B13 osits (B15) n Sulfide Or	) dor (C1) res on Livi	-	<u>Seconda</u> Surl Dra Mos Dry Satu s (C3) Stur	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	// ( n idicators: himum of one ) (A2) s (B2)		Water-Sta Aquatic F Marl Dep Hydroger Oxidized Presence	ained Leave auna (B13 osits (B15) o Sulfide Oo Rhizosphe	) dor (C1) res on Livi ed Iron (C4	l)	Seconda Surf Dra Mos Dry Satu 5 (C3) Stur Geo	ary Indicators (minimum of two require face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
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W/L \*13 Freshwater Wetland Data Sheet  $\omega_{L}/\zeta$ 

Date: <u>Unr</u> 3/<u>//</u>3 Investigator(s): <u>5. B. / H-7</u> Weather: <u>Sc. N/7</u> Topographic Sheet: <u>\_\_\_\_</u> Aerial Photo Number: \_\_\_\_\_

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_\_ 2.Bog(BO)

Wetland Class:

1.Open water \_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats

Wetland Subclass:

1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_\_ 6.Vegetated deep marsh 7.Non-vegetated DM \_\_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM \_\_\_\_\_ 15.Dead woody shallow marsh 16.Robust SM \_\_\_ 17.Narrow leaved SM \_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_/\_\_\_

Water Depth:

1.0-5 cm <u>()</u> 2.5-20 cm <u>\_\_\_\_</u> 3.20-50 cm <u>\_\_\_</u>

Wetland Atlas Number : \_\_\_\_ GIS Map / Stand No. : Wetland Form<sup>1</sup>:: Bug / Lutana Wetland size: íhá 🛛 Associated Watercourse: 4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) 5.Meadow \_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp 8.Bog X 19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats \_\_\_\_\_ 23.Shrubby SFF 24.Grazed meadow 25.Ungrazed M 26 Sedge M 27 Sapling shrub swamp 28.Bushy SS X 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_

34.Shrubby B \_<u>×</u>\_\_\_\_ 35.Open B \_<u>×</u>\_\_\_\_

3.Seasonally flooded \_\_\_\_\_

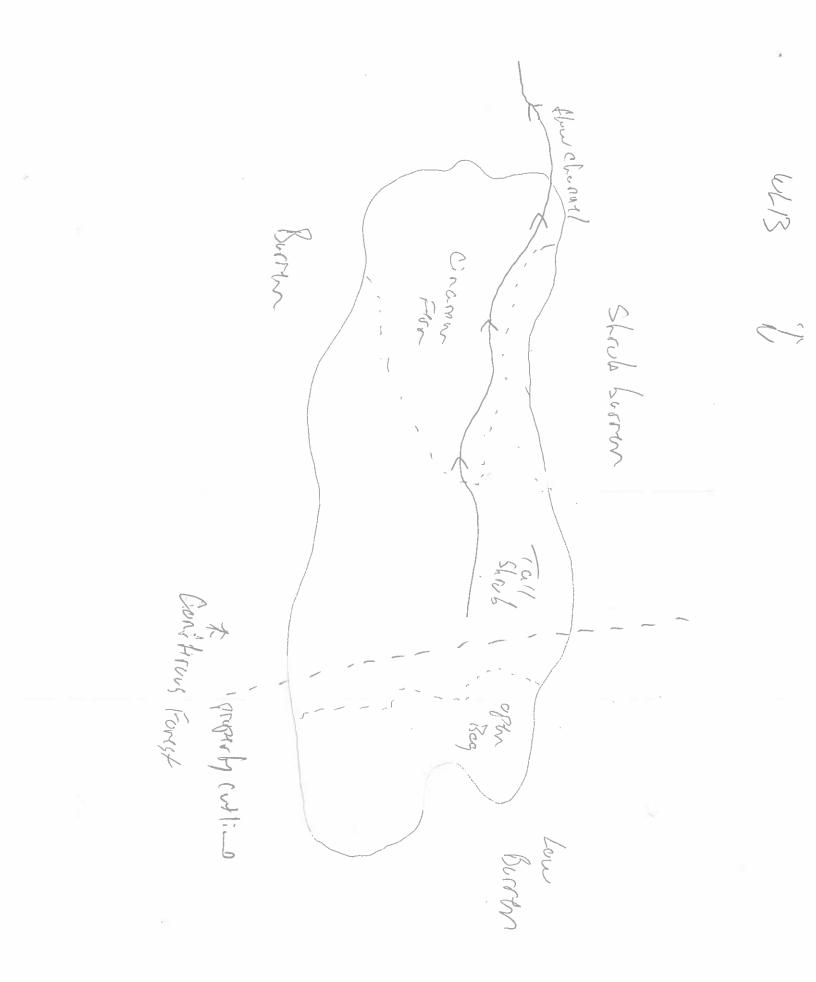
4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
<u>Percent Vegetation Cover:</u> 1.> 95% <u>X</u> 2.76-95% in peripheral band <u></u> 3.76-96% in patches <u>4</u> 4.26-75% in peripheral band <u></u>	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.PalustrineX	4.Isolated 5.Deltaic
Vegetation Types (%): 1.Deciduous trees 290 2.Coniferous trees 10% - Black Spuce, find 3.Dead trees 290 4.Tall shrubs - 9090 5.Low shrubs - 9090 6.Dead shrubs - 7.Herbs - 3590 - Cinomen form 8.Mosses - 10090 9.Narrow-leaved emergents - 10.Broad-leaved emergents - 11.Robust emergents - 12.Free-floating plants - 13.Floating plants (rooted) -	
14.Submerged plants 15. Other	
Interspersion: 1.Minimal 2.Low 3.Med	ium 4.H <b>i</b> gh
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>рН</u> : N/A
<u>Hydrological Classification:</u> 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Stream cutter to rille (1056,	1-1-1
<u>Wildlife:</u> (Observation/Signs/Reports)	3

.

<u>Adjacent Wildlife habitat (%):</u> 1.Salt marsh	5.Beach
2.Forest 1070	6 River
3.Dykelands	7. Other <u>9090</u> Barrow
4.Mudflats	
Description: mixed woods	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description: Nord	
Disturbance: 1.Low _K 2.Moderate 3.High	
Description: Nor	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other <u>×</u>
Description: Repair Repair and	live
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident <u>∠</u>
3.Aesthetics	
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species <u>X</u>	6. None evident
Description: Potton tic /	
Notes:	÷



WETLAND DELINEATION D	ATA FORM – NOVA SCOTIA
Project/Site: Black Rint Municipality/Cour	ity: Grysborn, L Sampling Date: Acg. 21/14
Applicant/Owner:	Sampling Point: ULB-UN
Investigator(s): <u>S Burkey</u> Affiliati	ion: AMEC
Landform (hillslope, terrace, etc.):	
Slope (%): Lat: Long: Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:	5025576 Datum: Mt1/83
Soil Map Unit Name/Type: Per hlmch	Wetland Type: Flan
Are climatic / hydrologic conditions on the site typical for this time of year? Year $\ensuremath{Ye}$	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	bling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes No         Hydric Soil Present?       Yes No	Is the Sampled Area within a Wetland? Yes <u>Ves</u> No <u>If yes</u> , optional Wetland Site ID: <u>Wetl</u> 3
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 1000) Absolute Dom % Cover Spec	inant Indicator Dominance Test worksheet:
1. Piela maina 2 4	That Are OBL, FACW, or FAC:
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
5	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	Prevalence Index worksheet:
1. Myrile Gate 15	Total % Cover of: Multiply by:
2. Augin Phartinic anglander pha 5_	CACIL_/ OBL species x1 =
3. Siglisceric hule At.	r Ar FACW species x 2 = 14
4. Cinques from 400 V	$\frac{FAC}{TAC} = FAC \text{ species } \frac{BC}{TAC} = \frac{1}{255}$
$5. \underbrace{Placetci, c_{c}}_{f} \underbrace{f_{inaction}}_{f} \underbrace{f_{inaction}}_{f$	FACU species x 4 = al Cover UPL species x 5 =
Herb. Stratum (Plot size: $/n$ )	al Cover UPL species $x5 =$ Column Totals: $103$ (A) $2202$ (B)
1. Evilphoten Virginicum d_	
2. ASher real world's	CISL Prevalence Index = B/A = 2-7
3. Curit trisperna 5	
4. DACin on Hennie toi falian 2 _	Rapid Test for Hydrophytic Vegetation
5	
6	
8	data in Remarks or on a separate sheet)
9	Problematic Hydrophytic Vegetation' (Evolution)
10	
Woody Vine Stratum         (Plot size:)	al Cover be present, unless disturbed or problematic.
1	
2	Present? Yes V No
= Tota	al Cover
Remarks: (Include photo numbers here or on a separate sheet.)	

SOI	L

#### Sampling Point: WLB-Cupl

Depth _	Matrix			edox Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>			0	Remarks	
0-35			<u>.</u>	=			ORM	Ċ	Pla	t	
-										•	
			•		·						
		· <u> </u>			<u> </u>						
		·			•		·				
			00								
<sup>1</sup> Type: C=Con	centration, D=Dep	letion, RM=f	Reduced Matrix	CS=Covere	d or Coate	d Sand G	irains. <sup>2</sup> Lo	catio	n: PL=P	ore Lining, M	=Matrix.
Hydric Soil In										natic Hydric S	
Histosol (A	(1)		Sandy Re	edox (S5)			Coas			•	
Histic Epip	,			e Below Surfa	ce (S8)	5				or Peat (S3)	
Black Histi			Thin Dark							asses (F12)	
Hydrogen				leyed Matrix (						in Soils (F19)	
	ayers (A5)			Matrix (F3)	. =/		Red		•	• •	
	Below Dark Surfac	e (A11)		ark Surface (F	F6)		Othe				
	Surface (A12)	( · · · · /		Dark Surface	•			(=^P	same ett. 13		
_	cky Mineral (S1)			epressions (F	· ·						
	yed Matrix (S4)			-proserene (1	~)						
	, ou mount (o i)										
<sup>3</sup> Indicators of h	ydrophytic vegetal	tion and wet	and hydrology	must he pres	ant unless	: disturber	d or problems	ic			
	ver (if observed):										
1	1 ' /										
Type:											/
Type: <u>/(</u> Depth (inch		n	_				Hydric So	il Pre	sent?	Yes 1	No
Depth (inch		n	<u> </u>				Hydric So	il Pre	sent?	Yes _/	No
,		<u>~</u>					Hydric So	il Pre	sent?	Yes //	No
Depth (inch		n					Hydric So	il Pre	sent?	Yes _/	No
Depth (inch		<u>~</u>	 				Hydric So	il Pre	sent?	Yes _/	No
Depth (inch		<u>n</u>					Hydric So	il Pre	sent?	Yes 1	No
Depth (inch Remarks:	es): <u>57(</u> 11	<u>^</u>					Hydric So	il Pre	sent?	Yes /	No
Depth (inch Remarks: HYDROLOG	es): <u>Бтси</u> Y										
Depth (inch Remarks: HYDROLOG Wetland Hydr	es): <u>57(</u> دم Y plogy Indicators:						Secon	lary ir	ndicators	s (minimum o	
Depth (inch Remarks: HYDROLOG Wetland Hydr	es): <u>Бтси</u> Y		ed; check all that	tt apply)			Secon	lary ir	ndicators		
Depth (inch Remarks: HYDROLOG Wetland Hydr	es): <u>57 ( به</u> Y ology Indicators: ارمته (minimum of c			tt apply) Stained Leav	/es (B9)		<u>Secon</u>	lary li	ndicators Soil Cra	s (minimum o	
Depth (inch Remarks: HYDROLOG Wetland Hydr Primary Indica	es): <u>57 ( به</u> Y ology Indicators: tors (minimum of c ater (A1)		C Water-	Stained Leav			<u>Secon</u> Su Dr	<u>lary li</u> Inface ainag-	ndicators Soil Cra	s <u>(minimum o</u> acks (B6) ns (B10)	
Depth (inch Remarks: HYDROLOG Wetland Hydr Primary Indical Surface W	es): <u>57(m</u> Y blogy Indicators: tors (minimum of c ater (A1) r Table (A2)		Water- Aquati	Stained Leav c Fauna (B13	3)		<u>Second</u> Su Dr Ma	<u>lary li</u> rface ainag	ndicators Soil Cra e Pattern im Lines	s ( <u>minimum o</u> acks (86) ns (810) s (816)	f two requi
Depth (inch Remarks: HYDROLOG Wetland Hydr Primary Indica Surface W High Wate Saturation	es): <u>57(m</u> Y ology Indicators: tors (minimum of c ater (A1) r Table (A2) (A3)		⁻ Water- Aquati Marl D	Stained Leav c Fauna (B13 leposits (B15)	3) )		<u>Second</u> Su Dr Dr Dr	<u>lary li</u> irface ainag oss Tr y-Sea	ndicators Soil Cra e Patteri im Lines Ison Wa	s (minimum o acks (86) ns (810) s (816) ter Table (C2	f two requi
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WETLAND DELINEATION	I DATA FORM -	NOVA SCOTIA
Project/Site: Black Pant Municipality/C	ounty Frankl	sampling Date: Ar 21/141
Applicant/Owner: UULL		Sampling Point: W13-44
	iliation: Ann	
		concave, convex, none): Aunmer Ky
		SP-2 Datum: 1/2/1/ 8. 2
Soil Map Unit Name/Type:CC/ in		land Type: 17/1021 - Rastan
Are climatic / hydrologic conditions on the site typical for this time of year?	<u> </u>	
Are Vegetation, Soil, or Hydrology significantly dis		Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled	Area
Hydric Soil Present? Yes No	within a Wetlan	d? Yes No 🥢
Wetland Hydrology Present? Yes No	If ves, optional W	/etland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)		
VEGETATION – Use scientific names of plants.		
/-	ominant Indicator	Dominance Test worksheet:
1. <u>Pickin Mariana</u>	EACL	Number of Dominant Species That Are OBL, FACW, or FAC:
2.	<u>LUSH</u>	
3		Total Number of Dominant Species Across All Strata: (B)
4.		
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
2=-	Total Cover	
Sapling/Shrub Stratum (Plot size: 3///)	-	Prevalence Index worksheet:
1. Abites bulsunde 5_	-AC	Total % Cover of: Multiply by:
2. Victo marine 5	- Ethe	OBL species $x_1 = 5$
3. Suglase coin bersiente 40_	FAL	FACW species $4 \times 2 = 18$
4. Rhexlextennen Cenerlansis 5_	FAC	FAC species $5+x3 = (7)$
5. Sucuradalanda Celycelate 5_	OBL_	FACU species x 4 =
Herb Stratum (Plot size: / / / )	Total Cover	UPL species x 5 =
1. Muinan Herraun Consultantis d	/ Fite	Column Totals: <u></u> (A) <u></u> (B)
	EACH	Prevalence Index = $B/A = 5.7$
3		Hydrophytic Vegetation Indicators:
4		Rapid Test for Hydrophytic Vegetation
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 <sup>1</sup>
7		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1	L L	Hydrophytic Vegetation
2	Total Cover	Present? Yes No

= Total Cover

Remarks: (Include photo numbers here or on a separate sheet.)

Murgh Hawk noted Circling wh

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

Sampling Point:	W/I	3-401
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Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks	
OSCN.				(2)	Ganic	_soff	
						4 VCG	
6 3	άč.		180.0 (M21))			8 T/38	
						S	
			0				
			· · · · · · · · · · · · · · · · · · ·				
		etion, RM=Re	duced Matrix, CS=Covered or C			cation: PL=Pore Lining, M=M	
Hydric Soil Ir			One de De des (OD)	1		for Problematic Hydric Soil	S:
Histosol (.		-	Sandy Redox (S5)	-		Prairie Redox (A16)	
Black His	pedon (A2)	-	Polyvalue Below Surface (S This Dark Surface (S0)	-0)		Mucky Peat or Peat (S3)	
	Sulfide (A4)	-	Thin Dark Surface (S9) Loamy Gleyed Matrix (F2)	-		anganese Masses (F12) ont Floodplain Soils (F19)	
	Layers (A5)	-	Depleted Matrix (F3)	-		arent Material (TF2)	
	Below Dark Surface	(A11) -	Redox Dark Surface (F6)	-		(Explain in Remarks)	
	k Surface (A12)		<ul> <li>Depleted Dark Surface (F7)</li> </ul>	-		/	
	icky Mineral (S1)	_	Redox Depressions (F8)				
	eyed Matrix (S4)	-					
		on and wetlan	d hydrology must be present, u	inless disturbed or p	problematio	G.	
	aver (if observed):						
Turner							
i ype:(	Cox K		_				
Depth (incl	· · · ·	0	-	н	ydric Soil	Present? Yes N	lo/
		~	- 		lydric Soil	Present? Yes N	lo
Depth (incl	nes): <u>50 m</u>				lydric Soil	Present? Yes N	lo
Depth (incl Remarks:	nes): <u>50 m</u>			H	-	Present? Yes N	
Depth (incl Remarks: YDROLOG Wetland Hyd	ines): <u>5C cm</u>		- 	H	Seconda	ary Indicators (minimum of tw	
Depth (incl Remarks: YDROLOC Wetland Hyde Primary Indica	Thes): <u>SC 47</u> SY rology Indicators: ators (minimum of or		<u>check all that apply)</u> Water-Stained Leaves (B	F	Second:	ary Indicators (minimum of tw face Soil Cracks (B6)	
Depth (incl Remarks: YDROLOC Wetland Hyde Primary Indica Surface V	Thes): <u>SC 47</u> SY rology Indicators: ators (minimum of or Vater (A1)		Water-Stained Leaves (B	F	Seconda Sur Dra	ary Indicators (minimum of tw face Soil Cracks (B6) inage Patterns (B10)	
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### Freshwater Wetland Data Sheet wLH

Date:	Wetland Atlas Number : <u>NAr unmapped</u> GIS Map / Stand No. : Wetland Form <sup>1</sup> :: <u>Wampp</u> Wetland size: <u>ha</u> Associated Watercourse:
Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp / // 7.Wooded swamp 8.Bog
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW	19.Floating leaved SM         20.Rooted floating leaved SM         21.Non-vegetated SM         22.Emergent seasonally flooded flats         23.Shrubby SFF         24.Grazed meadow         25.Ungrazed M         26.Sedge M         27.Sapling shrub swamp         28.Bushy SS         29.Compact SS         30.Low sparse SS         31.Deciduous wooded swamp /         32.Evergreen WS         33.Wooded bog         34.Shrubby B         35.Open B
Water Regime Indicator: 1.Permanently flooded 2.Saturated	3.Seasonally flooded
<u>Water Depth:</u> 1.0-5 cm 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

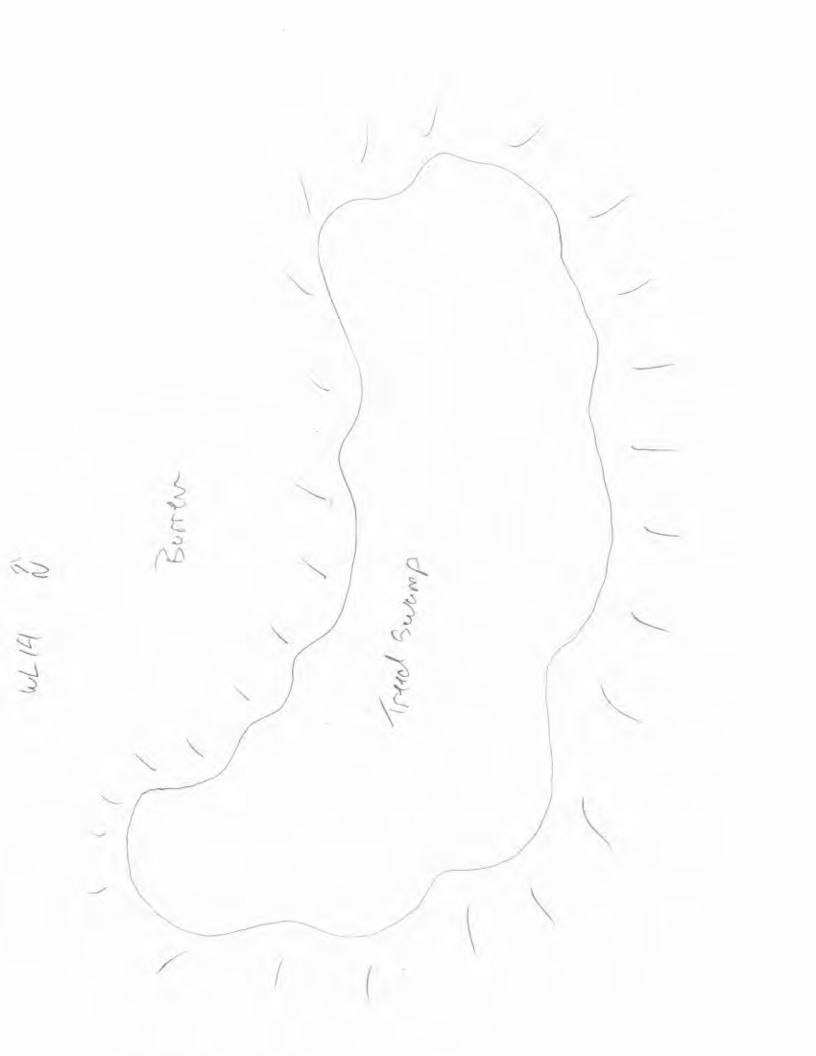
Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u><u> </u></u>
Vegetation Types (%): 1. Deciduous trees 30% i Red Mayle, Bot. Ce 2. Coniferous trees 30-40% Place Spull 3. Dead trees 45% 4. Tall shrubs 80% Rampfleukes musica 5. Low shrubs 20% Kalmin argustifolia, 6. Dead shrubs 40% 7. Herbs Ciman for 20% 8. Mosses 100% Shlummi Sp. 9. Narrow-leaved emergents 10. Broad-leaved emergents 11. Robust emergents 12. Free-floating plants 13. Floating plants (rooted) 14. Submerged plants 15. Other	ata; Vitsumen Muclum
Interspersion: 1.Minimal 2.Low 3.Mediu	ım 4.High
Conductivity: N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies:	
<u>Wildlife:</u> (Observation/Signs/Reports)	

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Adjacent Wildlife habitat (%): 1.Salt marsh 5.Beach 2.Forest \_\_\_\_ 10 -20 % 6.River 7. Other <u>Shubbanen</u> 80% -90% 3.Dykelands \_\_\_\_\_ 4.Mudflats \_\_\_\_\_ Description: mixed woods or comproves Surrounding Land Use %: 1 Agriculture \_\_\_\_\_\_ 2.Forestry \_\_\_\_\_\_\_\_\_\_\_, but not done 3 Recreation \_\_\_\_\_ 7.Residential 8.Waste Disposal 8.Waste Disposal \_\_\_\_\_ 9.Scientific Research \_\_\_\_\_ 4.Industrial 10.Trapping 5.Urban development 11.Education 12.Seasonal resident 6.Transportation **Description:** Disturbance: 1.Low \_\_\_\_ 2.Moderate \_\_\_\_ 3.High \_\_\_\_ **Description:** Roads and/or tracks: 1.Private road adjacent 4.DOT road within \_\_\_\_\_ 2.DOT road adjacent \_\_\_\_ 5.Vehicle tracks \_\_\_\_\_ 3. Private road within \_\_\_\_\_ 6.Other \_\_\_\_ Description: Property line, aut, ca 100m Existing Uses of Wetlands: 1.Economic use (e.g. farming) 4.Education & public awareness 2.Recreational activities \_\_\_\_ 5. None evident 3.Aesthetics \_\_\_\_\_ Potential Threats: debul on ment Special Features: 1.Rare wetland type 4.Nesting site for colonial water birds \_\_\_\_\_ 2.Rare animal or plant species \_\_\_\_\_ 5.Migration stop-over site \_\_\_\_\_ 3. Habitat of rare species \_\_\_\_\_ 6. None evident Description: Notes:

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WETLAND DET	<b>TERMINATION DATA FOR</b>	
Protocology ( Color	<u>_</u>	
	_ Municipality/County:	Shavengh Sampling Date: SIDI-3/
Applicant/Owner:		Sampling Point: WL14- WP1
investigator(s): S. Burley	Section, Township, R	ange: Blue Ks Print
Landform (hillslope, terrace, etc.):	Local relie	f (concave, convex, none): Hunuelez
Slope (%): 290 Eat: 644969		3348 Datum: NAT 83 UTY
Soil Map Unit Name: Rockland	Wetl	and Type: Trade Sump
Are climatic / hydrologic conditions on the site typical for th	is time of year? Yes	
Are Vegetation, Soli, or Hydrology		
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling point i	ocations, transects, important features, etc.
		ocations, transects, important features, etc.
	No Is the Sample	
Hydric Soll Present? Yes	No within a Wetla	and? Yes No
Wetland Hydrology Present? Yes	No If yes, optional	Wetland Site ID: WLILI
Remarks: (Explain alternative procedures here or in a se	parate report.)	
	•	
	10 MA	
VEGETATION – Use scientific names of plants		2 IN 12
Tree Stratum (Plot size: 1000)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Acresslyin	<u>% Cover Species?</u> Status	Number of Dominant Species 7
2. Pive Murima	1590 V. FACH	That Are OBL, FACW, or FAC: (A)
3. Marle and feeling	<u>550</u> FAC	Total Number of Dominant
4		Species Across All Strata: (B)
5		Percent of Dominant Species
	35 = Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index worksheet:
1. Remograthes neucomite	10% / ORL	Total % Cover of:Multiply by:
2. Libishum replan	STO X FACL	
3. (ISANDOLC & INC. ADDANTA	- 10910 _ EACL	FACW species 35 x2= 90
4. <u></u>	- <u> </u>	FAC species $50$ x3= $150$
5		FACU species x 4 =
Herb Stratum (Plot size://///)	25 = Total Cover	UPL species x 5 =
1. Cart & dr. Sparne. 2. Menen Manne Conclaps.	5030 1 021	Column Totals: 145 (A) 2802 (B)
2. Me near Housen Connections:	ZUSIO / FAC	Prevalence Index = $B/A = (.9)$
3. FILTE, AAR, J. MARC.	SGAZ EDRI	Hydrophytic Vegetation Indicators:
4. Virtinia maustikilia	IMAD FAL	Rapid Test for Hydrophytic Vegetation
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0 <sup>1</sup>
/		Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10		Indicators of hudsing it
Woody Vine Stratum (Plot size:)	65 = Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1)		in the second of presiding to
2		Hydrophytic
		Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate s	= Total Cover	
the separate state of on a separate s	maar)	
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Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2009)

	to be the second states or confi	irm the absence of indicators.)
ofile Description: (Describe to the depth	needed to document the indicator or conf	IIII HIS CROSHES ST HELSEN . 1
epth C-11 Matrix	Redox Features	
rettes) Color (molst) %	Color (moist) % Type' Loc*	Oronic Prest
		Gilt Hick argan? Con
20 SYR2.5/1		Gilt HOCK CAGAMIC CON
<u> </u>		
		d Grains, <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated San	Indicators for Problematic Hydric Soils <sup>9</sup> :
Hydric Soll Indicators:		Indicatora for the set
Histosol (A1)	Stripped Matrix (S6)	Sandy Gleyed Matrix (S4)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Surface (S9)	5 cm Mucky Peat or Peat (S3)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Iron-Manganese Masses (F12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	and the second
Depleted Dark Surface (F7)	Red Parent Material (TF2)	1
Sandy Redox (S5)	ter h	
	15 M	t to des schlematio
<sup>3</sup> Indicators of hydrophytic vegetation and w	etland hydrology must be present, unless dis	turbed of problematic.
Restrictive Layer (if observed):		
Type!	100 C	No.
Type!		Hydric Soll Present? Yes No
		Hydric Soll Present? Yes No
Type!		Hydric Soll Present? Yes No
Type: Depth (1520):		Hydric Soll Present? Yes No
Type: Depth (1520):		Hydric Soll Present? Yes No
Type: Depth (1520):		Hydric Soll Present? Yes No
Type: Depth (issue): Remarks:		
Type: Depth (is a constraint of the second se		Secondary Indicators (minimum of two requ
Type: Depth (iscore): Remarks: HYDROLOGY Wetland Hydrology Indicators:	wired: check all that apply)	Secondary Indicators (minimum of two requ
Type: Depth (ISC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec	puired: check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Type: Depth (ISC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1)	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) 
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Mari Deposits (B15)     Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Secondary Indicators (minimum of two rece Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial imagery ( Stunted or Stressed Plants (D1)
Type: Depth (ISAA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial imagery ( Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Type: Depth (is): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Secondary Indicators (minimum of two rece Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( g Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3)
Type: Depth (ISC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( G Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (ISC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7)	Secondary Indicators (minimum of two rece Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( g Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3)
Type: Depth (ISC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Jnundation Visible on Aerial Imagen	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain In Remarks)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( G Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (ISAN): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain In Remarks)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( G Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (ISAC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is red 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8)	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( G Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (ISAA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surfat Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (method):	Secondary Indicators (minimum of two requ Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery ( G Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (ISAC): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is red 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (increas): Depth (increas):	Secondary Indicators (minimum of two required)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (model): No Depth (model): No Depth (model):	Secondary Indicators (minimum of two required)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (model): No Depth (model): No Depth (model):	Secondary Indicators (minimum of two required)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (increas): Depth (increas):	Secondary Indicators (minimum of two required)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (model): No Depth (model): No Depth (model):	Secondary Indicators (minimum of two required)
Type: Depth (ISCA): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec Surface Water (A1) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (model): No Depth (model): No Depth (model):	Secondary Indicators (minimum of two required)
Type: Depth (ISAN): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec 	Water-Stained Leaves (B9) Aquatic Fauna (B13) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) (B7) Other (Explain in Remarks) ce (B8) No Depth (model): No Depth (model): No Depth (model):	Secondary Indicators (minimum of two required)

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2009)

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WETLAND DE		ATA FORM -	- NOVA SCOTIA
Project/Site: Black Point	Municipality/Cou	nty: GUSS	barrigh Sampling Date: A.G. 21/14
Applicant/Owner:			Sampling Point: WLH-UP
Investigator(s): 5. BLAFFC7	Affilia	tion: <u>A</u> M	EC
Landform (hillslope, terrace, etc.): <u>Hill Slepe</u>			(concave, convex, none): <u>Hermmark</u>
Slope (%): Lat: GH4 66 4-1	Long:	5013	322 Datum: ArAXE3
Soil Map Unit Name/Type:		We	tland Type: David - Bussen
Are climatic / hydrologic conditions on the site typical for this	s time of year? Y	es 📈 No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly distur	bed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	naturally problem		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	showing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       N         Hydric Soil Present?       Yes       N         Wetland Hydrology Present?       Yes       N         Remarks:       (Explain alternative procedures here or in a sep       Wetland!:       N         Wetland:       >       >       >       N		Is the Sampled within a Wetlan If yes, optional V	
VEGETATION – Use scientific names of plants.			
		ninant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>/Om</u> ) 1. <u>/ Clén Mén ( imén</u> )		cies? <u>Status</u>	Number of Dominant Species
2			That Are OBL, FACW, or FAC: (A)
3.			Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC:
	= Tol	al Cover	
Sapling/Shrub Stratum (Plot size: <u>6</u> )	10	- There is	Prevalence Index worksheet:
2. Alaus Crippa		n All	
3. Gran lugicing buccutts	20	FAC	FACW species $\frac{4}{6}$ x 2 = $\frac{80}{6}$
4. Drewnoch dres Mucoma the	102	/ FAC	FAC species $445$ x3 = $435$
5. Kulonica conclustifation	20 .	ZAC	FACU species $4 = 40$
	Her = Tot	al Cover	UPL species x 5 =
Herb Stratum (Plot size:)		100	Column Totals: <u>195</u> (A) <u>555</u> (B)
	30 -	<u> </u>	Prevalence Index = B/A = <u>A</u> . 8
2. Empetrica Niera 3. Kalonia ungust i fulia	- <u>&gt;0</u>	<u>PAL</u>	Hydrophytic Vegetation Indicators:
4. LUCCIA: UNA CARGUEST : fellium		<u> </u>	Rapid Test for Hydrophytic Vegetation
			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	+ Tol	al Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
		al Cover	
Remarks: (include photo numbers here or on a separate	sheet.)		
L			

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Sampling Point: WLH-UP)

Profile Description: (Des	atrix		Eeatures				V ~~
Depth (inches) Color (mo		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
05							1 11
<u> </u>						Offenie	
		De 20. 27					
							<u>\</u>
<u>s</u>							1 2 2
		· · · · · · · · · · · · · · · · · · ·					
	. <u> </u>						
<sup>1</sup> Type: C=Concentration, E	D≖Depletion, RN	I=Reduced Matrix, CS	=Covered c	or Coated	Sand G		cation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:							for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox					Prairie Redox (A16)
Histic Epipedon (A2)		Polyvalue Be		e (S8)			Mucky Peat or Peat (S3)
Black Histic (A3)		Thin Dark Su		_,			langanese Masses (F12)
Hydrogen Sulfide (A4) Stratified Layers (A5)		Loamy Gleye	•	2)			iont Floodplain Soils (F19)
Stratiled Layers (AS) Depleted Below Dark \$	Surface (A11)	Depleted Mat Redox Dark \$		<b>`</b>			arent Material (TF2) (Explain in Remarks)
Depleted Delow Dark C Thick Dark Surface (A'	, ,	Depleted Dar	• • •	•			(Explain in Remarks)
Sandy Mucky Mineral #	,	Redox Depre					
Sandy Gleyed Matrix (		• • • • • • • • • • • • • • • • •	••••• (•••)		-		
Indicators of hydrophytic v		vetland hydrology mus	t be present	t, unless (	disturbe	d or problemation	с.
Restrictive Layer (if obse							
Type:	Ľ						
Depth (inches): 5	CIAN					Hydric Soil	Present? Yes No
Remarks:							
					-		
				-0-			
	atore					Second	any Indicators (minimum of two required
Wetland Hydrology Indic		wined: check all that an					ary Indicators (minimum of two required
Wetland Hydrology Indica Primary Indicators (minimu						Sur	face Soil Cracks (B6)
Wetland Hydrology Indica Primary Indicators (minimu Surface Water (A1)	m of one is reg	Water-Stai	ned Leaves	s (B9)		Sur Dra	face Soil Cracks (B6) inage Patterns (B10)
Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2)	m of one is reg	Water-Stai	ned Leaves una (B13)	s (B9)		Sur Dra Mos	face Soil Cracks (B6) iinage Patterns (B10) ss Trim Lines (B16)
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	m of one is reg	Water-Stai Aquatic Fa Marl Depo	ned Leaves una (B13) sits (B15)	. ,	-	Sur Dra Mo: Dry	face Soil Cracks (B6) iinage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2)
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	m of one is requ	Water-Stai Aquatic Fa Marl Depo Hydrogen	ned Leaves una (B13) sits (B15) Sulfide Odo	or (C1)		Sur Dra Mos Dry Sat	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9)
Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	m of one is requ	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F	ned Leaves una (B13) sits (B15) Sulfide Odo thizosphere	or (C1) es on Livin	-	Sur Dra Mos Dry Sat (C3) Stu	face Soil Cracks (B6) iinage Patterns (B10) ss Trim Lines (B16) r-Season Water Table (C2) ruration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	im of one is requ ) 2)	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence o	ned Leaves una (B13) sits (B15) Sulfide Odo thizosphere of Reduced	or (C1) es on Livin Iron (C4)	-	Sur Dra Mos Dry Sat (C3) Stu Geo	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	im of one is requ ) 2)	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence o Recent Iro	ned Leaves una (B13) sits (B15) Sulfide Odo thizosphere of Reduced n Reduction	or (C1) os on Livin Iron (C4) n in Tilled	-	Sur Dra Mos Dry Sat (C3) Stu Geo 6) Sha	face Soil Cracks (B6) iinage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) allow Aquitard (D3)
Wetland Hydrology Indic: Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	im of one is requ ) 2)	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence of Recent Iro Thin Muck	ned Leaves una (B13) sits (B15) Sulfide Odo thizosphere of Reduced n Reduction Surface (C	or (C1) is on Livin Iron (C4) a in Tilled 7)	-	Sur Dra Mos Dry Sat (C3) Stu Gea 6) Sha Mic	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4)
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<ul> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on A</li> <li>Sparsely Vegetated C4</li> <li>Field Observations:</li> <li>Surface Water Present?</li> <li>Water Table Present?</li> <li>Saturation Present?</li> </ul>	im of one is requ ) 2) Aerial Imagery ( oncave Surface Yes Yes	Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized F Presence of Recent Iro Thin Muck B7) Other (Exp (B8)	ned Leaves una (B13) sits (B15) Sulfide Odo thizosphere of Reduced n Reduction Surface (C klain in Rem ches): ches):	or (C1) is on Livin Iron (C4) a in Tilled 7) narks)	Soils (C	Sur Dra Dra Sat (C3) Stu Gea 6) Sha Mic FAd	face Soil Cracks (B6) inage Patterns (B10) ss Trim Lines (B16) -Season Water Table (C2) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2) allow Aquitard (D3) crotopographic Relief (D4)
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# Freshwater Wetland Data Sheet $\omega L/5$

	Date: <u>Sept. 3/10</u> Investigator(s): <u>5. Bulkey</u> Weather: <u>Sept. 9</u> Topographic Sheet: <u></u> Aerial Photo Number:	Wetland Atlas Number : GIS Map / Stand No. : <u>C 45 3 UC / I</u> Z Co Wetland Form <sup>1</sup> :: <u>Tread Bray Monted Swern</u> / Fan Wetland size: <u>ha</u> Associated Watercourse:
	Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) _X_ 3.Fen (FE) _X_	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)X
	Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swamp 8.Bog
, p	Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM         10.Floating leaved DM	19. Floating leaved SM         20. Rooted floating leaved SM         21. Non-vegetated SM         22. Emergent seasonally flooded flats         23. Shrubby SFF         24. Grazed meadow         25. Ungrazed M         26. Sedge M         27. Sapling shrub swamp         28. Bushy SS         29. Compact SS         30. Low sparse SS         31. Deciduous wooded swamp         32. Evergreen WS         33. Wooded bog
	<u>Water Regime Indicator:</u> 1.Permanently flooded 2.Saturated	3 Seasonally flooded
	<u>Water Depth:</u> 1.0-5 cm <u>X</u> 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the aboveX_
Percent Vegetation Cover:           1.> 95%	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
Vegetation Types (%): 1. Deciduous trees 20% Acre Subrum 2. Coniferous trees 70% & Spruce 3. Dead trees 5% 4. Tall shrubs 40% - Hulleld way, Manne wi 5. Low shrubs 30% - Hulleld way, Manne wi 6. Dead shrubs - 7. Herbs 30% - Corte, Asic decum 8. Mosses 100% - Splugum 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) = 14. Submerged plants - 15. Other -	lad rais in , Alber, Bonharry Avg, Leden
Interspersion: 1.Minimal 2.Low 3.Mediu	$m \chi$ 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Streem in Ht through burnp Q. U.G.	+ Siche archarthets through the ester
Wildlife: (Observation/Signs/Reports)	
Common reller there t.	

Page 2

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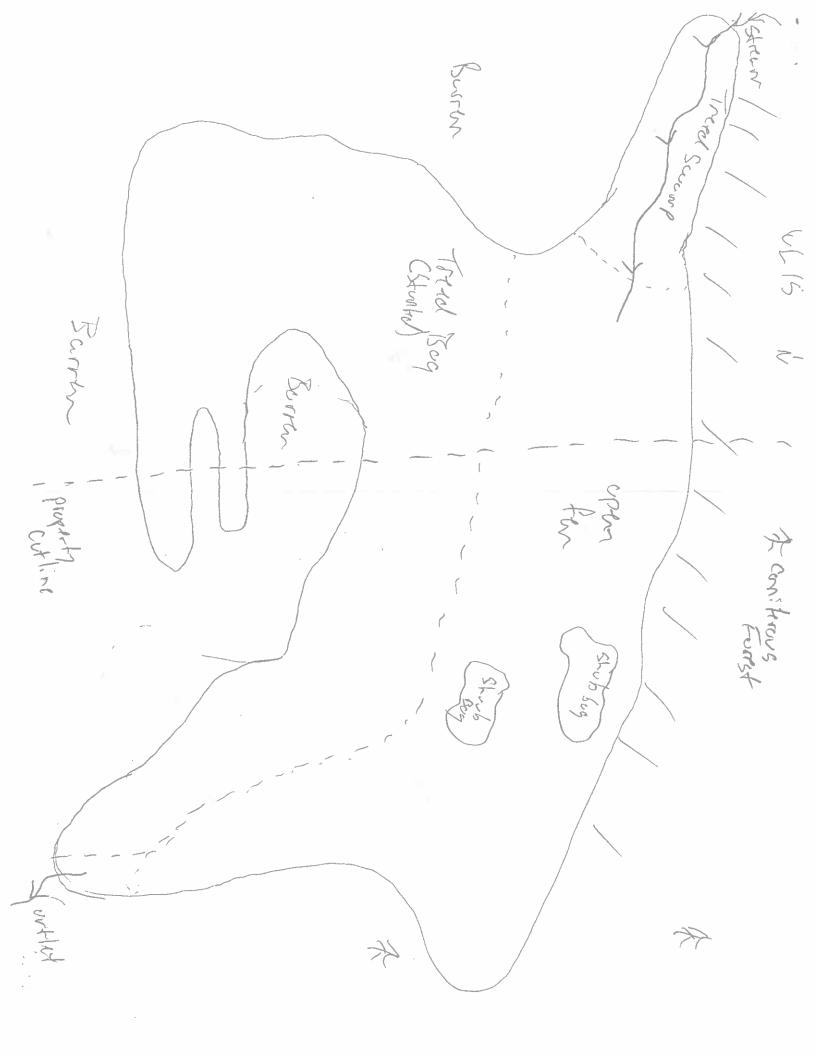
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Page 3

Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest 5090	
3.Dykelands	6.River 7. Other <u>509</u> 0 Savour
4.Mudflats	1. Other <u>307</u> 0 XVrW
Mudilats	
Description: mixed woods	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description:	143
Disturbance: 1.Low <u>2.Moderate</u> 3.High	
Description:	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other <u>&gt;</u>
Description: Propristy Cert live	
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident
3.Aesthetics	
Potential Threats:	
Special Easturne:	
Special Features:	A Nonting site for colonial water birds
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species <u>×</u>	6. None evident
Description: Pertha ticn	14 (A)
Notes:	
	11.

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WETLAND DE	LINEATION	DATA FORM -	- NOVA SCOTIA
Project/Site: Black Point	_Municipality/Co	unty: Grery &	Sampling Date: Arin 191
Applicant/Owner: <u>Virlin</u>			Sampling Point: ULIS-UPI
Investigator(s): <u>S. Bur Hy</u>	Affilia	Δ	ec
Landform (hillslope, terrace, etc.):うしょうマ	Ξ.	Local relief	(concave, convex, none):
Siope (%): Lat:	Long		LOO Datum: And So 3
Soil Map Unit Name/Type:			etland Type: UKAS Rug
Are climatic / hydrologic conditions on the site typical for thi	is time of year?		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	-		
Are Vegetation, ooli, or Hydrology a			"Normal Circumstances" present? Yes No
			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing san	npling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       N         Hydric Soil Present?       Yes       N         Wetland Hydrology Present?       Yes       N         Remarks:       (Explain alternative procedures here or in a set)	10 10	Is the Sampled within a Wetlar If yes, optional V	
/EGETATION – Use scientific names of plants			
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: ////////////////////////////////////	<u>% Cover</u> Sp	ecies? <u>Status</u>	Number of Dominant Species
1. Victe nurione. 2. Ahres bekende		<u> Ettu</u> Ettu	That Are OBL, FACW, or FAC: (A)
3		<u></u>	Total Number of Dominant
4.			Species Across All Strata: (B)
5.			Percent of Dominant Species
	(5 = To	otal Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5 AA )	<u> </u>		Prevalence Index worksheet:
1. Mysice gate	<u>- 35 - 4</u>	$\underline{-rrc}$	Total % Cover of: Multiply by:
2. Raylesciere bullete	- 50 -		OBL species $(5 \times 1 = (5 \times 1 = 1))$
3. Picter RAGETICANCA		Thu	FACW species $1$ $x_2 = 50$
4. Unancran The inverting to			FAC species x3 = FACU species x4 =
	$-\frac{1}{4}$ = To	tal Cover	UPL species x 5 =
Herb Stratum (Plot size: 10~)	<u>tere</u> - re	_	Column Totals: $\underline{1014}$ (A) $\underline{267}$ (B)
1. OSMUNDA CIARUMANA	2	- Ac	
2 one offener to balicon	10 .	<u> vel</u>	Prevalence Index = B/A =
3. Esjephorun (taway ould:	15	ORL	Hydrophytic Vegetation Indicators:
4. Lectura governandican		EAGU	Rapid Test for Hydrophytic Vegetation
5. Can & trigperona		CAL	Dominance Test is >50%
			Prevalence Index is ≤3.01
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10	<u>17</u> = To	otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation
	= To	otal Cover	Present? Yes No
Remarks; (Include photo numbers here or on a separate Eniopheren, Heuter Hirt, Nick	sheet.) Sphere cl	emind u	L Obera 11

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

33	
Sampling Point:	ULIS-WPI
ators )	

Color (moist) %	<u>Redox Features</u> <u>Color (moist)</u> % <u>Ype1</u> <u>Log</u>	2 Texture	Remarks
0-39		_ OFGMiz	Plat
		·	<u> </u>
		<u> </u>	
			·····
		<u> </u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sar	nd Grains <sup>2</sup> l oc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:			for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	Coast I	Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	5 cm M	lucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)	Iron-Ma	anganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmo	ont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Pa	arent Material (TF2)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Other (	Explain in Remarks)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)		
Sandy Mucky Mineral (S1)	Redox Depressions (F8)		
Sandy Gleyed Matrix (S4)	<i></i>		
<sup>3</sup> Indicators of hydrophytic vegetation and w	etland hydrology must be present, unless distu	irbed or problematic	
Restrictive Layer (if observed):			
Type: KAVStrell	1		
Depth (inches): 39 cm		Hydric Soil	Present? Yes / No
Depth (inches): <u>39.cm</u> Remarks:		Hydric Soil	Present? Yes No No
	-	Hydric Soil	Present? Yes <u>No</u> No
Remarks:			
Remarks:	ired; check all that apply)	Seconda	
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ		<u>Seconda</u>	iry Indicators (minimum of two requ ace Soil Cracks (B6)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1)	Water-Stained Leaves (B9)	<u>Seconda</u> Surf Drai	nry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	<u>Seconda</u> Surf Drai Mos	iry Indicators (minimum of two requ ace Soił Cracks (B6) nage Patterns (B10) s Trim Lines (B16)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Seconda Surf Drai Mos Dry-	iny Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Seconda Surf Drai Mos Dry- Satu	Inv Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R	<u>Seconda</u> Surf Drai Mos Dry- Satu oots (C3)Stur	iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4)	Seconda Surf Drai Mos Dry- Satu oots (C3)Stur Geo	Iny Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Seconda Surf Drai Nos Dry- Satu oots (C3)Stur Geo s (C6)Sha	ary Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7)	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	Iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) otopographic Relief (D4)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	ary Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	Iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) otopographic Relief (D4)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B) Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Thin Muck Surface (C7) Other (Explain in Remarks) (B8)	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	Iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) otopographic Relief (D4)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Thin Muck Surface (C7) Other (Explain in Remarks) (B8) Depth (inches): Out	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	Iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) otopographic Relief (D4)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8) No Depth (inches): <u>Curr</u> No Depth (inches): <u>Scurr</u>	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	Iry Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) otopographic Relief (D4)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8) No Depth (inches): <u>Curv</u> No Depth (inches): <u>Scurv</u>	Seconda Surf Drai Drai Mos Satu oots (C3)Stur Geo s (C6)Shal Micr	ary Indicators (minimum of two requi ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) rotopographic Relief (D4) S-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8)	Seconda Surf Drai Nos Dry- Satu oots (C3)Star Geo s (C6)Shal FAC	ary Indicators (minimum of two requi ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) rotopographic Relief (D4) S-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8) No Depth (inches): <u>Curr</u> No Depth (inches): <u>Scurr</u>	Seconda Surf Drai Nos Dry- Satu oots (C3)Star Geo s (C6)Shal FAC	ary Indicators (minimum of two requi ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) rotopographic Relief (D4) S-Neutral Test (D5)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8)	Seconda Surf Drai Nos Dry- Satu oots (C3)Star Geo s (C6)Shal FAC	ary Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) rotopographic Relief (D4) S-Neutral Test (D5)
Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface (E Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) (B8)	Seconda Surf Drai Nos Dry- Satu oots (C3)Star Geo s (C6)Shal FAC	ary Indicators (minimum of two requ ace Soil Cracks (B6) nage Patterns (B10) s Trim Lines (B16) Season Water Table (C2) uration Visible on Aerial Imagery (C nted or Stressed Plants (D1) morphic Position (D2) Ilow Aquitard (D3) rotopographic Relief (D4) S-Neutral Test (D5)

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

$\sim$ $\sim$ $\sim$ $\sim$	DELINEATION DATA FOR	
Project/Site: Rack Point	Municipality/County:	Sampling Date: AG 19
Applicant/Owner:	/	Sampling Point: 415-051
Investigator(s): <u>5 Sin Hy</u>	Affiliation: A	m 6c
Landform (hillslope, terrace, etc.):	Local r	elief (concave, convex, none): <u>Hermmueley</u>
Slope (%): <u>30790</u> Lat: <u>645490</u>	Long: 502	3/93 Datum: Not 385
Soil Map Unit Name/Type: <u>Por Klund</u>		Wetland Type:
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes1	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answers in Remarks.)
		,
Sommart OF FINDINGS - Attach site in	ap snowing sampling poil	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sam	
		Vetland? Yes No
Wetland Hydrology Present? Yes		onal Wetland Site ID:
Remarks: (Explain alternative procedures here or in	a separate report.)	
VEGETATION – Use scientific names of pl	ants	
	Absolute Dominant Indica	ator Dominance Test worksheet:
Tree Stratum (Plot size: 10.	<u>% Cover</u> Species? Stat	
1. filla operionen	<u> </u>	That Are OBL, FACW, or FAC: () (A)
2. Ahila balanda	<i>2 2</i> ,	C Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5	<u> </u>	That Are OBL, FACW, or FAC:(2/2/ (A/B)
Sapling/Shrub Stratum (Plot size: 500	= Total Cover	Prevalence Index worksheet:
1. Picker mariana	/5 Pt	L Total % Cover of: Multiply by:
2. U. bisava Aulum	<u> </u>	C OBL species x 1 =
3. Eulosia englistatelica	<u> </u>	<b>C</b> FACW species $2c^2 \times 2 = 4c^2$
4. Carplessafia baccation	<u> </u>	FAC species $102$ x 3 = $506$
5. Arenuponttes querenate		
Herb Stratum (Plot size:)	<u> </u>	UPL species $x = \frac{x}{(A)}$ (A) $\overline{34}$ (B)
1. CODUS CLOCKINS'S	a Et	
2. Employer - Nieture	10 / FA	
3. Fridanie Cancelstidedia	20 / PA	
4 mart flerin Procumptions	$\overline{2}$ $\overline{A}$	Rapid Test for Hydrophytic Vegetation
5. Is instal's herrealis	- FA	Dominance Test is >50%
6. Vuccinium conquest: felice		
7. ADa. o Honron Canallarsi	•	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9		
10		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:	) = Total Cover	be present, unless disturbed or problematic.
1		Hydrophytic
2		Vegetation
	= Total Cover	Present? Yes No No

Sampling Point:	WLIS-UPI

	rix	Redox Featur		<u></u>
Depth Matr (inohee) Color (moist	<u>t) %</u>	Color (moist) %	Type1Log	
0-8				- argenic Suff
·				
		···		
<sup>1</sup> Type: C=Concentration, D=	Depletion, RM=I	Reduced Matrix, CS=Cover	ed or Coated Sar	nd Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S5)		Coast Prairie Redox (A16)
Histic Epipedon (A2)		Polyvalue Below Sur	face (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)		Thin Dark Surface (S		Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix		Piedmont Floodplain Soils (F19)
Stratified Layers (A5)		Depleted Matrix (F3)		Red Parent Material (TF2)
Depleted Below Dark Su	urface (A11)	Redox Dark Surface	(F6)	Other (Explain in Remarks)
Thick Dark Surface (A12		Depleted Dark Surfa		
Sandy Mucky Mineral (S	,	Redox Depressions (		
Sandy Gleyed Matrix (S4			15	
<sup>3</sup> Indicators of hydrophytic veg	detation and wet	land hydrology must be pre	sent unless dist.	urbed or problematic
Restrictive Layer (if observ				
Type: Bedsack				
Depth (inches):				
Depth (inches):	- <u>ri</u> ~			Hydric Soil Present? Yes No
				· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicate				Secondary Indicators (minimum of two require
•		ed; check all that apply)		Secondary Indicators (minimum of two require Surface Soil Cracks (B6)
Wetland Hydrology Indicate		ed; check all that apply)	aves (B9)	
Wetland Hydrology Indicator Primary Indicators (minimum		Water-Stained Lea	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-Stained Lea	3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Wetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Lea Aquatic Fauna (B Marl Deposits (B1	3) 5)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<u>i of one is require</u>	Water-Stained Lea     Aquatic Fauna (B     Marl Deposits (B1     Hydrogen Sulfide	3) 5) Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<u>i of one is require</u>	Water-Stained Lea     Aquatic Fauna (B     Marl Deposits (B1     Hydrogen Sulfide     Oxidized Rhizospi	3) 5) Odor (C1) heres on Living Re	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>oots (C3)</li> <li>Stunted or Stressed Plants (D1)</li> </ul>
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	<u>i of one is require</u>	Water-Stained Lea     Aquatic Fauna (B     Marl Deposits (B1     Hydrogen Sulfide     Oxidized Rhizospi     Presence of Redu	3) 5) Odor (C1) heres on Living Re ced Iron (C4)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>oots (C3)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> </ul>
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	<u>i of one is require</u>	Water-Stained Lea     Aquatic Fauna (B     Marl Deposits (B1     Hydrogen Sulfide     Oxidized Rhizospi     Presence of Redu     Recent Iron Redu	3) 5) Odor (C1) heres on Living R ced Iron (C4) ction in Tilled Soil	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>sott or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>s (C6)</li> <li>Shallow Aquitard (D3)</li> </ul>
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#### Freshwater Wetland Data Sheet 6

c + c + c
Date:
Investigator(s): S & VM
Weather: Clark
Topographic Sheet: /
Aerial Photo Number:

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_\_ 2.Bog(BO) \_\_\_\_\_ 3.Fen (FE) \_\_\_\_

Wetland Class:

- 1.Open water \_\_\_\_ 2.Deep marsh
- 3.Shallow marsh

4.Seasonally flooded flats

Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3. Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM \_\_\_\_\_ 12.Robust DM 13.Narrow-leaved DM \_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_

<u>Water Depth:</u> 1.0-5 cm <u>X</u> 2.5-20 cm <u>X</u> → C-han ~ K 3.20-50 cm \_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_\_\_\_

19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22:Emergent seasonally flooded flats \_\_\_\_\_ 23.Shrubby SFF 24.Grazed meadow \_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_\_\_\_ 34.Shrubby B 35.Open B \_\_\_\_\_

3.Seasonally flooded  $\underline{\times}$ 

4.50-100 cm 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	<ul> <li>3.Ducks Unlimited Impoundment</li> <li>4. None of the above</li> </ul>	
<u>Percent Vegetation Cover:</u> 1.> 95%X 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%	
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic	
Vegetation Types (%): 1. Deciduous trees 2. Coniferous trees 10% - B. Spruce, B. Lir 3. Dead trees 55 4. Tall shrubs 3. 560 - Mamo, Wild Laisin 5. Low shrubs 1. 560 - Marrie gabe, tak the 6. Dead shrubs - 7. Herbs 4070 - Cinuman fern, Centry fri 8. Mosses 100% - Splashum fern, Centry fri 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) 14. Submerged plants - 15. Other		
Interspersion: 1.Minimal 2.Low 3.Medium 4.High		
Conductivity: N/A Alkalinity: N/A	<u>pH</u> : N/A	
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope	
Inlets/Outlets/water bodies: Stream Through flow		
Wildlife: (Observation/Signs/Reports)		
Chicadre Yelku Hora t		

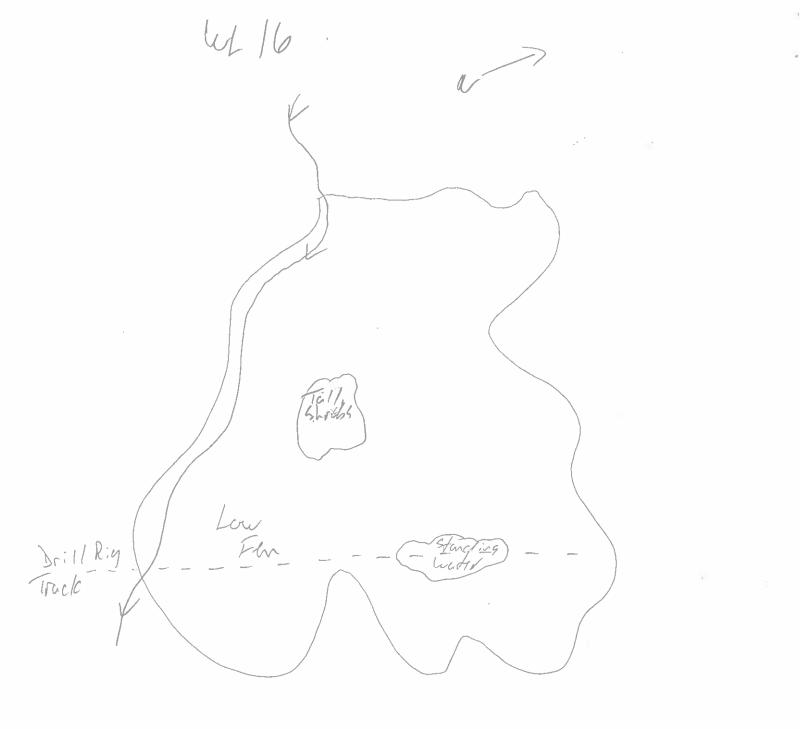
Page 2

Page 3

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest <u>/cc.<sup>o</sup>70</u> 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other
Description: mixed woods	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: Nor-c	
Disturbance: 1.Low 2.Moderate _X 3.High	
Description: Jrill Rig Hoursh	is a flora of .
Roads and/or tracks:         1.Private road adjacent         2.DOT road adjacent         3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description: Dr. 1) Rig Arack	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident <u>×</u>
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species _< Description: Nut_fin fin	4.Nesting site for colonial water birds         5.Migration stop-over site         6. None evident

Notes:

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			DATA FORM	
ro <sub>.</sub>	ject/Site: <u>ISICC PULAT</u>	Municipality/Cou	inty: <u>01,~4/5</u>	Sampling Date: Arr. 21
				Sampling Point: $(1/L/L) - (0/)/$
		Affilia		
	dform (hillslope, terrace, etc.):			
	De (%): Lat:	<u>Š</u> Long		3373 Datum: NA) 83
	Map Unit Name/Type:	<u> </u>		etland Type: +PAA
	climatic / hydrologic conditions on the site typical for t			
	Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes 🥢 No
9	Vegetation, Soil, or Hydrology	_ naturally problem	atic? (If ne	eeded, explain any answers in Remarks.)
U	MMARY OF FINDINGS – Attach site map	o showing sam	pling point lo	ocations, transects, important features, etc.
-Iy	drophytic Vegetation Present? Yes	No	Is the Sampled	
	/dric Soil Present? Yes		within a Wetla	174
	etland Hydrology Present? Yes _/	No	If yes, optional	Wetland Site ID:
<e< td=""><td>emarks: (Explain alternative procedures here or in a s</td><td>separate report.)</td><td></td><td></td></e<>	emarks: (Explain alternative procedures here or in a s	separate report.)		
Ē	GETATION – Use scientific names of plan			· · · · · · · · · · · · · · · · · · ·
_			ninant Indicator	Dominance Test worksheet:
	ee Stratum (Plot size:)		cies? <u>Status</u>	Number of Dominant Species
	Lipter Auriance		<u> Etti</u>	That Are OBL, FACW, or FAC: (A)
	Abieg helsene		Etc	Total Number of Dominant
•				Species Across All Strata: (B)
•				Percent of Dominant Species
•	·	<u>(5</u> = To		That Are OBL, FACW, or FAC: (A/B)
a	pling/Shrub Stratum (Plot size: 5	<u>()</u> = To	tal Cover	Prevalence Index worksheet:
	Myrice cabe	je .	FAC	Total % Cover of:Multiply by:
	Ciancian Leon	5	EAC	OBL species x1=
	NEmapor thes menometer	5	EAC	FACW species $2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 $
	Kulania oncurtitolic	5	- EAC	FAC species $44$ x3 = $13d$
•				FACU species x 4 =
		<u> </u>	tal Cover	UPL species x 5 =
e	$\frac{\text{Plot size:} (\mathcal{U} \wedge \mathcal{N})}{\mathcal{V}}$	<u> </u>	COSL	Column Totals: <u>55</u> (A) <u>75</u> (B)
	Church trisperma	<u></u>		Prevalence Index = $B/A = 2.7$
•	Centrus Concidentis		FAC	Hydrophytic Vegetation Indicators:
			_ ctc	Rapid Test for Hydrophytic Vegetation
				Dominance Test is >50%
				Prevalence Index is ≤3.0 <sup>1</sup>
				Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	·			
			al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	cody Vine Stratum (Plot size:)	4		Present, and a distance of problematic.
				Hydrophytic
				Vegetation Present? Yes No
		= To	tal Cover	
ίe	branks: (Include photo numbers here or on a separal	te sheet.)		
#				

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

9	
Sampling Point:	ULIG-up)

Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	<u>Color (moist)</u> <u>%</u> Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
2-40t		Oscimic Read
		······································
	RM=Reduced Matrix, CS=Covered or Coated Sand	
Hydric Soil Indicators:	Rivi-Reduced Matrix, CS=Covered or Coaled Sand	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Rest Redev (DC)	-
	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11 Thick Dark Surface (A12)		Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) Redox Depressions (F8)	
Sandy Mucky Mineral (ST) Sandy Gleyed Matrix (S4)		
Sandy Gleyed Matrix (34)		
31 - diagonal of budy and the very section of	al continued boundaries more by success the content of the second	had as south and a
	d wetland hydrology must be present, unless distur	bed or problematic.
Restrictive Layer (if observed):		
Туре:		
Type: Depth (inches):		Hydric Soil Present? Yes 🕖 No
		Hydric Soil Present? Yes <u>V</u> No
Depth (inches): Remarks:		Hydric Soil Present? Yes <u>V</u> No
Depth (inches): Remarks: 		
Depth (inches): Remarks: IYDROLQGY Wetland Hydrology Indicators:	2. 	Secondary Indicators (minimum of two requi
Depth (inches): Remarks: IYDROLQGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r	required; check all that apply)	Secondary Indicators (minimum of two requi
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1)	3. 	Secondary Indicators (minimum of two requi
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2)	required; check all that apply)	Secondary Indicators (minimum of two requi
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1)	required; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two requi
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) ots (C3) Stunted or Stressed Plants (D1)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) (C6) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) (C6) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two requited)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8)	Secondary Indicators (minimum of two requited)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) Depth (inches):	Secondary Indicators (minimum of two requi Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8)	Secondary Indicators (minimum of two requited)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations: Surface Water Present? Yes Water Table Present? Yes	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches):	Secondary Indicators (minimum of two requited in the second se
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches): V	Secondary Indicators (minimum of two requited in the second se
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches):	Secondary Indicators (minimum of two requited in the second se
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches): V	Secondary Indicators (minimum of two requited in the second se
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches): V	Secondary Indicators (minimum of two requited in the second se
Depth (inches):	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8) No Depth (inches): V	Secondary Indicators (minimum of two requited in the second se

WETLAND DEL	INEATIC	ON DATA FORM -	- NOVA SCOTIA
Project/Site: Rick Project/Site:	Municipality	County: 61470	showing b Sampling Date: Acg. 21/12
Applicant/Owner: La Ctua			Sampling Point: While-UP/
Investigator(s): S. Buch	/	Affiliation: AM	Ec
Landform (hillslope, terrace, etc.):		Local relief	(concave, convex, none): <u>CONUCIC</u>
Slope (%): 30 Lat: 645773		ong: SCJ	2520 Datum: ALAN 83
Soil Map Unit Name/Type:			illand Type: Dimed - Bankin
Are climatic / hydrologic conditions on the site typical for this			(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology si	-		No No
Are Vegetation, Soil, or Hydrology na			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	nowing	sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No         Wetland Hydrology Present?       Yes       No         Remarks:       (Explain alternative procedures here or in a separation)       No		Is the Sampled within a Wetlan If yes, optional V	
VEGETATION – Use scientific names of plants.			
Tree Stratum (Plot size: //	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1. Ab: -C. Salsande		FAC	Number of Dominant Species (A)
2. P. Cles mercione	5-90	EACLY	
3.		-	Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC:
~	20	= Total Cover	
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1. Howaie thating melancong	z. <u>12</u>	A TALL	Total % Cover of: Multiply by:
2. Calmia conglist, telia	30		OBL species x1 =
3. Brackhan Fligh	10	ST EAU	FACW species $20$ x 2 = $40$
4. ARMORONTHS INVERIMENTA		- FAC	FAC species $1000$ x 3 = $1000$
5. Anceleure Curaltera i	10	K FAC	FACU species $2c_{2}$ x4 = $6c_{2}$
Herb Stratum (Plot size:)	65	= Total Cover	UPL species $x5 = $
1. 1 Roleinium conclust: folium	Zn	FAC	Column Totals: (4, C2 (A) - (H-C2 (B)
2. CCRAUS concertansis	20	FAC	Prevalence Index = B/A = $5_{\circ} O$
3. Rubus altightensis	10	FALV	Hydrophytic Vegetation Indicators:
4. Lelup Goven/endicion	5	FAlu/	Rapid Test for Hydrophytic Vegetation
5			∠ Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7	·		Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	55	= Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1)			
2			Hydrophytic Vegetation
		= Total Cover	Present? Yes <u>No</u>
Remarks: (Include photo numbers here or on a separate s			I

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SOIL

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Sampling Poin	: Walls-	UPI

'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grain         'Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grain         Hydric Soil Indicators:         Histosol (A1)       Sandy Redox (S5)         Histic Epipedon (A2)       Polyvalue Below Surface (S8)         Black Histic (A3)       Thin Dark Surface (S9)         Hydrogen Sulfide (A4)       Loarny Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Deplet (in observed):         'Type:       Redox / Loc	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) S cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grain         Hydric Soil Indicators:	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) S cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) S cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) r problematic.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Histic Epipedon (A2)       Polyvalue Below Surface (S8)         Black Histic (A3)       Thin Dark Surface (S9)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed):         Type:       Image: Commentation of the second commentation of the s	<ul> <li>5 cm Mucky Peat or Peat (S3)</li> <li>Iron-Manganese Masses (F12)</li> <li>Piedmont Floodplain Soils (F19)</li> <li>Red Parent Material (TF2)</li> <li>Other (Explain in Remarks)</li> </ul>
Black Histic (A3)       Thin Dark Surface (S9)         Hydrogen Sulfide (A4)       Loarny Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)	<ul> <li>5 cm Mucky Peat or Peat (S3)</li> <li>Iron-Manganese Masses (F12)</li> <li>Piedmont Floodplain Soils (F19)</li> <li>Red Parent Material (TF2)</li> <li>Other (Explain in Remarks)</li> </ul>
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed):       Type:         Type:       Record Matrix (S4)         Pepth (inches):       //// C c c//         Remarks:       Remarks:         YDROLOGY       Yutland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	Piedmont Floodplain Soils (F19)     Red Parent Material (TF2)     Other (Explain in Remarks)
Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed): Type: Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Water-Stained Leaves (B9)	Red Parent Material (TF2)     Other (Explain in Remarks)  r problematic.
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)     Thick Dark Surface (A12) Depleted Dark Surface (F7)     Sandy Mucky Mineral (S1) Redox Depressions (F8)     Sandy Gleyed Matrix (S4)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed):     Type: Depth (inches): Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) Water-Stained Leaves (B9)	Other (Explain in Remarks)
Thick Dark Surface (A12) Depleted Dark Surface (F7)     Sandy Mucky Mineral (S1) Redox Depressions (F8)     Sandy Gleyed Matrix (S4)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed):     Type: Depth (inches): Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9)	r problematic.
Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed): Type:	······································
Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed): Type:Ref Depth (inches):C Depth (inches):Remarks:  YDROLOGY  Metland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Water-Stained Leaves (B9)	······································
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or Restrictive Layer (if observed): Type:	······································
Restrictive Layer (if observed):         Type:       Ref 100 km         Depth (inches):       ////////////////////////////////////	······································
Restrictive Layer (if observed):         Type:       Ref 100 km         Depth (inches):       ////////////////////////////////////	······································
Type:Ref. Rec Depth (inches):Cc Remarks: YDROLOGY YDROLOGY Yetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9)	Hydric Soil Present? Yes No
Depth (inches):	Hydric Soil Present? Yes No
Remarks:         YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	Hydric Soil Present? Yes <u>No</u>
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	
Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required
Surface Water (A1) Water-Stained Leaves (B9)	_ Surface Soil Cracks (B6)
	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C	
Drift Deposits (B3)	Geomorphic Position (D2)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7)	Microtopographic Relief (D4)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	
ield Observations:	
Surface Water Present? Yes No Depth (inches):	
Nater Table Present? Yes No Depth (inches):	
	nd Hydrology Present? Yes No
includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if	
Remarks:	available:
	available:
	available:

# Freshwater Wetland Data Sheet 64/9

Date:       Sept. 8/10         Investigator(s):       Sec. 4         Weather:       C/0.01-7         Topographic Sheet:	Wetland Atlas Number : GIS Map / Stand No. : Wetland Form <sup>1</sup> :: <u>@g</u> Wetland size: <u>ha</u> Associated Watercourse:
<u>Wetland Type</u> : 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) _ <u>X</u> 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swamp 8.Bog _X
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM         10.Floating leaved DM         11.Rooted floating leaved DM	19.Floating leaved SM         20.Rooted floating leaved SM         21.Non-vegetated SM         22.Emergent seasonally flooded flats         23.Shrubby SFF         24.Grazed meadow         25.Ungrazed M         26.Sedge M         29.Compact SS         30.Low sparse SS         31.Deciduous wooded swamp         32.Evergreen WS         33.Wooded bog _×         34.Shrubby B         35.Open B
<u>Water Regime Indicator:</u> 1.Permanently flooded 2.SaturatedX	3.Seasonally floodedX
<u>Water Depth:</u> 1.0-5 cm 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

Note: 1. Canadian Wetland Classification System (2nd Edition)

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Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: $1.> 95\%$ $\times$ $2.76-95\%$ in peripheral band $3.76-96\%$ in patches $4.26-75\%$ in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u>×</u> 5.Deltaic <u> </u>
Vegetation Types (%): 1.Deciduous trees – 2.Coniferous trees 25% - B. Spruce, Lore L 3.Dead trees 5% 4.Tall shrubs 15% - Mmo, vibir num 5.Low shrubs 40% - Kifler Huf, Hue Icheberry 6.Dead shrubs 7.Herbs 25% - Curtix 4ri, Khy cospora co 8.Mosses 9.Narrow-leaved emergents 10.Broad-leaved emergents 11.Robust emergents 12.Free-floating plants 13.Floating plants (rooted) 14.Submerged plants 15. Other	Hedon
Interspersion: 1.Minimal X 2.Low 3.Mediu	m 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>рН</u> : N/A
<u>Hydrological Classification:</u> 1.Surface water depression <u>×</u> 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies:	
Wildlife: (Observation/Signs/Reports)	

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Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest <u>909</u>	6 River
3.Dykelands	6. River 7. Other <u>~</u> - Bag @ East Side
4.Mudflats	1. other 1-20 - Day a Last Side
Description: mixed woods	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description: nord	
Disturbance: 1.Low X 2.Moderate 3.High	·
Description:	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other <u>×</u>
Description: Property Cut live	
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident_
3.Aesthetics	······································
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species	6. None evident
	·····
Description: Polentia /	
Notes:	

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WL-19 1 Ceni firous Forest Tornel Bag Treed Bog Coniferency Furs stonding water Ru. Ę L open Bog 1 I Flad Beg Trild Bug Conitions Property Cutline Forest

## Freshwater Wetland Data Sheet 420

Date: <u>Stot 0/10</u> Investigator(s): <u>S. Zuchn</u> Weather: <u>Clandin</u> Topographic Sheet: Aerial Photo Number:	Wetland Atlas Number : GIS Map / Stand No. : Wetland Form <sup>1</sup> :: <u>CUC Rog</u> Wetland size: <u>ha</u> Associated Watercourse:
Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swampX 8.Bog
Wetland Subclass:         1.Vegetated open water         2.Non-vegetated OW         3.Floating leaved OW         4.Rooted floating leaved OW         5.Dead woody OW         6.Vegetated deep marsh         7.Non-vegetated DM         8.Dead woody DM         9.Sub-shrub DM         10.Floating leaved DM	19. Floating leaved SM         20. Rooted floating leaved SM         21. Non-vegetated SM         22. Emergent seasonally flooded flats         23. Shrubby SFF         24. Grazed meadow         25. Ungrazed M         26. Sedge M         27. Sapling shrub swamp         28. Bushy SS         29. Compact SS         30. Low sparse SS         31. Deciduous wooded swamp         32. Evergreen WS         33. Wooded bog         34. Shrubby B         35. Open B
Water Regime Indicator: 1.Permanently flooded 2.Saturated	3.Seasonally flooded
<u>Water Depth:</u> 1.0-5 cm <u>V</u> 2.5-20 cm 3.20-50 cm	4.50-100 cm 5.>100 cm

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Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u>×</u> 5.Deltaic <u></u>
Vegetation Types (%): 1. Deciduous trees - 290 2. Coniferous trees - 60 90 - Fir, B. Sprue 3. Dead trees 290 4. Tall shrubs /5 - Romo - Libirium 5. Low shrubs /5 - Romo - Libirium 6. Dead shrubs - 7. Herbs Z5 90 - Correct drispur MG 8. Mosses 100 - 200 - 9. Narrow-leaved emergents - 10. Broad-leaved emergents - 11. Robust emergents - 12. Free-floating plants - 13. Floating plants (rooted) 14. Submerged plants - 15. Other -	
Interspersion: 1.Minimal <u>2.Low</u> 3.Mediu	m 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
<u>Inlets/Outlets/water bodies:</u> ภิภาณ	
Wildlife: (Observation/Signs/Reports)	

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Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest /algo	6.River
3.Dykelands	7. Other
4.Mudflats	
Description: mixed woods	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description: Parasline	
Disturbance: 1.Low _X_ 2.Moderate 3.High	
Description:	
Roads and/or tracks:	82
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other 🔽
Description: Angranty line	
Existing Uses of Wetlands:	
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident
3.Aesthetics	
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species <u>&lt;</u>	6. None evident
Description: Poth tin	

Notes:

1 N 4-20 ( Tirend Sworf Bug forest 7 × paul live Property out time

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WETLAND DE	LINEATION	DATA FORM -	- NOVA SCOTIA
Project/Site: Bluck Paint	Municipality/C	ounty: Gry	Sharry Sampling Date: Arg. 19/14
Applicant/Owner:			Sampling Point: <u>LL/G</u> - UP
Investigator(s): 5. Km hr.7	Affi		<u> </u>
Landform (hillslope, terrace, etc.).			(concave, convex, none): Arinnecky
Slope (%): Lat: 645 95%	Lor	ng: 52) A	562 Datum: 1148 83
Soil Map Unit Name/Type:		Wel	tland Type: 5000
Are climatic / hydrologic conditions on the site typical for thi	s time of year?	Yes No	
Are Vegetation, Soil, or Hydrology	significantly dist	turbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	naturally proble		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing co		
Sommart OF FINDINGS – Attach site map	snowing sa		cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	lo	Is the Sampled	
Hydric Soil Present? Yes		within a Wetlan	
Wetland Hydrology Present? Yes		If yes, optional V	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a set	parate report.)		
		<u> </u>	
VEGETATION – Use scientific names of plants			
Tree Stratum (Plot size: 10, A)		ominant Indicator pecies? Status	Dominance Test worksheet:
1. Lerrx Carence	700	277	Number of Dominant Species (A)
2. Dickle mariante	10	/ FTW	
3. Abies GalGandle	2	PAL	Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	31=1	Total Cover	
Sapling/Shrub Stratum (Plot size: 7 )	~	- 34	Prevalence Index worksheet:
1. Ahily be/Georta			Total % Cover of: Multiply by:
2. florite Originsti telig		<u>FAC</u>	OBL species $\underline{C}$ $x_1 = \underline{A}$ FACW species $\underline{C}$ $x_2 = \underline{A}$
4. & ROAD an All militante		- FAC	FAC species $\overrightarrow{87}$ x3 = $\overrightarrow{3-6}$
5. Dicka patriona	- <u></u>	Etter	FACU species x 4 =
······································	67 =1	Total Cover	UPL species x 5 =
Herb Stratum (Plot size:)			Column Totals: $// \ell_1$ (A) $3/25$ (B)
1. Maisanthenewan dr. felican		V (KL	•
2. Court trisperma	<u> </u>	QBL	Prevalence Index = B/A = 2.6
3			Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%Prevalence Index is ≤3.0 <sup>1</sup>
6			Morphological Adaptations <sup>1</sup> (Provide supporting
7			data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9 10.			
10.	20 =1	Cotal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	 		be present, unless disturbed of problematic.
1			Hydrophytic
2			Vegetation
		Total Cover	Present? Yes <u></u> No
Remarks: (Include photo numbers here or on a separate	sheet.)		

SOIL

14			
Sampling Point:	N	19-44	27

Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Lo	-
<u> -40+</u>		_ cilimic Reat
		ę
······································		
Type: C-Concentration D-Depletion Di	M=Reduced Matrix, CS=Covered or Coated Sa	nd Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	M-Reduced Matrix, CS-Covered of Coaled Sa	Indicators for Problematic Hydric Soils <sup>3</sup> :
1 Histosol (A1)		-
	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	
Sandy Gleyed Matrix (S4)		
<sup>3</sup> Indicators of hydrophytic vegetation and u	wetland hydrology must be present, unless dist	urbed or problematic
Restrictive Layer (if observed):	relation hydrology must be present, unless dist	
Туре:		
Depth (inches):		Hydric Soil Present? Yes <u> </u>
Remarks:		
Remarks:		
IYDROLOGY		Secondary Indicators (minimum of two requi
IYDROLQGY Wetland Hydrology Indicators:	uirod: chack all that apply)	
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is req		Surface Soil Cracks (B6)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is req Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is red Surface Water (A1) High Water Table (A2)		Surface Soil Cracks (B6)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is req Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is red Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is rea Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> </ul>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Roots (C3) Stunted or Stressed Plants (D1)
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)	Surface Soil Cracks (B6)     Drainage Patterns (B10)     Moss Trim Lines (B16)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C3)     Stunted or Stressed Plants (D1)     Geomorphic Position (D2)
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soi</li> </ul>	
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soi</li> <li>Thin Muck Surface (C7)</li> </ul>	Surface Soil Cracks (B6)     Drainage Patterns (B10)     Moss Trim Lines (B16)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C3)     Stunted or Stressed Plants (D1)     Geomorphic Position (D2)
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soi</li> <li>Thin Muck Surface (C7)</li> </ul>	
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living F</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soit</li> <li>Thin Muck Surface (C7)</li> <li>(B7)</li> <li>Other (Explain in Remarks)</li> </ul>	
iYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery         Sparsely Vegetated Concave Surface	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living F</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soit</li> <li>Thin Muck Surface (C7)</li> <li>(B7)</li> <li>Other (Explain in Remarks)</li> </ul>	
Image: Surface Water (A1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living F     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)	
Image: Sparsely Vegetated Concave Surface         Primary Indicators (minimum of one is required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface)         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     Depth (inches):	
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living F     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) ills (C6) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) ills (C6) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches):	Wetland Hydrology Present?       Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living F     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches): No Depth (inches):	Wetland Hydrology Present?       Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches):	Wetland Hydrology Present?       Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches):	Drainage Patterns (B10)     Moss Trim Lines (B16)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (CS     Saturation Visible on Aerial Imagery (DS)     Wetland Hydrology Present? Yes // No
Image: Sparsely Vegetated Concave Surface         Mathematical Stress         Image: Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery in Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?       Yes         Saturation Present?       Yes         Mater Table Present?       Yes         Saturation Present?       Yes         Mater Table Recorded Data (stream gauge, the stream gauge, the	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi     Thin Muck Surface (C7)     Other (Explain in Remarks) e (B8)     No Depth (inches):	Wetland Hydrology Present?       Yes No

WETLAND DE	LINEATION D	PATA FORM -	- NOVA SCOTIA
Project/Site: Black faint	Municipality/Cou	nty: Guya	breven L Sampling Date: Acg. 19/14
Applicant/Owner:			Sampling Point: <u>219</u> -09
	Affilia	tion: <u>ANA</u>	<u>ce</u>
Landform (hillslope, terrace, etc.):	<u> </u>	Local relief (	(concave, convex, none):
Slope (%): 2590 Lat: 645944	Long:	_5011	580 Datum: 114083
Soil Map Unit Name/Type:		We	tland Type:
Are climatic / hydrologic conditions on the site typical for this	s time of year? Y		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly distur	bed? Are "	'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	naturally problema		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes N         Hydric Soil Present?       Yes N         Wetland Hydrology Present?       Yes N		Is the Sampled within a Wetlan	
Remarks: (Explain alternative procedures here or in a sep	parate report.)		
VEGETATION – Use scientific names of plants.	•		
<u>Tree Stratum</u> (Plot size: <u>/// μΛ</u> )		ninant Indicator	Dominance Test worksheet:
1. Ahies balance	<u>% Cover</u> Spe	cies? <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. ACRE SILVEN		C FAC	
3. Picke Mensione		Z FALL	Total Number of Dominant
4.			
5	-		Percent of Dominant Species That Are OBL, FACW, or FAC:
	207 = Tot	al Cover	That Ale OBE, FACW, of FAC (A/B)
Sapling/Shrub Stratum (Plot size: <u>5</u> / <u>1</u> / )			Prevalence Index worksheet:
1. HS.CS balgance	20 1	<u> </u>	Total % Cover of:Multiply by:
2. Kalnic anglist talia		<u> </u>	OBL species x1 =
3. HCPF JUNIUM		- Etc	FACW species $x_2 = 10$
4. Sortus chron	<u>`</u>	<u></u>	FAC species $3 - 3 = 7 - 5 - 5$
5	$\frac{1}{2}$ $\frac{1}{2}$ = Tot	<u> </u>	FACU species x 4 =
Herb Stratum (Plot size: 100)	$\underline{\sigma}$ = Tot	al Cover	UPL species $x = 1$ Column Totals: $(A)$ $(B)$
1. Mainantealyn Concedensis	5	FAC	
2. Trionvalis Leveelis	2	FAC	Prevalence Index = B/A = <u>2.9</u>
3. Gent Herin Parember G	2	Fatc	Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8		<u> </u>	problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10	= Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			se present, unicas disturbed of problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
	= Tot	al Cover	Present? Yes <u>No</u>
Remarks: (include photo numbers here or on a separate	sheet.)		

Depthone	Matrix			x Features				
(inches) C	olor (moist)		Color (moist)	%Түре	Loc <sup>2</sup>			Remarks
i - l l = 1	<u> </u>					<u>Olemic</u>	- 00A	+
<u>(19_10)</u>	125/1					Sanal	Curate	al beloch
Type: C=Concent	ration, D=Deple		luced Matrix, C	S=Covered or Co	ated Sand G	Grains. <sup>2</sup> Loc	ation: PL=Pore	Lining, M=Matrix.
Hydric Soil Indica								c Hydric Soils <sup>3</sup> :
Histosol (A1)		_	_ Sandy Redo	ox (S5)		Coast	Prairie Redox (A	A16)
Histic Epipedo		-		elow Surface (S8)	•		Aucky Peat or P	
Black Histic (A Hydrogen Sulf	,	-	_ Thin Dark S				anganese Mass	
Stratified Laye			_ Loany Gley _ Depleted Ma	ed Matrix (F2) atrix (F3)			ont Floodplain S arent Material (1	
Depleted Belo		(A11) _		Surface (F6)			(Explain in Rem	-
Thick Dark Su		_	Depleted Da	ark Surface (F7)			• •	·
Sandy Mucky		-	_ Redox Depr	essions (F8)				
Sandy Gleyed	Matrix (S4)				2			
<sup>3</sup> Indicators of hydro	ohvtic vegetati	on and wetlan	d hydroloay mu	st be present, uni	ess disturbe	d or problematio	5.	
		•				· · · · · · · · · · · · · · · · · · ·		
<b>Restrictive Layer</b>								
	dack							
	dack	<u></u>	-	ν,		Hydric Soil	Present? Ye	es No
Type: Depth (inches):	dack	200	-			Hydric Soil	Present? Ye	es No
Type: <u> </u>	<u>Gack</u> (Ga	<u></u>	-					ninimum of two requi
Type: <u>F</u> Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog	y Indicators:		- - check all that a	pply)		Seconda	ary Indicators (m	ninimum of two requi
Type: <u>P</u> Depth (inches): Remarks:	y Indicators:		-2	poly) ained Leaves (B9)		<u>Second</u> :		ninimum of two requi
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators	y Indicators: (Minimum of or (A1)		Water-Sta			<u>Seconda</u> Suri Dra	ary Indicators (m face Soil Cracks	ninimum of two requi s (B6) (B10)
Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrolog Primary Indicators Surface Water	y Indicators: (minimum of or (A1) ble (A2)		Water-Sta	ained Leaves (B9)		<u>Seconda</u> Suri Dra Mos	ary Indicators (m face Soil Cracks inage Patterns (	ninimum of two requi s (B6) (B10) 16)
Type:	y Indicators: (minimum of or (A1) ble (A2) ) 31)		Water-Sta Aquatic F Marl Dep	ained Leaves (B9) 'auna (B13)		Seconda Suri Dra Mos Dry	ary Indicators (m face Soil Cracks inage Patterns ( ss Trim Lines (B -Season Water	ninimum of two requi s (B6) (B10) 16)
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### Freshwater Wetland Data Sheet: 421

Date: $A_{C}$ $B_{C}/B_{C}$ Investigator(s): Scott Burley Weather: $S_{CA}/C_{CC}/B_{C}$ $B_{C}$ Topographic Sheet: Aerial Photo Number:	Wetland Atlas Number : GIS Map / Stand No. : Wetland Form <sup>1</sup> :: Wetland size: <u>ha</u> Associated Watercourse:
<u>Wetland Type</u> : 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) _X 3.Fen (FE)	4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW)
Wetland Class: 1.Open water 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats	5.Meadow 6.Shrub swamp 7.Wooded swamp _X 8.Bog _X
<u>Wetland Subclass:</u> 1.Vegetated open water 2.Non-vegetated OW 3.Floating leaved OW	19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM
4.Rooted floating leaved OW 5.Dead woody OW 6.Vegetated deep marsh 7.Non-vegetated DM	22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow 25.Ungrazed M
8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM	26.Sedge M <u>X</u> 27.Sapling shrub swamp <u></u> 28.Bushy SS <u></u> 29.Compact SS <u></u> 30.Low sparse SS <u></u>
13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh 16.Robust SM 17.Narrow leaved SM 18.Broad leaved SM	31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog 34.Shrubby B 35.Open B
Water Regime Indicator: 1.Permanently flooded 2.SaturatedX	3.Seasonally flooded

 Water Depth:

 1.0-5 cm
 \_\_\_\_\_\_\_

 2.5-20 cm
 \_\_\_\_\_\_\_

 3.20-50 cm
 \_\_\_\_\_\_\_

4.50-100 cm \_\_\_\_ 5.>100 cm \_\_\_\_

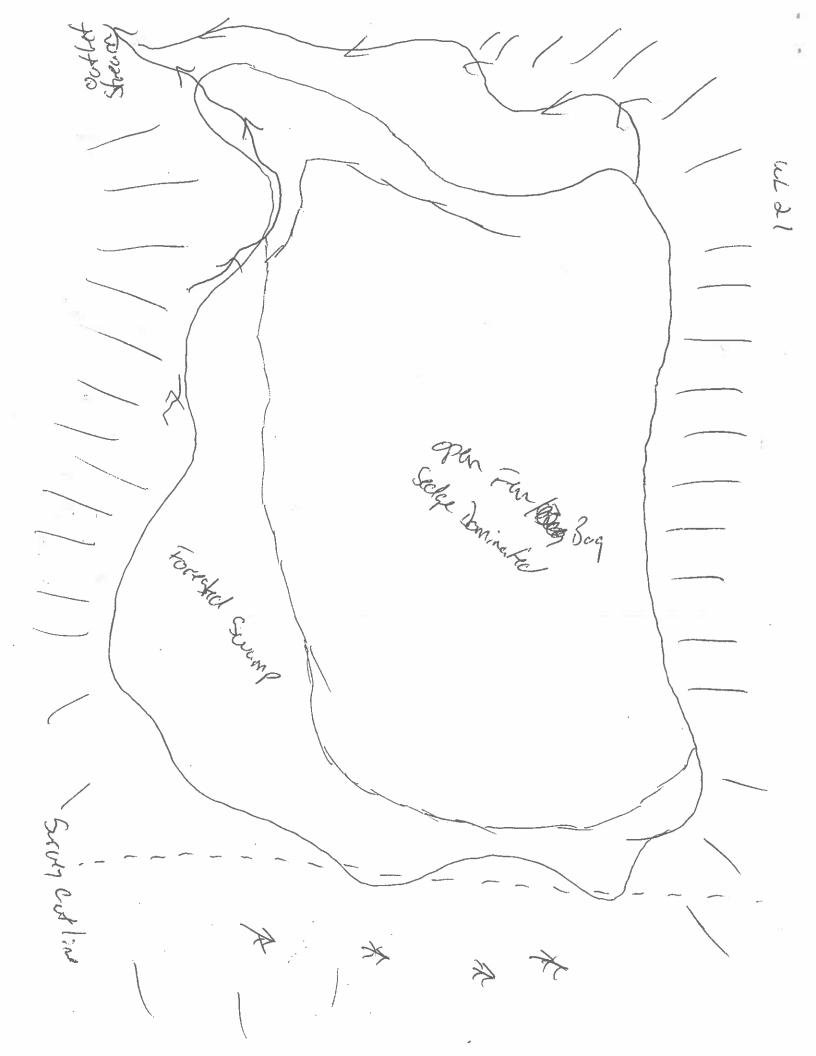
Note: 1. Canadian Wetland Classification System (2nd Edition)

We septh: > Horn offinic

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above
Percent Vegetation Cover: 1.> 95% _X 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
4. Tail shrubs 560 Areaner Ponthes IIIn 5. Low shrubs 560 (an the first Librar	(55%) Balson Fir Lufseitata, vikisnum Audem Mainentheman tritolian, diskr nemeralis Ilist, Erecphann, Celametrastic Concelentis 4. High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>рН</u> : N/A
Hydrological Classification:         1.Surface water depression         2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: 2 Main cut/kt cham/4 @ W	st end
Wildlife: (Observation/Signs/Reports) Currote Scat Rusit droppings Hapurd Frug	

Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest /arrzo	6.River
3.Dykelands	7. Other
4.Mudflats	
4.Muunais	
Description:	
Surrounding Land Use %:	
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	
5.Urban development	10.Trapping
	11.Education
6.Transportation	12.Seasonal resident
Description:	
Disturbance: 1.Low 2.Moderate 3.High	
Disturbance: 1.Low _ K 2.Moderate 3.High	
Description:	0
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	
3.Private road within	5.Vehicle tracks
	6.Other <u>K</u>
Description: Survey Cut live e	East evel, Highway 16 ~ 1500 to Sceth.
Existing Uses of Wetlands:	Sceth.
1.Economic use (e.g. farming)	4.Education & public awareness
2.Recreational activities	5. None evident <u>×</u>
3.Aesthetics	
Potential Threats:	
r otomar rinoato.	2
<u>Special Features:</u>	
1.Rare wetland type	A Nosting site for colonial water birde
2.Rare animal or plant species	4.Nesting site for colonial water birds
3.Habitat of rare species	5.Migration stop-over site
ornabilat of rate species	6. None evident
Description:	
N .	
<u>Notes</u> :	

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WETLAND DE		DATA FORM -	NOVA SCOTIA
Project/Site: Black Posit	Municipality/Cou	inty: Grange	Sharring L Sampling Date: July 2011
Applicant/Owner: UNIT www			Sampling Point: LL-LVP
Investigator(s): 5 Prop. Then Pup.M	<u>کہ</u> Affilia	ition: ANE	<u> </u>
Landform (hillslope, terrace, etc.):Stding		Local relief (	concave, convex, none): Heam ware ley
Slope (%): 2 Lat: 644+35	Long	_50218	Datum: <u>NAN 83</u>
Soil Map Unit Name/Type:		Wet	lland Type:
Are climatic / hydrologic conditions on the site typical for this	s time of year? ١	/es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly distu	bed? Are "!	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	naturally problem	atic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	showing sam	pling point lo	cations transacts important features atc
	showing sam		cations, transects, important readines, etc.
Hydrophytic Vegetation Present? Yes N	lo	Is the Sampled	
Hydric Soil Present? Yes N		within a Wetlan	
Wetland Hydrology Present? Yes N Remarks: (Explain alternative procedures here or in a ser	·	If yes, optional W	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a sep	parate report.)		
VEGETATION – Use scientific names of plants.			
THE 01 H IN 1014 11 1/2	Absolute Dor	ninant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>10</u> ) 1. <u>Pièces Meriana</u> )			Number of Dominant Species
2			That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant
4		I	
5			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
-	= To	tal Cover	
Sapling/Shrub Stratum (Plot size:)	<b>N</b>	< n.81	Prevalence Index worksheet:
1. Chumae duplace confectate		<u>USL</u> UBL	Total % Cover of:     Multiply by:       OBL species     50     x 1 =
3 Chroleolindian Concellars. 5	······································	& FALL	FACW species $5^{\circ}$ $x_2 = -70^{\circ}$
4. this his not	102	EH.	FAC species $(C_2 \times 3 = 3C)$
5. Pieren mariana	10	FAC	FACU species x 4 =
(	= To	tal Cover	UPL species x 5 =
Herb Stratum (Plot size:)	, . <del></del>	/	Column Totals: <u>96</u> (A) <u>(50</u> (B)
1. Rhullaspira alla		VE 12BL	Prevalence Index = B/A =
2. Science Productor			Hydrophytic Vegetation Indicators:
4. Dreilerz rotundi tellin		<u> </u>	Rapid Test for Hydrophytic Vegetation
5. Meinen Henry tr: Lelium	$\frac{10}{10}$	C OBL	Dominance Test is >50%
6. Cente refiling		ORL	Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u>45</u> = То	tal Cover	be present, unless disturbed or problematic.
1)			Hydrophytic
2			Vegetation
		tal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)	<u> </u>	· · · · · · · · · · · · · · · · · · ·

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Depth ( <u>inches)</u> ひ <i>ーみい</i> チ	Color (moist)		Color (moist)	<u>%</u> <u>Type'</u>		<u>Texture</u>		arks
	194							
ype: C=Co ydric Soil Ir		eletion, RM=Re	duced Matrix, CS	=Covered or Coate	d Sand Gra		ation: PL≔Pore Lin or Problematic Hy	
Black His Hydroger Stratified Depleted Thick Dai Sandy Mi	ipedon (A2)		Thin Dark Su Loamy Gleye Depleted Mat Redox Dark S	low Surface (S8) rface (S9) d Matrix (F2) rrix (F3) Surface (F6) k Surface (F7)		Coast F 5 cm M Iron-Ma Piedmo Red Pa	Prairie Redox (A16) ucky Peat or Peat ( Inganese Masses (I nt Floodplain Soils rent Material (TF2) Explain in Remarks	S3) F12) (F19)
	hydrophytic vegeta ayer (if observed)		nd hydrology mus	t be present, unless	disturbed o	or problematic.		
Type: Depth (incl	hes):					Hydric Soil I	Present? Yes _	No
Type: Depth (incl emarks:	hes):			~		Hydric Soil (	Present? Yes	No
Type: Depth (incl Remarks: YDROLOG	hes): SY rology Indicators					Seconda	ry Indicators (minim	tum of two required
Type: Depth (incl Remarks: YDROLOG Yetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	hes): rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) c or Crust (B4) posits (B5) n Visible on Aerial	one is required	<ul> <li><u>check all that ap</u></li> <li>Water-Stai</li> <li>Aquatic Fa</li> <li>Marl Depo</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence a</li> <li>Recent Iro</li> <li>Thin Muck</li> <li>Other (Exp</li> </ul>	ned Leaves (B9) una (B13)	)	Secondar Surfa Drain Moss Statu Satu Stan Stan Shall Micro	.e ;	num of two required ) e (C2) erial Imagery (C9) ints (D1) (2)
Type: Depth (incl Remarks: YDROLOG Vetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Saturation Unift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Wate Vater Table F Saturation Pre includes capi	hes): rology Indicators ators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Vegetated Concav ations: r Present? Present? Sesent? Jlary fringe)	Imagery (B7) e Surface (B8) fes No fes No	check all that ap Water-Stai Aquatic Fa Aquatic Fa Marl Depo Hydrogen Oxidized Fa Presence a Recent iro Thin Muck Other (Exp L Depth (ind	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) Rhizospheres on Livi of Reduced Iron (C4 n Reduction in Tilled Surface (C7) dain in Remarks) ches): ches):	) I Soils (C6)	Secondar Surfa Drair Dry-3 Satu Satu Seo Shall Shall FAC	ny Indicators (minim ace Soil Cracks (B6 hage Patterns (B10 s Trim Lines (B16) Season Water Tabl ration Visible on Ae ted or Stressed Pla morphic Position (D low Aquitard (D3) ptopographic Relief	aum of two required i) ) e (C2) erial Imagery (C9) ints (D1) i2) (D4)

WETLAND DE	LINEATION D	DATA FORM -	- NOVA SCOTIA
Project/Site: Ricce Paint	Municipality/Cou	nty: Gery	Glarence L_ Sampling Date: Arg. 18/19
Applicant/Owner: Lallin			Sampling Point: 142-21-6171
Investigator(s): 5 Bin My	Affilia	tion:	1 <u>6</u> C
Landform (hillslope, terrace, etc.): Hill Sch	÷7	Local relief (	(concave, convex, none): <u>He an Meck</u>
Slope (%): 590 Lat: 644843			92 Datum: NAZE3
Soil Map Unit Name/Type: Rection			tland Type:
Are climatic / hydrologic conditions on the site typical for thi	s time of vear? Y		
Are Vegetation, Soil, or Hydrologys			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r			reded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       N         Hydric Soil Present?       Yes       N         Wetland Hydrology Present?       Yes       N         Remarks:       (Explain alternative procedures here or in a september of the sector)       N		Is the Sampled within a Wetlan If yes, optional V	
VEGETATION – Use scientific names of plants.			
Tree/Stratum (Plot size: )		ninant Indicator	Dominance Test worksheet:
1. Licle Meritana	<u>% Cover</u> Spe	<u>Cies / Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
	2090	Z FAL	
3.			Total Number of Dominant Species Across All Strata:
4.			
5.			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	<u>35</u> = Tot	al Cover	
Sapling/Shrub Stratum (Plot size:)	~	< DU	Prevalence Index worksheet:
2. Abie 5 bal Sugette	<u>. 576 /</u>	- i-A-IL	Total % Cover of: Multiply by: OBL species x 1 =
2. <u>Illity Gal Studitca</u>		- FAC	OBL species $x_1 =$ FACW species $2x_2$ $x_2 =$ $4x_2$
3. A			FAC species $3/2 \times 3 = 63$
5			FACU species x 4 =
	10 = Tot	al Cover	UPL species x 5 =
Herb Stratum (Plot size:)	<u> </u>		Column Totals: 51 (A) 73 (B)
1. Kaloria anguistifalia	<u> </u>	ZEAL	
2. Acer subruan	<u> </u>	FAC	Prevalence Index = B/A =
3		I	Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation     Dominance Test is >50%
5		I	Prevalence Index is ≤3.0 <sup>1</sup>
6		I	Morphological Adaptations <sup>1</sup> (Provide supporting
7			data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			
Woody Vine Stratum (Plot size:)	= Tota	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
, 1,		- 22	Hydrophytic /
2			Vegetation
	= Tota		Present? Yes <u>No</u> No
Remarks: (Include photo numbers here or on a separate s	sheet.)		

S	O	L	
-	-		

Sampling Point:	W-21-	UP1

Hydric Soil Indicators:       Indicators:	2wic       Duff         Harm
2-10	<u> <u> <u> </u> <u> </u></u></u>
With the second seco	<u> <u> <u> </u> <u> </u></u></u>
YPE: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc         Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc         Histosol (A1)       Sandy Redox (S5)       Coast F         Histosol (A1)       Sandy Redox (S5)       Coast F         Histosol (A1)       Sandy Redox (S5)       Coast F         Histosol (A2)       Polyvalue Below Surface (S8)       5 cm M         Black Histic (A3)       Thin Dark Surface (S9)       Iron-Mat         Hydrogen Sulfide (A4)       Loany Gleyed Matrix (F2)       Piedmot         Stratified Layers (A5)       Depleted Matrix (F2)       Piedmot         Stratified Layers (A5)       Depleted Dark Surface (F6)       Other (f         Trinck Dark Surface (A12)       Depleted Dark Surface (F7)       Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Indicators (fi observed):         Type:       Type:       Comment       Hydric Soil I         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Indicators of hydrophytic vegetation and wetland hydrology for the first set for the first set for the first set for the first set for thydrophytic vegetation and wetland hydrology for the fir	2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       2         2       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         3       3         4       3         4       3         4       3         4       3         4       3         4       3         4       4         4       4         4
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc         tydric Soil Indicators:       Indicators indicators:       Indicators indindindicators indicators indicators indicators i	<sup>2</sup> Location: PL=Pore Lining, M=Matrix         icators for Problematic Hydric Soils <sup>3</sup> :         Coast Prairie Redox (A16)         5 cm Mucky Peat or Peat (S3)         Iron-Manganese Masses (F12)         Piedmont Floodplain Soils (F19)         Red Parent Material (TF2)         Other (Explain in Remarks)         Delematic.         ric Soil Present? Yes No         Secondary Indicators (minimum of two red _ Surface Soil Cracks (B6)
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc         tydric Soil Indicators:       Indicators indicators:       Indicators indindindicators indicators indicators indicators i	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Indicators:       Indicators:	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Indicators:       Indicators:	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Indicators:       Indicators:	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Indicators:       Indicators:	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Indicators:       Indicators:	icators for Problematic Hydric Soils <sup>3</sup> : Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic.
Histosol (A1)       Sandy Redox (S5)       Coast F         Histic Epipedon (A2)       Polyvalue Below Surface (S8)       5 cm M         Black Histic (A3)       Thin Dark Surface (S9)       Iron-Ma         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmod         Stratified Layers (A5)       Depleted Matrix (F3)       Red Pa         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Other (f         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Hydric Soil I         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Hydric Soil I         Remarks:       Type:       Sufface (M1)       Hydric Soil I         YDROLOGY       Vetland Hydrology Indicators:       Secondar         Primary Indicators (minimum of one is required; check all that apply)       Surface       Surface	Coast Prairie Redox (A16) 5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) blematic. ric Soil Present? Yes No Secondary Indicators (minimum of two red Surface Soil Cracks (B6)
Histic Epipedon (A2)       Polyvalue Below Surface (S8)       5 cm M         Black Histic (A3)       Thin Dark Surface (S9)       Iron-Ma         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmod         Stratified Layers (A5)       Depleted Matrix (F3)       Red Pa         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Other (F1)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Sandy Gleyed Matrix (S4)       Hydric Soil I       Hydric Soil I         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Hydric Soil I         Restrictive Layer (if observed):       Hydric Soil I       Hydric Soil I         Type:       Depth (inches):       Hydric Soil I         Wetland Hydrology Indicators:       Secondar         Primary Indicators (minimum of one is required; check all that apply)       Surface	5 cm Mucky Peat or Peat (S3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) blematic. ric Soil Present? Yes <u>No</u> <u>secondary Indicators (minimum of two rec</u> Surface Soil Cracks (B6)
Black Histic (A3)       Thin Dark Surface (S9)       Iron-Ma         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmode         Stratified Layers (A5)       Depleted Matrix (F3)       Red Pa	Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)  Delematic.  ric Soil Present? Yes No  Eecondary Indicators (minimum of two red Surface Soil Cracks (B6)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmod         Stratified Layers (A5)       Depleted Matrix (F3)       Red Pa         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Other (f         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Hydric Soil I         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Hydric Soil I         Type:       Suffice Commentation       Hydric Soil I         Depth (inches):       Z/ Commentation       Hydric Soil I         YDROLOGY       Yetland Hydrology Indicators:       Secondar         Primary Indicators (minimum of one is required; check all that apply)       Surface	Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks) olematic. ric Soil Present? Yes No econdary Indicators (minimum of two reconstructions)
Stratified Layers (A5) Depleted Matrix (F3) Red Pa Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Other (1) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:	Red Parent Material (TF2) Other (Explain in Remarks) olematic. ric Soil Present? Yes No econdary Indicators (minimum of two reconstructions) Surface Soil Cracks (B6)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)Other ( Thick Dark Surface (A12)Depleted Dark Surface (F7) Sandy Mucky Mineral (S1)Redox Depressions (F8) Sandy Gleyed Matrix (S4)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic testrictive Layer (if observed): Type:	Other (Explain in Remarks)  Dematic.  ric Soil Present? Yes No  Secondary Indicators (minimum of two red Surface Soil Cracks (B6)
Sandy Mucky Mineral (S1) Redox Depressions (F8)Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  testrictive Layer (if observed): Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Sandy Gleyed Matrix (S4) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Restrictive Layer (if observed):       Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Restrictive Layer (if observed):       Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Restrictive Layer (if observed):       Type:	ric Soil Present? Yes No Secondary Indicators (minimum of two rec Surface Soil Cracks (B6)
Type:       Beditect         Depth (inches):       21 Com         Remarks:       Hydric Soil I         YDROLOGY       YDROLOGY         Vetland Hydrology Indicators:       Secondar         Primary Indicators (minimum of one is required; check all that apply)       Surface	econdary Indicators (minimum of two rec Surface Soil Cracks (B6)
Depth (inches):       ZI Cim.       Hydric Soil I         Remarks:       YDROLOGY         YDROLOGY       Secondar         Primary Indicators (minimum of one is required; check all that apply)       Surface	econdary Indicators (minimum of two rec Surface Soil Cracks (B6)
YDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)	econdary Indicators (minimum of two rec Surface Soil Cracks (B6)
YDROLOGY         Vetland Hydrology Indicators:         Yrimary Indicators (minimum of one is required; check all that apply)	_ Surface Soil Cracks (86)
Vetland Hydrology Indicators:         Secondar           Primary Indicators (minimum of one is required; check all that apply)	_ Surface Soil Cracks (86)
Vetland Hydrology Indicators:         Secondar           Primary Indicators (minimum of one is required; check all that apply)	_ Surface Soil Cracks (86)
Primary Indicators (minimum of one is required; check all that apply)	_ Surface Soil Cracks (86)
Surface Water (A1) Water-Stained Leaves (B9) Drain	Drainage Patterns (B10)
	Moss Trim Lines (B16)
	Dry-Season Water Table (C2)
	<ul> <li>Saturation Visible on Aerial Imagery (</li> </ul>
	Stunted or Stressed Plants (D1)
	Geomorphic Position (D2)
	_ Shallow Aquitard (D3)
	_ Shallow Aquitard (D3) _ Microtopographic Relief (D4)
_ Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) ield Observations:	Microtopographic Relief (D4)
_ Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) ield Observations:	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches):	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): saturation Present? Yes No Depth (inches): roludes capillary fringe) Wetland Hydrology	Microtopographic Relief (D4) FAC-Neutral Test (D5) drology Present? Yes No _
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): saturation Present? Yes No Depth (inches): Wetland Hydrology	Microtopographic Relief (D4) FAC-Neutral Test (D5) drology Present? Yes No _
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): saturation Present? Yes No Depth (inches): mcludes capillary fringe) vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Microtopographic Relief (D4) FAC-Neutral Test (D5) drology Present? Yes No _
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): saturation Present? Yes No Depth (inches): roludes capillary fringe) Wetland Hydrology	Microtopographic Relief (D4) FAC-Neutral Test (D5) drology Present? Yes No _
Sparsely Vegetated Concave Surface (B8) ield Observations: surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): saturation Present? Yes No Depth (inches): mcludes capillary fringe) vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Microtopographic Relief (D4) FAC-Neutral Test (D5) drology Present? Yes No _

#### Freshwater Wetland Data Sheet: (L)

Date: Hers. 18/14 Investigator(s): Scott Burley Weather: San Clark Sherrors Topographic Sheet: \_\_\_\_ Aerial Photo Number: Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) 2.Bog(BO) \_\_\_\_\_ 3.Fen (FE) \_\_\_\_ Wetland Class: 1.Open water \_\_\_\_ 2.Deep marsh \_\_\_\_ 3.Shallow marsh 4.Seasonally flooded flats Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM 8.Dead woody DM \_\_\_\_\_ 9.Sub-shrub DM 10.Floating leaved DM \_ 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM \_\_\_\_ 17.Narrow leaved SM \_\_\_ 18.Broad leaved SM Water Regime Indicator: 1.Permanently flooded \_\_\_\_ 2.Saturated <u>X</u> Water Depth:

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_X

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_<u>&\_\_</u> 8.Bog \_\_\_\_

19.Floating leaved SM \_ 20.Rooted floating leaved SM 21.Non-vegetated SM \_\_\_\_ 22.Emergent seasonally flooded flats \_\_\_\_\_ 23.Shrubby SFF 24.Grazed meadow \_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 📉 33.Wooded bog \_\_\_\_\_ 34.Shrubby B \_\_\_\_\_ 35.Open B \_\_\_\_\_

3.Seasonally flooded \_\_\_\_\_

<u>Water Depth:</u> 1.0-5 cm \_\_\_\_\_ 2.5-20 cm \_\_\_\_\_ 3.20-50 cm \_\_\_\_

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Un Soil - 15en peut 15 en Bluk nuck = A3 101R 2/1 Bedruk & 30cm

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above _X
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated _ <u>×</u> 5.Deltaic
3.Dead trees 70% 4.Tall shrubs (5 20 Il R.MO.P.M. Hets Kall 5.Low shrubs The provided of the factor of the facto	
Interspersion: 1.Minimal <u>×</u> 2.Low 3.Mec	
<u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression Inlets/Outlets/water bodies:	3.Surface water slope 4.Ground water slope
None	
Wildlife: (Observation/Signs/Reports)	
whome. (Observation/Signs/Reports)	

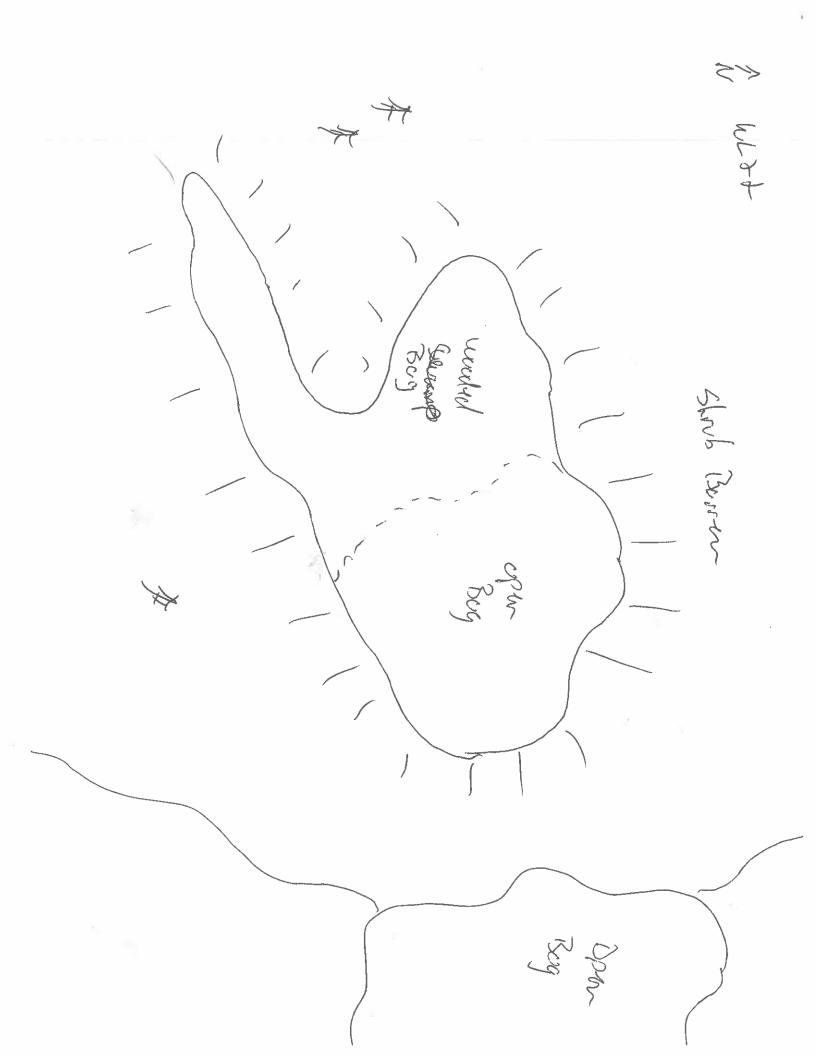
÷

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other
Description: 25% Fortst; Zc.2	Bey; 55% should Burnen
Surrounding Land Use %: 1 Agriculture 2.Forestry 255 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: Simull	
Disturbance: 1.Low 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.OtherX
Description: Serving Letline e	- best enel
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident'X
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species $\underline{X}$ 3.Habitat of rare species $\underline{X}$	4.Nesting site for colonial water birds          5.Migration stop-over site          6. None evident
Description: GreeCaulan lividum	Present in Bug
Notes:	. /

×

12

Page 3



Project/Site: Black R. Posint	_Municipality/Co	unty: 6200	Sharring L Sampling Date: July 2
Applicant/Owner: UNI w		/	Sampling Point: White-up1
nvestigator(s): Sector The Pap	AA C Affili	ation: A.M.	
			(concave, convex, none): Hummer (1-
Slope (%): Lat:		Locarreller	(concave, convex, none). <u>Nrt. py(vy(2), 11-5</u>
	Long		Datum: <u>NANOS</u>
			etland Type:Scr.c
re climatic / hydrologic conditions on the site typical for th	is time of year?	Yes No	(If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	significantly distu	irbed? Are	"Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology	naturally problem	natic? (If ne	eeded, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map	showing san	npling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	1 Area
Hydric Soil Present? Yes		within a Wetla	nd? Yes No
Wetland Hydrology Present? Yes		If yes, optional y	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a se			
EGETATION – Use scientific names of plants			
· · · · · · · · · · · · · · · · · · ·	Absolute Do	minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> Sp	ecies? Status	Number of Dominant Species
1. Picto manima		/ FACE	That Are OBL, FACW, or FAC:(A)
			Total Number of Dominant
			Species Across All Strata:
k			
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5	<u>25</u> = To	otal Cover	(***)
Sapling/Shrub Stratum (Plot size:)	0		Prevalence Index worksheet:
Picter mariane		-	Total % Cover of: Multiply by:
)			OBL species x1 =
·			FACW species $45$ $x_2 = 900$
. <u> </u>			FAC species $35 \times 3 = 03$
·			FACU species x 4 =
lerb Stratum (Plot size:)	20) = To	tal Cover	UPL species x 5 =
Manian themeon It. Fellion	10	< TAC	Column Totals: 7.02 (A) 205 (B)
		Fite	Prevalence index = $B/A = \frac{2 \cdot 3}{3}$
		/ CBL	Hydrophytic Vegetation Indicators:
Osnunda Cinnenem co			Rapid Test for Hydrophytic Vegetation
		<u> </u>	Dominance Test is >50%
·			Prevalence Index is ≤3.0 <sup>1</sup>
·			Morphological Adaptations <sup>1</sup> (Provide supporting
·			data in Remarks or on a separate sheet)
*			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0	H5 = To	tal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Voody Vine Stratum (Plot size:)			
			Hydrophytic
l 2	= To		Vegetation Present? Yes No No

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Sampling Point:	ht-dd-up1
Acres 1	

Profile Description	Matrix		Redo	ox Features			
(inches)			Color (moist)	%			Texture Remarks
0-40t						C	TEMil Acart
							7
17	centration, D=Depl		- durand Matrix Of				2
Hydric Soil In			equiced Matrix, Ca	S=Covered c	or Coated s		2 2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (/	A1)		Sandy Redo				Coast Prairie Redox (A16)
Histic Epip			Polyvalue Be		s (S8)		5 cm Mucky Peat or Peat (S3)
Black Hist			Thin Dark Su				Iron-Manganese Masses (F12)
Hydrogen			Loamy Gleye	ed Matrix (F2	<u>2)</u>		Piedmont Floodplain Soils (F19)
Stratified L			Depleted Ma	itrix (F3)			Red Parent Material (TF2)
	Below Dark Surface		Redox Dark				Other (Explain in Remarks)
	Surface (A12)		Depleted Da	rk Surface (F	-7)		
	cky Mineral (S1)		Redox Depre	essions (F8)			
Sandy Gle	yed Matrix (S4)						
	ydrophytic vegetati	on and wetla	ind hydrology mus	st be present	t, unless di	sturbed or p	problematic.
<b>Restrictive La</b>	yer (if observed):						
_							
Type:							
	es):					н	ydric Soil Present? Yes 🔔 No
Depth (inch Remarks:	es):					н	ydric Soil Present? Yes 🔔 No
Depth (inch Remarks:	es): Y						
Depth (inch Remarks: IYDROLOG Wetland Hydro	es): Y blogy Indicators:						Secondary Indicators (minimum of two require
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat	es): Y blogy Indicators: ors (minimum of on		l; check all that ap				Secondary Indicators (minimum of two require Surface Soil Cracks (B6)
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W	es): Y blogy Indicators: ors (minimum of on ater (A1)		<u>; check all that ap</u>	ined Leaves	(B9)		Secondary Indicators (minimum of two require
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W High Wate	es): Y blogy Indicators: ors (minimum of on ater (A1) r Table (A2)		l; check all that an Water-Sta Aquatic Fa	ined Leaves auna (B13)	. ,		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W High Wate	es): Y blogy Indicators: ors (minimum of on ater (A1)		<u>; check all that ap</u>	ined Leaves auna (B13)	. ,		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W High Wate	Y Diogy Indicators: ors (minimum of on ater (A1) r Table (A2) (A3)		I; check all that an Water-Sta Aquatic Fa	ined Leaves auna (B13)			Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10)
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar.	es): Y blogy Indicators: ors (minimum of on ater (A1) r Table (A2) (A3) ks (B1)		I: check all that an Water-Sta Aquatic Fa Marl Depo Hydrogen	ined Leaves auna (B13) sits (B15) Sulfide Odo	r (C1)		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Depth (inch Remarks: IYDROLOG Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I	es): Y blogy Indicators: ors (minimum of on ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)		I: check all that an Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F	ined Leaves auna (B13) sits (B15) Sulfide Odor Rhizospheres	r (C1) s on Living		Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
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WETLAND DEI	LINEATION	DATA FORM -	- NOVA SCOTIA
Project/Site: RackPoint	Municipality/Co	ounty: Courts C	harden Sampling Date: Aug. 18/1
Applicant/Owner: Unlin			Sampling Point: 44-12-UPI
Investigator(s): 5. Bud bry	Affili	_	€C
Landform (hillslope, terrace, etc.): Testace 17-100	+	Local relief (	(concave, convex, none): Hun micky
Slope (%): 1078 Lat: 64430.	Long	$( \land \land ) $	
Soil Map Unit Name/Type: Kirklind		Wei	Iland Type: Unclanch
Are climatic / hydrologic conditions on the site typical for this	time of year?		- / -
Are Vegetation, Soil, or Hydrology s			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	nowing san		cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	o	Is the Sampled	Area
Hydric Soil Present? Yes N		within a Wetlan	nd? Yes Mer No
Wetland Hydrology Present? Yes N		If yes, optional V	Netland Site ID:
Remarks: (Explain alternative procedures here or in a sep	arate report.)		
VEGETATION – Use scientific names of plants.			
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 2010)		ecies?_ Status	Number of Dominant Species
1. Vicen Alaripen		<u> Ettu</u>	That Are OBL, FACW, or FAC: (A)
2. AL 25 hellamere			Total Number of Dominant
3. fee: & Leveline			Species Across All Strata:(B)
5.	·		Percent of Dominant Species That Are OBL, FACW, or FAC:
·····	21 = TO	otal Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5 00.)	2	<u> </u>	Prevalence Index worksheet:
1. Arenapenthis Augumenter	· <u>~</u>		Total % Cover of: Multiply by:
2. Faloric angest better	$\frac{1}{15}$		OBL species         x1 =           FACW species         (1         x2 =         22
4. (ilistin antin	<u>-73</u>	Fit C	FAC species $(O + x) = 30\%$
5. Ledin asconsillarition		- FAC	FACU species x4 =
	402 = TO	otal Cover	UPL species x 5 =
<u>Herb Stratum</u> (Plot size: $/ (n / n)$ )	)	10.	Column Totals: 113 (A) 325 (B)
1. Cuenus Congelansis	<u>. Cb</u>		Prevalence Index = B/A =a
2. Irinntalis herealis	<u>    (0                                </u>	EAC	Hydrophytic Vegetation Indicators:
4. Alicia in Acore Censuelien Gib	·	740	Rapid Test for Hydrophytic Vegetation
5. / 16 PC:n:un Cnewst: Jelium	2	FAC	Dominance Test is >50%
6		10	Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9	·		
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u>~</u> = T(	otal Cover	be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation
		otal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)		· · · · · · · · · · · · · · · · · · ·
			>

		th needed to docur		or or confirm	n the absence o	f indicators.)	
Depth CM Matr (Inches) M Color (moist		Color (moist)	x Features		Texture	Remarks	
0~10						C 2 Man 12	N. LI
10-15 10YR	5/1	20			2-111	<u>Cogin i C</u>	
0-15 10 10 5	10	10			THE CE	M	
· · · · · · · · · · · · · · · · · · ·				<u> </u>			
							•
Type: C=Concentration, D=	Depletion, RM=	Reduced Matrix. C	S=Covered or Co	 ated Sand Gr	ains. <sup>2</sup> l.oca	ition: PL=Pore Lining,	M=Matrix.
Hydric Soil Indicators:						or Problematic Hydrid	
Histosol (A1)		Sandy Redo	x (S5)		Coast P	rairie Redox (A16)	
Histic Epipedon (A2)		Polyvalue Be	elow Surface (S8)		5 cm Mi	ucky Peat or Peat (S3)	
Black Histic (A3)		Thin Dark St				nganese Masses (F12)	
Hydrogen Sulfide (A4)		Loamy Gleye				nt Floodplain Soils (F1)	9)
Stratified Layers (A5) Depleted Below Dark Su	rface (A11)	Depleted Ma Redox Dark	Surface (F6)			rent MateriaF(TF2) 🥂 Explain in Remarks)	
Depicted Delow Dank Of Thick Dark Surface (A12	, ,		ark Surface (F7)				
Sandy Mucky Mineral (S		Redox Depre					
Sandy Gleyed Matrix (S4	+)			-			
Indiantan of hydrochytic co	natation and			and alternative and			
Indicators of hydrophytic ve Restrictive Layer (if observ		alanu nyurology mu	st be present, uni	ess disturbed	Tor problematic.		
<u> </u>	102						
Type: Deal M.A.							
Type: Rectoric					Hudria Sail I	Present? Vee	No
Type: <u>Recation</u> Depth (inches): <u>5</u> Remarks:				2	Hydric Soil F	Present? Yes	No
Depth (inches): <u>(5 c</u> Remarks:				*	Hydric Soil F	Present? Yes	No
Depth (inches): <u>5</u> c Remarks: YDROLOGY	m			*			
Depth (inches): <u>(5 c</u> Remarks: YDROLOGY Wetland Hydrology Indicat	ors:			32 	Secondar	y Indicators (minimum	
Depth (inches): <u>5</u> C Remarks: YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum	ors:			**	<u>Secondar</u> Surfa	y Indicators (minimum ice Soil Cracks (B6)	
Depth (inches): <u>5</u> c Remarks: <b>YDROLOGY</b> Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1)	ors:	Water-Sta	ained Leaves (89)		Secondar	<u>y Indicators (minimum</u> ice Soil Cracks (B6) iage Patterns (B10)	
Depth (inches): <u>5</u> c Remarks: <b>YDROLOGY</b> <b>Wetland Hydrology Indicat</b> <u>Primary Indicators (minimum</u> Surface Water (A1) High Water Table (A2)	ors:	<sup>a</sup> Water-Sta Aquatic Fa	ained Leaves (B9) auna (B13)	)	Secondar Surfa Drair Moss	<u>y Indicators (minimum</u> ice Soil Cracks (B6) iage Patterns (B10) is Trim Lines (B16)	of two required
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum 	rial Imagery (B7 cave Surface (B Yes f Yes f	Water-Sta Aquatic F Marl Depo Hydrogen Oxidized I Presence Recent Ind Thin Mucl 7) Other (Ex B8) No Depth (ir No Depth (ir No Depth (ir	ained Leaves (B9) auna (B13) osits (B15) a Sulfide Odor (C1 Rhizospheres on of Reduced Iron on Reduction in T k Surface (C7) splain in Remarks) nches): nches):	) Living Roots (C4) illed Soils (C6 )   Wetl	Secondar Surfa Drair Dry-S Satur (C3) Sturf Geor 3) Shall Geor 5) Shall FAC- 	y Indicators (minimum ace Soil Cracks (B6) age Patterns (B10) 5 Trim Lines (B16) Season Water Table (C ration Visible on Aerial red or Stressed Plants norphic Position (D2) ow Aquitard (D3) otopographic Relief (D4 Neutral Test (D5)	of two required 2) Imagery (C9) (D1)

in.

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

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#### Freshwater Wetland Data Sheet: $U_{L} \downarrow 3$

Date: Aug. (E/(H Investigator(s): Scott Burley Weather: Sea (Caref) Shalwing Topographic Sheet: \_\_\_\_\_\_ Aerial Photo Number: \_\_\_\_\_ Pum Breucics Day Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_ 2.Bog(BO) <u>K</u> 3.Fen (FE) \_\_\_\_

Wetland Class: 1.Open water \_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_\_ 6.Vegetated deep marsh 7.Non-vegetated DM \_\_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_ 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_ Wetland Atlas Number : \_\_\_\_\_ GIS Map / Stand No. : \_\_\_\_\_ Wetland Form<sup>1</sup>:: \_\_\_\_\_ Wetland size: \_\_\_\_\_ha Associated Watercourse: \_\_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog \_

19.Floating leaved SM \_\_\_\_ 20.Rooted floating leaved SM \_\_\_\_\_ 21.Non-vegetated SM \_\_\_\_\_ 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow \_\_\_\_ 25.Ungrazed M 26.Sedge M \_ 27.Sapling shrub swamp \_\_\_\_\_ 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog \_\_ 34.Shrubby B X 35.Open B \_\_\_\_\_

3.Seasonally flooded

<u>Water Depth:</u> 1.0-5 cm \_<u>'</u>✓\_\_

2.5-20 cm \_\_\_\_\_ 3.20-50 cm \_\_\_\_\_ 4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

4 Soil 40t part Al

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above <u>\</u>
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u>×</u> 5.Deltaic <u></u>
Vegetation Types (%): 1.Deciduous trees /20 Pear Maple 2.Coniferous trees 550 - B. Server, Er, 144 3.Dead trees /20 4.Tall shrubs (1900 - Nearen HickChelerry 5.Low shrubs (1900 - Nearen HickChelerry 6.Dead shrubs - 7.Herbs 590 P:teler plant 8.Mosses 9.Narrow-leaved emergents - Prochamperen, 12 10.Broad-leaved emergents 11.Robust emergents 12.Free-floating plants 13.Floating plants (rooted) 14.Submerged plants 15. Other	Aleber, Vibirnun reclem, Swort gabe
Interspersion: 1.Minimal <u>K</u> 2.Low 3.Medium 4.High	
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies:	
Wildlife: (Observation/Signs/Reports) Rebit doupping 5.	

10.92.45

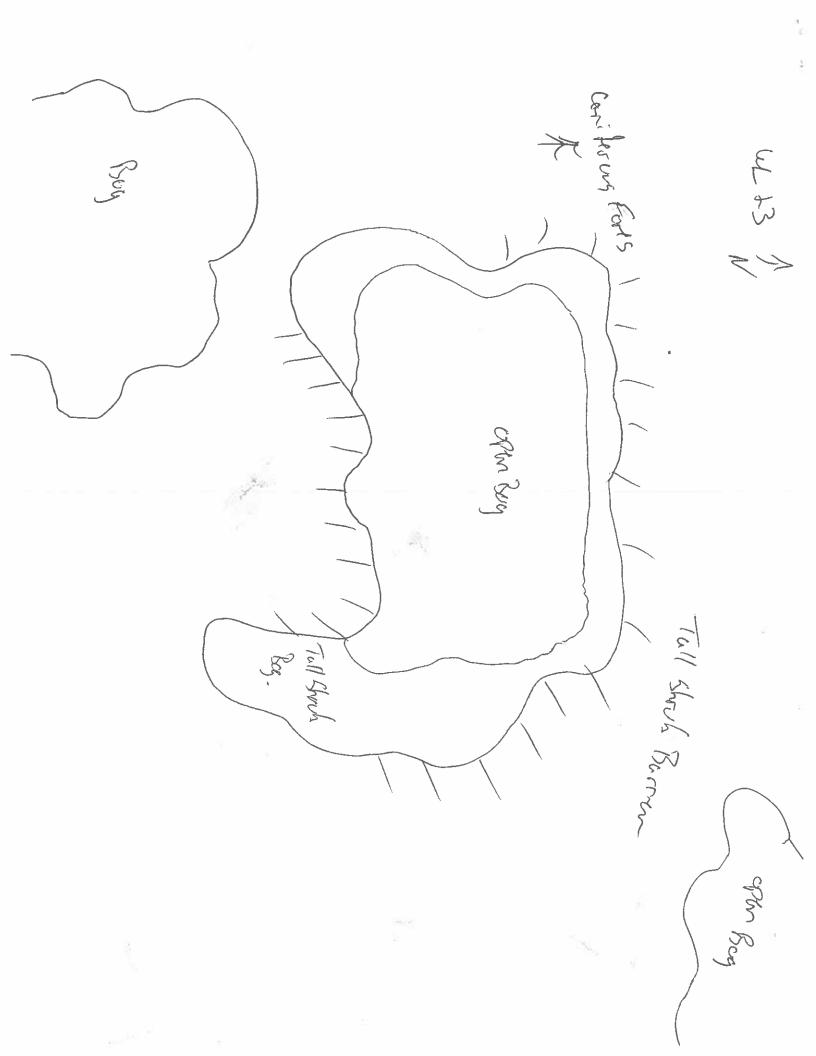
1

<u>Adjacent Wildlife habitat (%):</u> 1.Salt marsh 2.Forest 3.Dykelands	5.Beach 6.River 7. Other
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 9.Scientific Research 10.Trapping 12.Seasonal resident
Description: Such	
Disturbance: 1.Low 2.Moderate 3.High	
Description: <u>Roads and/or tracks:</u> 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident/X_
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species _K 3.Habitat of rare species _K	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
Description: Cladonia Stygia	porcent
Nataas	

Notes:

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Project/Site:C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	Municipality/C	ounty: 176-12	Sherringh Sampling Date: Tely?
Applicant/Owner: UNIC W		/	Sampling Point: UL 23-4pl
Investigator(s): Same ten Their Page	mch Affi	liation: AM	
Landform (hillslope, terrace, etc.):		Local relief	(concave, convex, none): Aummere lon
Slope (%): Lat: (14447	Lor		143 Datum: NAN 83
oil Map Unit Name/Type: Rec. Climel			etland Type: <u>SC/C</u>
re climatic / hydrologic conditions on the site typical for t	his time of year?		
Are Vegetation, Soil, or Hydrology		-	"Normal Circumstances" present? Yes No
ve Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
			ocations, transects, important features, etc
		Is the Sampled	Area
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No	within a Wetla	-
	No	If yes, optional l	Wetland Site ID:
Remarks: (Explain alternative procedures here or in a s		in yoo, optional	
EGETATION – Use scientific names of plant			
Tree Stratum (Plot size:(C2)		ominant Indicator	Dominance Test worksheet:
1. Leaving lavaeine			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			
3			Total Number of Dominant Species Across All Strata:
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (200) (A/B
	=T	otal Cover	
Sapling/Shrub Stratum (Plot size:)	·	FACK	Prevalence Index worksheet:
1. Rhedadianon conactionse 2. Gran Washerica harcetter		- FAC	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
"Turces Static Shaltices		Z GALU/	FACW species $25$ x 2 = $20$
A. Wemission thus nucling		/ FAC	FAC species $35$ x3= $05$
Liberry Ardens		EAL	FACU species x4 =
	45 =1		UPL species x 5 =
Herb Stratum (Plot size:)			Column Totals: 20 C2 (A) (C 5 (B)
. Scippus caspitesus		× CAL	
Ryachesperce alle			Prevalence Index = $B/A = 1.5$
Scraein purpres		<u> VEL</u>	Hydrophytic Vegetation Indicators:
·			Rapid Test for Hydrophytic Vegetation
			Dominance Test is >50%     Frevalence Index is ≤3.0 <sup>1</sup>
·			<ul> <li>Prevalence index is \$3.0</li> <li>Morphological Adaptations<sup>1</sup> (Provide supporting</li> </ul>
•			data in Remarks or on a separate sheet)
)			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0			
Voody Vine Stratum         (Plot size:)	т Горија Такариј Такариј Такариј Такариј Такариј Такариј Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такарија Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такариј Такори Такори Такор Такор Такори Такор Такор Такори Такор Такор Такор Та	otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
· · · · · · · · · · · · · · · · · · ·			Hydrophytic
			Vegetation
2			Present? Yes No

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Sampling Point:	WL	23-41
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<u>0-40</u>	Color (moist)%Type1	LUG IEAU	ire Remarks
			ne meet
	, RM=Reduced Matrix, CS=Covered or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	c	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)		5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)		ron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)		Red Parent Material (TF2)
Depleted Below Dark Surface (A11			
	· _ · · ·	_ (	Other (Explain in Remarks)
Thick Dark Surface (A12) Soudy Mucky Minoral (S1)	Depleted Dark Surface (F7)		
Sandy Mucky Mineral (S1)	Redox Depressions (F8)		
Sandy Gleyed Matrix (S4)			
<sup>3</sup> Indicators of hydrophytic vegetation ar	nd wetland hydrology must be present, unless o	disturbed or proble	ematic.
Restrictive Layer (if observed):			• • •
Туре:			
		1 In column	Soil Present? Yes No
Depth (inches):		Hyaric	c Soil Present? Yes <u> </u>
Remarks:			
		8	
YDROLOGY			
YDROLOGY Wetland Hydrology Indicators:		Se	condary Indicators (minimum of two requi
Wetland Hydrology Indicators:	required: check all that apply)	Se	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r		<u>Se</u>	Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1)	Water-Stained Leaves (B9)	<u>Se</u>	Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<u>Se</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9)	<u>Se</u>	Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<u>Se</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> </ul>		Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living		Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C4 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C4 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfate	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks) ace (B8)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C4 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches):     No Depth (inches):	g Roots (C3)	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches): No Depth (inches): No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfated Observations:         Surface Water Present?         Yes         Saturation Present?         Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches): No Depth (inches): No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches): No Depth (inches): No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfated Observations:         Surface Water Present?         Yes         Saturation Present?         Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches): No Depth (inches): No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is r         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfated Observations:         Surface Water Present?         Yes         Saturation Present?         Yes	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) ry (B7)     Other (Explain in Remarks) ace (B8)     No Depth (inches): No Depth (inches): No Depth (inches):	g Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)

WETLAND DE		ATA FORM -	NOVA SCOTIA
Project/Site: Reek Part	_ Municipality/Cou	nty: Gurys	Sampling Date: <u>Acg. 18/14</u> Sampling Point: <u>463</u> -001
Applicant/Owner:			Sampling Point: <u>4.23</u> -cpl
Investigator(s): S. Biar H-7		· · · ·	
Landform (hillslope, terrace, etc.): T-LON. 1-4	8	Local relief (	concave, convex, none): <u>Hommo: Ky</u>
	Long:	50174	12 Datum: AIAD 83
Soil Map Unit Name/Type:		Wet	tland Type: UPlinet
Are climatic / hydrologic conditions on the site typical for th	is time of year? Y	′es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "I	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problem	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes         Hydric Soil Present?       Yes         Wetland Hydrology Present?       Yes	No		Area           d?         Yes No           Vetland Site ID:
Remarks: (Explain alternative procedures here or in a se			
	,		
VEGETATION – Use scientific names of plants	5.		
Tree Stratum (Plot size: _/O)		ninant Indicator cies? Status	Dominance Test worksheet:
1. Picke merime		Clest Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 Larix laracine	7	- Etc	
3			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 500)	= To	al Cover	Prevalence Index worksheet:
1. Encylugacia baccatter	25	<u> ÉAC</u>	Total % Cover of: Multiply by:
2. Kelmia conglist: felica	5	ÈAC	OBL species x 1 =
3. Alous Crispus		- Euter	FACW species $x_2 = 4$
4. Vibina Duhum		<u> </u>	FAC species $105 \times 3 = 36$
5. Romez pur this Murinmenter	$\frac{3}{44} = Tot$	<u> </u>	FACU species x4 = UPL species x5 =
Herb Stratum (Plot size:)	<u></u>	al Cover	Column Totals: $102$ (A) $3+7$ (B)
1. Ralmin engest: felia	<u> </u>	EtC.	-
2. Arrelfasching berteprisia	200-	FAL	Prevalence Index = B/A =
3. Isimitalis hestelis	190	<u> </u>	Hydrophytic Vegetation Indicators:
4. Groutheoic Procentations		- FAC	Rapid Test for Hydrophytic Vegetation           Cominance Test is >50%
5. Earpebrin 'n'yr.	_ <u>50%</u>	< FAL	Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u>() (</u> = To		be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
Pomoto: (lookudo photo sumboro trans a second		al Cover	
Remarks: (Include photo numbers here or on a separate	sneet.)		

*	
Sampling Point: <u>WLJ3-</u> UP	(

Generation Color (moist)		Redox Features Color (moist) % Type	Log <sup>2</sup> To			Pomorico	
<u>unchest ry</u> <u>Color (moist)</u>				<u>kture</u>	= \ =	Remarks	-
2-5				<u>nic</u>	Dert	1	
	U						
					-		
				<u> </u>			
<sup>1</sup> Type: C=Concentration D=E	enletion RM=Rec	Juced Matrix, CS=Covered or Coa	ted Sand Grains	21 oca	tion: PI =F	ore Lining, M	l=Matrix
Hydric Soil Indicators:						natic Hydric	
Histosol (A1)		_ Sandy Redox (S5)			rairie Redo	÷	
	-					. ,	
Histic Epipedon (A2)	-	Polyvalue Below Surface (S8)			-	or Peat (S3)	
Black Histic (A3)	-	_ Thin Dark Surface (S9)	—	-	-	asses (F12)	
Hydrogen Sulfide (A4)	-	_ Loamy Gleyed Matrix (F2)	·	÷	•	in Soils (F19)	I
Stratified Layers (A5)	-	_ Depleted Matrix (F3)		-	ent Materia		
Depleted Below Dark Sur		Redox Dark Surface (F6)	_	Other (E	explain in F	temarks)	
Thick Dark Surface (A12)		Depleted Dark Surface (F7) <sup>-</sup>					
Sandy Mucky Mineral (S1		Redox Depressions (F8)					
Sandy Gleyed Matrix (S4)	)		63				
<sup>3</sup> Indicators of hydrophytic veg	etation and wetlan	d hydrology must be present, unle	ess disturbed or pro	blematic.			
Restrictive Layer (if observe	ed):						
Type: Keeveek							
		-				Vee	kl s
Depth (inches): 5C	~~	-	Нус	lric Soil F	Present?	Yes	No 🤳
	m	-	Нус	lric Soil f	Present?	Yes	No 🥁
Depth (inches): <u>5</u> C Remarks:	<u>م</u>	-	Нус	Iric Soil F	Present?	Yes	No
Depth (inches): 5 C Remarks:			I			Yes	
Depth (inches): 5 C Remarks: IYDROLOGY Wetland Hydrology Indicato	rs:	- 	I	Secondar		s (minimum o	
Depth (inches): 5 C Remarks: iYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum)	rs:	10	I	Secondar	y Indicator	<u>s (minimum o</u> acks (B6)	
Depth (inches):C Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum of the second seco	rs:	Water-Stained Leaves (B9)	I	Secondar Surfa Drain	y Indicator ce Soil Cra age Patter	<u>s (minimum o</u> acks (B6) ns (B10)	
Depth (inches):C Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum ) Surface Water (A1) High Water Table (A2)	rs:	Water-Stained Leaves (B9) Aquatic Fauna (B13)	I	Secondar Surfa Drain Moss	y Indicator ce Soil Cra age Patter Trim Line	<u>s (minimum o</u> acks (B6) ns (B10) s (B16)	f two require
Depth (inches):C Remarks: <b>{YDROLOGY</b> <b>Wetland Hydrology Indicato</b> <u>Primary Indicators (minimum (</u> Surface Water (A1) High Water Table (A2) Saturation (A3)	rs:	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> </ul>		Secondar Surfa Drain Moss Dry-S	<u>y Indicator</u> ce Soil Cra age Patter : Trim Line: Season Wa	<u>s (minimum o</u> acks (B6) ns (B10) s (B16) ter Table (C2	f two require
Depth (inches):C Remarks: <b>{YDROLOGY</b> <b>Wetland Hydrology Indicato</b> <u>Primary Indicators (minimum of the second </u>	rs:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1	)	Secondar Surfa Drain Moss Dry-S Satu	<u>y Indicator</u> ce Soil Cra age Patter Trim Line Season Wa ation Visib	<u>s (minimum o</u> acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir	<u>f two require</u> ) nagery (C9)
Depth (inches):C Remarks: <b>{YDROLOGY</b> <b>Wetland Hydrology Indicato</b> <u>Primary Indicators (minimum (</u> Surface Water (A1) High Water Table (A2) Saturation (A3)	rs:	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> </ul>	)	Secondar Surfa Drain Moss Dry-S Satu	<u>y Indicator</u> ce Soil Cra age Patter Trim Line Season Wa ation Visib	<u>s (minimum o</u> acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir	<u>f two require</u> ) nagery (C9)
Depth (inches):C Remarks: <b>{YDROLOGY</b> <b>Wetland Hydrology Indicato</b> <u>Primary Indicators (minimum of the second </u>	rs:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1	) iving Roots (C3)	Secondar Surfa Drain Moss Dry-S Satu Stunt	<u>y Indicator</u> ce Soil Cra age Patter Trim Line Season Wa ation Visib	<u>s (minimum o</u> acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ssed Plants (I	<u>f two require</u> ) nagery (C9)
Depth (inches):C Remarks: <b>iYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Sediment Deposits (B2)	rs:	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I	) Living Roots (C3) (C4)	Secondar Surfa Drain Moss Dry-5 Saturi Sturi Geor	y Indicator ce Soil Cra age Patter Frim Line Season Wa ration Visib ed or Stres	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ssed Plants (I sition (D2)	<u>f two require</u> ) nagery (C9)
Depth (inches):C Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum ( Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	rs:	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1</li> <li>Oxidized Rhizospheres on I</li> <li>Presence of Reduced Iron (Recent Iron Reduction in Times)</li> </ul>	) Living Roots (C3) (C4)	Secondar Surfa Drain Moss Noss Dry-S Stunt Stunt Geor Shall	<u>y Indicator</u> ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition Aerial Ir sition (D2) d (D3)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):C Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum ( Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	rs: of one is required:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on I Presence of Reduced Iron ( Recent Iron Reduction in Ti Thin Muck Surface (C7)	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satun Stunt Stunt Seor Shall Micro	y Indicator ce Soil Cra age Patter Trim Line Season Wa ration Visib ed or Stres norphic Po ow Aquitar stopograph	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
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Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum of 	rs: of one is required; ial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on I Presence of Reduced Iron ( Recent Iron Reduction in Ti Thin Muck Surface (C7)	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satun Stunt Stunt Seor Shall Micro	y Indicator ce Soil Cra age Patter Trim Line Season Wa ration Visib ed or Stres norphic Po ow Aquitar stopograph	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):	rs: of one is required; ial Imagery (B7) :ave Surface (B8)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1</li> <li>Oxidized Rhizospheres on I</li> <li>Presence of Reduced Iron (</li> <li>Recent Iron Reduction in Ti</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	) _iving Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satun Stunt Stunt Seor Shall Micro	y Indicator ce Soil Cra age Patter Trim Line Season Wa ration Visib ed or Stres norphic Po ow Aquitar stopograph	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum of 	rs: of one is required; ial Imagery (B7) :ave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on I Presence of Reduced Iron ( Recent Iron Reduction in Ti Thin Muck Surface (C7)	) _iving Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satun Stunt Stunt Geor Shall Micro	y Indicator ce Soil Cra age Patter Trim Line Season Wa ration Visib ed or Stres norphic Po ow Aquitar stopograph	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1</li> <li>Oxidized Rhizospheres on I</li> <li>Presence of Reduced Iron (</li> <li>Recent Iron Reduction in Ti</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satun Stunt Stunt Geor Shall Micro	y Indicator ce Soil Cra age Patter Trim Line Season Wa ration Visib ed or Stres norphic Po ow Aquitar stopograph	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches): Remarks: <b>AYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum 	rs: of one is required; ial Imagery (B7) cave Surface (B8) Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satur Sturt Geor Shall Micro	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches): Remarks: <b>EXAMPLANCE OF Second S</b>	rs: of one is required; ial Imagery (B7) cave Surface (B8) Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Satur Sturt Geor Shall Micro	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir ased Plants (I sition (D2) d (D3) ic Relief (D4)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Saturi Sturi Sturi Geor Shall Micro FAC-	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Saturi Sturi Sturi Geor Shall Micro FAC-	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	<u>f two require</u> ) nagery (C9) D1)
Depth (inches):	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Saturi Sturi Sturi Geor Shall Micro FAC-	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	f two require ) nagery (C9) D1)
Depth (inches):	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Saturi Sturi Sturi Geor Shall Micro FAC-	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	f two require ) nagery (C9) D1)
Depth (inches): Remarks: <b>AYDROLOGY</b> Wetland Hydrology Indicato Primary Indicators (minimum ( 	rs: of one is required: ial Imagery (B7) :ave Surface (B8) Yes No Yes No Yes No	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1     Oxidized Rhizospheres on I     Presence of Reduced Iron (     Recent Iron Reduction in Ti     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	) Living Roots (C3) (C4) Iled Soils (C6)	Secondar Surfa Drain Moss Dry-S Saturi Sturi Sturi Geor Shall Micro FAC-	y Indicator ice Soil Cra age Patter Trim Line: Season Wa ation Visib ed or Stres norphic Po ow Aquitar otopograph Neutral Te	s (minimum o acks (B6) ns (B10) s (B16) ter Table (C2 le on Aerial Ir sition (D2) d (D3) ic Relief (D4) st (D5)	f two require ) nagery (C9) D1)

## Freshwater Wetland Data Sheet: <u>whe 24</u>

Date: <u>Acc. (E/14</u> Investigato(s): Scott Burley/\_\_\_\_ Weather: <u>Sun/Clac</u>// Shuburg

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_ 2.Bog(BO) \_X\_\_ 3.Fen (FE) \_\_\_\_

Wetland Class:

- 1.Open water \_\_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_
- 4.Seasonally flooded flats \_\_\_\_
- Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh \_\_\_\_\_ 7.Non-vegetated DM \_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_ 18.Broad leaved SM

<u>Water Regime Indicator:</u> 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_\_

Water Depth: 1.0-5 cm \_\_\_\_\_ 2.5-20 cm \_\_\_\_\_ 3.20-50 cm Wetland Form<sup>1</sup>:: Wetland size: <u>ha</u> Associated Watercourse: \_\_\_\_\_

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW)

5.Meadow \_\_\_\_\_ 6.Shrub swamp \_\_\_\_\_ 7.Wooded swamp \_\_\_\_\_ 8.Bog X

19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF 24.Grazed meadow \_\_\_\_\_ 25.Ungrazed M \_\_\_\_\_ 26.Sedge M 27.Sapling shrub swamp 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS 33.Wooded bog X 34.Shrubby B 🔀 35.Open B \_<u>K</u>

3.Seasonally flooded

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment	3.Ducks Unlimited Impoundment 4. None of the above _ <u>X</u>
Percent Vegetation Cover: 1.> 95% 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	5.26-75% in patches 6. 5-25% in peripheral band 7. 5-25% in patches 8.< 5%
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated <u>A</u> 5.Deltaic
Vegetation Types (%): 1. Deciduous trees - 200 Red Muphe 2. Coniferous trees - 200 So Lond, & Spruce 3. Dead trees - 190	Fir
3. Dead trees - 150 4. Tall shrubs - 250 - Artigner Hick felder 5. Low shrubs - Jun; per Lib felder 6. Dead shrubs 7. Herbs - \$1500 - \$; toper plent Rake A	Achedora, Wild Raisin, Kalonia - Villiaivan microceropan Apte, Bunch bern
6.Dead shrubs	Ess, Eriopheren, Certi exilis,
12.Free-floating plants	
Interspersion: 1.Minimal <u>K</u> 2.Low 3.Medi	um 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies:	
None	
<u>Wildlife:</u> (Observation/Signs/Reports)	
PLSGerines	
Publit Droppings	

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Page 2

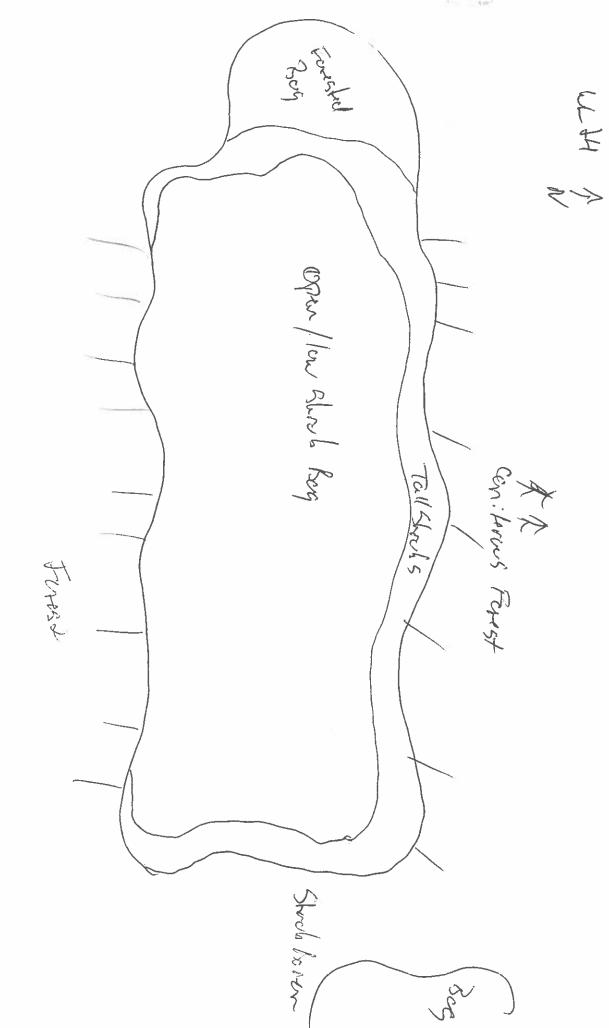
Adjacent Wildlife habitat (%):	
1.Salt marsh	5.Beach
2.Forest	6.River
3.Dykelands	7. Other
4.Mudflats	
Description: 60% Forest 30%	Shink Berran, 10 20 4 edleral
Surrounding Land Use %:	1 and wiend.
1 Agriculture	7.Residential
2.Forestry	8.Waste Disposal
3 Recreation	9.Scientific Research
4.Industrial	10.Trapping
5.Urban development	11.Education
6.Transportation	12.Seasonal resident
Description:	
Disturbance: 1.Low K 2.Moderate 3.High	
Description:	
Roads and/or tracks:	
1.Private road adjacent	4.DOT road within
2.DOT road adjacent	5.Vehicle tracks
3.Private road within	6.Other <u> </u>
Description: Survey cut line th	and hattenal
Evision Hone of Mallouder	may a very cores
Existing Uses of Wetlands: 1.Economic use (e.g. farming)	
2.Recreational activities	4.Education & public awareness
3.Aesthetics	5. None evident
Potential Threats:	
Special Features:	
1.Rare wetland type	4.Nesting site for colonial water birds
2.Rare animal or plant species	5.Migration stop-over site
3.Habitat of rare species _X	6. None evident
Description: Claelonia Stygia	
Notes:	

i.e

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1.10



	ATA FORM - NOVA SCOTIA
Project/Site: <u>13/c.e.k. Point</u> Municipality/Coun Applicant/Owner: <u>Veltern</u>	ty: Gruy Sharrigh Sampling Date:
Applicant/Owner: Velter	Sampling Point: 424-ig1
Investigator(s):	on:AM // c
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Heronover 1.17
Slope (%): Lat: Long: Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long:Long: _	SULLAD Datum: NAD 83
Soil Map Unit Name/Type: Recklind	Wetland Type: Sco
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	s No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	ed? Are "Normal Circumstances" present? Yes 📈 No
Are Vegetation, Soil, or Hydrology naturally problemat	ic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
VEGETATION – Use scientific names of plants.	
	nant Indicator Dominance Test worksheet:
Tree Stratum (Plot size: 10.0. ) <u>% Cover</u> Spec	
1. Larit Laracina 5	
2. Diete nerital	- FRILA Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	Prevalence Index worksheet:
1. Chissen Auclean 5	
2. Cheniper thes prisanates 15	$\underline{F_{HC}}$ OBL species $\underline{LG}$ x1 = $\underline{LG}$
3. Maglisate in barca the 15	FACW species x2=
4. Myrica Oraliz	$FAC$ species $4 + x^3 = (41)$
5. $\underline{Milling}$	FACU species x 4 = I Cover UPL species x 5 =
Herb Stratum (Plot size:)	I Cover UPL species $x5 =$ Column Totals: $\mu = \lambda$ (A) $\mu = \lambda$ (B)
1. Sciences Caugostations 30 /	
2. Hiter D Sarae we put perter 15 _	$\underline{OBL}  \text{Prevalence Index} = B/A = \underline{2 \cdot 0}$
3. Aster Aladerelis 2	ORL Hydrophytic Vegetation Indicators:
4. Lection goveralling com 2	Rapid Test for Hydrophytic Vegetation
5. Ericheren (teun) virisiend	Dominance Test is >50% FWCPrevalence Index is ≤3.01
	Mombological Adaptations <sup>1</sup> (Provide supporting
8	data in Remarks or on a separate sheet)
9	Problematic Hydrophytic Vegetation' (Evaluin)
10	
Woody Vine Stratum (Plot size:)	I Cover <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	Hydrophytic
2	Vegetation
	I Cover Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	
2	
51	

17

Profile Description: (Describe to the	depth needed to document the indicator or conf	firm the absence of indicators.)
Depth Matrix	Redox Features	<u> </u>
	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	
2-202		Orgnic Litent
0-30 107R/SZ 10	<u></u>	Lowny Sonal
	· · ·	
<u> </u>		····
'Type: C=Concentration, D=Depletion, Hydric Soil Indicators:	RM=Reduced Matrix, CS=Covered or Coated Sand	
		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Hydrogen Sulfide (A4)	Thin Dark Surface (S9) Loamy Gleyed Matrix (F2)	Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Parent Material (TF2)
Stratilieu Layers (A3) Depleted Below Dark Surface (A11		Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	
Sandy Gleyed Matrix (S4)		
Restrictive Layer (if observed):	d wetland hydrology must be present, unless distur	
Resulctive Layer (il observed).		
_		
Туре:	······	
Type: Depth (inches):	······································	Hydric Soil Present? Yes No
	······································	Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes <u>No</u> No
Depth (inches): Remarks: IYDROLOGY		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY		
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:	equired; check all that apply)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r	required: check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2)	equired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3)	<u>required; check all that apply)</u> Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two required 
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	equired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required 
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Secondary Indicators (minimum of two required
Depth (inches): Remarks: Wetland Hydrology Indicators: Primary Indicators (minimum of one is r Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	equired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) ry (B7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required
Depth (inches):	Prequired: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  ry (B7) Other (Explain in Remarks) ace (B8)  Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches):	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  (B7) Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  ry (B7) Other (Explain in Remarks) ace (B8)  No Depth (inches): Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  (B7) Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  (B7) Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  (B7) Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required
Depth (inches): Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is r 	required: check all that apply)   Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)  (B7) Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two required

CANAL T

			- NUVA SCOTIA
Project/Site: Black Prosint	Municipality/Cou	inty: Gran	Sherring L Sampling Date: Aug. 18/1
Applicant/Owner:			Sampling Point: LL 14- LPI
	Affilia	ition: AMU	<u><u></u></u>
Landform (hillslope, terrace, etc.):	·	Local relief	(concave, convex, none): Hemminue 10:7
Slope (%): Lat:	Long:	Scold.	213 Datum: 114183
Soil Map Unit Name/Type: Rec Clange		We	tland Type:
Are climatic / hydrologic conditions on the site typical for this	s time of year? Y	/es No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s	ignificantly distur	bed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	aturally problem	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	howing sam	pling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	0	Is the Sampled	
Hydric Soil Present? Yes N		within a Wetlan	nd? Yes No /
Wetland Hydrology Present? Yes N		If yes, optional V	Vetland Site ID:
Remarks: (Explain alternative procedures here or in a sep	parate report.)		
VEGETATION - Use scientific names of plants.			
Tree Stratum (Plot size: 102)		ninant Indicator	Dominance Test worksheet:
	<u>% Cover</u> Spe		Number of Dominant Species
2. Picto marina		Z AL Z AL	That Are OBL, FACW, or FAC: (A)
3. Betile 24 Dari Form	<u> </u>	Att.	Total Number of Dominant Cr. (B)
4.			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
<u> </u>	17 = Tot	al Cover	
Sapling/Shrub Stratum (Plot size:)	-	EAC	Prevalence Index worksheet:
1 (chistorn number	<u> </u>	<u>rhc</u>	Total % Cover of:         Multiply by:           OBL species
3 malesias bereate	302	- FAC	FACW species $7$ $x_2 = 14$
4 Photinic melonoceuras	· <u> </u>	- Aru	FAC species // ( x3 = 33 >
5. Sheelerd-Indon Considering	300	EAC	FACU species x4 = 8
Namepentles overprinter 12	76 = Tot	al Cover	UPL species x 5 =
Herb Stratum (Plot size:)	-	Che	Column Totals: 12 (A) 355 (B)
1. Certus consolting. 9	<u> </u>		Prevalence Index = B/A =
2. Calmin angustifelia. 3. Macinium organitifelium	·	<u> </u>	Hydrophytic Vegetation Indicators:
4. Goul Merin precimpting		FAC	Rapid Test for Hydrophytic Vegetation
5.			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting
8			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	<u>22</u> = Tot	al Cover	be present, unless disturbed or problematic.
1)			Hudenhutia
2	·		Hydrophytic Vegetation
	= Tot	al Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s			I
	·		

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

Sampling Point:	let	24	-PI
Sampling Form.	LAN.	gr r	_~///

Depth Matri (inches) Color (moist		<u>     Redox Features     Color (moist) % Ty</u>		xture	D	emarks
a t				<u>ên î</u>	\ / /	
		·······				
						=
1				·		
Hydric Soil Indicators:	Depletion, RM=F	Reduced Matrix, CS=Covered or C				Lining, M≕Matrix. : Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Redox (S5)	inc		rairie Redox (A	•
Histosor (A1) Histic Epipedon (A2)		Polyvalue Below Surface (S			ucky Peat or Pe	
Black Histic (A3)		Thin Dark Surface (S9)	·		nganese Masse	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmo	nt Floodplain Se	oils (F19)
Stratified Layers (A5)		Depleted Matrix (F3)		-	rent Material (T	
Depleted Below Dark Sur Thield Dark Surface (A12)		Redox Dark Surface (F6)		Other (I	Explain in Rema	irks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1		<ul> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> </ul>				
Sandy Gleyed Matrix (S4	,					
3) a dia ata an af huadan ata ata	-4-45	and fearback as a set to a set a				
Restrictive Layer (if observe		and hydrology must be present, u	iniess disturbed or pro	plematic.		<u> </u>
Type Carlor Market						
Type: <u>All Fulk</u>	~	_	Hvd	ric Soil I	Present? Yes	No I
Depth (inches):///	m		Hyd	ric Soil I	Present? Yes	No <u>_</u> _
	<u>~</u>		Hyd	lric Soil I	Present? Yes	s No <u>_</u> _
Depth (inches):///	~		Hyd	ric Soil I	Present? Yes	: No <u>ر</u>
Depth (inches):///	<u>~_</u>		Hyd	lric Soil I	Present? Yes	8 <u></u> No <u>u</u>
Depth (inches):/(/ ; Remarks:	<u>~</u>		Hyd	ric Soil I	Present? Yes	No <u>.</u>
Depth (inches): <u>IV (</u> Remarks:						
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicato	15:	d: check all that apply)		Secondar	y Indicators (mi	nimum of two requ
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum of	15:		2	Secondar	y Indicators (mi ce Soil Cracks	nimum of two requ (B6)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum of 	rs: of one is required	Water-Stained Leaves (B	9)	Secondar	v Indicators (mi ce Soil Cracks age Patterns (B	nimum o <u>f two reau</u> (B6) (10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum of	rs: of one is required		9)	Secondar Surfa Drain Moss	y Indicators (mi ce Soil Cracks	nimum of two reau (B6) (10) 6)
Depth (inches):	rs: of one is required	Water-Stained Leaves (B Aquatic Fauna (B13)	 	Secondar Surfa Drain Moss Dry-S	<u>y Indicators (mi</u> ce Soil Cracks age Patterns (B Trim Lines (B1 Season Water T	nimum of two requ (B6) (10) 6) able (C2)
Depth (inches):	rs: of one is required	Water-Stained Leaves (B Aquatic Fauna (B13) Marl Deposits (B15)	9)	Secondar Surfa Drain Moss Dry-S Satur	<u>y Indicators (mi</u> ce Soil Cracks age Patterns (B Trim Lines (B1 Season Water T	nimum of two requ (B6) i10) 6) able (C2) Aerial Imagery (C
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	rs: of one is required	Water-Stained Leaves (B Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C	9) 	Secondar Surfa Drain Moss Dry-S Satur Stunt	<u>y Indicators (mi</u> ce Soil Cracks age Patterns (B Trim Lines (B1 Season Water T ation Visible on	nimum of two requ (B6) i10) 6) able (C2) Aerial Imagery (C Plants (D1)
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## Freshwater Wetland Data Sheet: WLAC

Date: Her De/14 Investigator(s): Scott Burley/

Weather: <u>Sunc</u>

Wetland Type: 1.Aquatic bed/unconsolidated bottom (AB) \_\_\_\_ 2.Bog(BO) 3.Fen (FE) 🖌

- Wetland Class: 1.Open water \_\_\_\_ 2.Deep marsh 3.Shallow marsh 4.Seasonally flooded flats \_\_\_\_\_
- Wetland Subclass: 1.Vegetated open water \_\_\_\_ 2.Non-vegetated OW 3.Floating leaved OW \_\_\_\_ 4 Rooted floating leaved OW 5.Dead woody OW \_\_\_\_ 6.Vegetated deep marsh \_\_\_\_ 7.Non-vegetated DM \_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM \_\_\_\_\_ 14.Broad-leaved DM 15.Dead woody shallow marsh 16.Robust SM 17.Narrow leaved SM 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded \_\_\_\_ 2.Saturated \_X\_

32.Evergreen WS

33.Wooded bog \_\_\_\_\_ 34.Shrubby B

35.Open	в
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3.Seasonally flooded \_\_\_\_\_

Water Depth: 1.0-5 cm \_\_\_\_

2.5-20 cm 3.20-50 cm

4.50-100 cm \_\_\_\_\_ 5.>100 cm

Note: 1. Canadian Wetland Classification System (2nd Edition)

Wetland Form<sup>1</sup>:: Wetland size: \_\_\_\_\_ ha Associated Watercourse: 4.Emergent wetland (EW) 5.Shrub wetland (SB) 6.Forested wetland (FW) 5.Meadow \_\_\_\_\_

6.Shrub swamp 7.Wooded swamp 8.Bog\_ Fanx 19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22. Emergent seasonally flooded flats 23.Shrubby SFF \_\_\_\_ 24.Grazed meadow 25.Ungrazed M 26.Sedge M 🖌 27.Sapling shrub swamp 28.Bushy SS 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp

Impounded Wetland Type:         1.Beaver Pond         2.Man-made Impoundment         Percent Vegetation Cover:         1.> 95%         2.76-95% in peripheral band         3.76-96% in patches         4.26-75% in peripheral band	<ul> <li>3.Ducks Unlimited Impoundment</li> <li>4. None of the above</li> <li>5.26-75% in patches</li> <li>6. 5-25% in peripheral band</li> <li>7. 5-25% in patches</li> <li>8.&lt; 5%</li> </ul>
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
10.Broad-leaved emergents - 75 / 6 2.F.5         11.Robust emergents	os hert, Cinnum Forn Celemagrostist, Sciences; Sciences
Interspersion: 1.Minimal <u>X</u> 2.Low <u>3</u> .Mediu <u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
Hydrological Classification: 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Une Stesoner/ inbut C Sauth was a <u>Wildlife:</u> (Observation/Signs/Reports) Der Aracks/Scart PLSSering	t Sicle.

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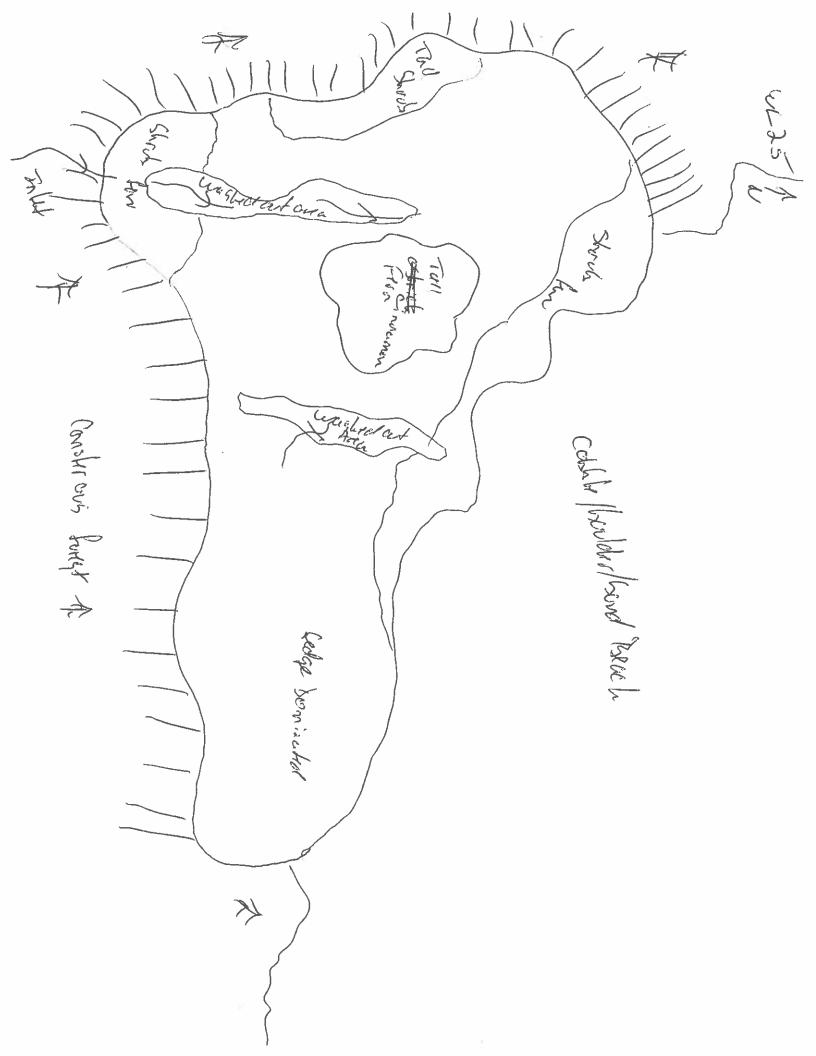
Page 2

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest 3.Dykelands 4.Mudflats	5.Beach 6.River 7. Other
Description: 50%, Further /SCM	Blench
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: Ladared	
Disturbance: 1.Low <u>×</u> 2.Moderate 3.High	
Description: ATU tracks urvene	1/though without
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within Description:	4.DOT road within 5.Vehicle tracks 6.Other
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident_ <u>`</u>
Potential Threats:	
<u>Special Features:</u> 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species _X_	4.Nesting site for colonial water birds 5.Migration stop-over site 6. None evident
Description:	

Notes:

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WETLAND DELINEATION I	DATA FORM – NOVA SCOTIA
Project/Site: <u>Black Point</u> Municipality/Cou	inty: Our sherry Sampling Date: Aug. 20114
Applicant/Owner:	Sampling Point: ( 1/25- ندر ۲۸
Investigator(s): 6 Bearly Affilia	ation: PARC
Landform (hillslope, terrace, etc.): Hill Scot	Local relief (concave, convex, none): Aron march 7
Slope (%): 3 Lat: 645864 Long	
Soil Map Unit Name/Type:	Wetland Type: Een
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distu	
Are Vegetation, Soil, or Hydrology naturally problem	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
VEGETATION – Use scientific names of plants.	
	ninant Indicator Dominance Test worksheet:
1. April 5 ballso men 5	Industry
2. Picke Blanka 10	FAL
3. Actor rehain 5	FAC Total Number of Dominant 10 (B)
4	Percent of Dominant Species
5	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	tal Cover  Prevalence Index worksheet:
1. Alons Conserves CE isoer 5	-A(/ Total % Cover of: Multiply by:
2. Lulogia incusti derlin Zo	$ \begin{array}{c} \hline \hline$
3. Vilisavan in valuan 5	FAL FACW species $Z_{C}$ x2 = $40$
4. Annie Portigin on Hurscente 10	E FAC species $55$ x3 = 165
5	FACU species x4 =
<u>Цел</u> = то	tal Cover UPL species x 5 =
<u>Herb Stratum</u> (Plot size: $1 \text{ g}$ )	Column Totals: $\underline{54}$ (A) $\underline{333}$ (B)
2 Ericologua Evisines 10 -	$\frac{1}{2} \frac{1}{2} \frac{1}$
3. Rapples and alle	<u>ORC</u> Hydrophytic Vegetation Indicators:
4. Defer Alpasseling 5	CRI     Rapid Test for Hydrophytic Vegetation
5. Lucia van Mium Curspan 5	Edu Dominance Test is >50%
6. Laccinium pricescon +7 Curing )	Prevalence Index is ≤3.01
T. Jinn rich "Afferdals 5	Fifti Morphological Adaptations <sup>1</sup> (Provide supporting
8	data in Remarks or on a separate sheet)
9	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
- ( )	tal Cover be present, unless disturbed or problematic.
1	Hydrophytic
2	Vegetation
	tal Cover Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	
	2

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

Sampling Point:	What-up

Depth	Matrix		Rec	ox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-30	= == =					•	aconic	flead	1 -	
								/		
		10								
	entration, D=Depl	etion, RM=Re	educed Matrix, C	CS=Covered	or Coated	Sand Gra			re Lining, M=	
Hydric Soil Ind							Indicators fo		•	DIIS":
Histosol (A <sup>-</sup>			Sandy Red	ox (S5)			Coast Pr			
Histic Epipe	edon (A2)		Polyvalue E	Below Surfac	e (S8)		5 cm Mu			
Black Histic	: (A3)		Thin Dark S	Surface (S9)			Iron-Man	ganese Mas	sses (F12)	
Hydrogen S	Sulfide (A4)		Loamy Gle	yed Matrix (F	-2)		Piedmon	t Floodplain	Soils (F19)	
Stratified La	ayers (A5)		Depleted M				Red Pare			
	elow Dark Surface	e (A11)	Redox Darl		6)		Other (E			
·	Surface (A12)			ark Surface	•					
	ky Mineral (S1)		Redox Dep							
	ed Matrix (S4)									
	drophytic vegetati	ion and wetla	nd hydrology m	ust be prese	nt, unless d	tisturbed o	or problematic.			
	er (if observed):									
Turner '/	ederch									
		•	_				Undeia Cail D		/m . /	No
Depth (inche	s): <u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	<b>^</b>	_				Hydric Soil P	resent?	res <u> </u>	No
		<u>م</u>	_				Hydric Soil P	resent? )	res <u> </u>	No
Depth (inche		^					Hydric Soil P	resent?	Yes <u></u>	No
Depth (inche		<u>^</u>					Hydric Soil P	resent? )	res <u></u>	No
Depth (inche		n					Hydric Soil P	resent?	res <u> </u>	No
Depth (inche Remarks:	s): <u>Cav</u>	^					Hydric Soil P	resent?	Yes <u></u>	No
Depth (inche	s): <u>Cav</u>	<u>^</u>					Hydric Soil P	resent?	Yes <u></u>	No
Depth (inche Remarks:	s): <u>Cav</u>	<u>^</u>							res	
Depth (inche Remarks: IYDROLOGI Wetland Hydro	s): <u>Car</u> ( logy Indicators:		: check all that	apply)			Secondary	/ Indicators (	(minimum of	
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate	s): <u>Cav</u> ( logy Indicators: prs (minimum of o						<u>Secondar</u>	/ Indicators ( ce Soil Crack	(minimum of ks (B6)	
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa	s): <u>Car</u> Iogy Indicators: ors (minimum of or ater (A1)		Water-S	tained Leave	· ·		<u>Secondar</u> Surfac Draina	/ Indicators ( ce Soil Crack	(minimum of ks (B6) s (B10)	
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water	s): <u>Car</u> logy Indicators: prs (minimum of or ater (A1) Table (A2)		Water-S Aquatic	tained Leave Fauna (B13)			<u>Secondar</u> Surfac Draina Moss	/ Indicators ( ce Soil Crack age Patterns Trim Lines (	( <u>minimum of</u> ks (B6) s (B10) (B16)	
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation	s): <u>Car</u> Ilogy Indicators: <u>prs (minimum of or</u> ater (A1) Table (A2) (A3)		Water-S Aquatic Marl De	tained Leave Fauna (B13) posits (B15)			<u>Secondan</u> Surfac Draina Moss Dry-S	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate	( <u>minimum of</u> ks (B6) s (B10) (B16) r Table (C2)	wo requ
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water	s): <u>Car</u> Ilogy Indicators: <u>prs (minimum of or</u> ater (A1) Table (A2) (A3)		Water-S Aquatic Marl De	tained Leave Fauna (B13)			<u>Secondan</u> Surfac Draina Moss Dry-S	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate	( <u>minimum of</u> ks (B6) s (B10) (B16)	wo requ
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark	s): <u>Car</u> Ilogy Indicators: <u>prs (minimum of or</u> ater (A1) Table (A2) (A3)		Water-S Aquatic Marl Dej Hydroge	tained Leave Fauna (B13) posits (B15)	ior (C1)	g Roots (0	Secondary Surfac Draina Moss Dry-S Satura	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible	( <u>minimum of</u> ks (B6) s (B10) (B16) r Table (C2)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark	s): Carlors: f logy Indicators: prs (minimum of or ater (A1) Table (A2) (A3) (A3) (A3) (B1) Deposits (B2)		Water-S Aquatic Marl Dej Hydroge	tained Leave Fauna (B13) posits (B15) n Sulfide Od I Rhizospher	lor (C1) res on Livin	g Roots (6	Secondary Surfac Draina Noss Dry-S Satura C3)Sturate	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D'	two requi
Depth (inche Remarks: <b>YDROLOG</b> <b>Wetland Hydro</b> Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos	s): Carlors: f logy Indicators: ors (minimum of or ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (B1) Deposits (B2) its (B3)		Water-S Aquatic Marl Dep Hydroge Oxidized Presenc	tained Leave Fauna (B13) posits (B15) in Sulfide Od I Rhizospher e of Reduce	lor (C1) res on Livin d Iron (C4)		Secondary Surfac Draina Noss Dry-S Satura C3)Stunta Georr	<u>/ Indicators (</u> ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stress orphic Posit	(minimum of ks (B6) s (B10) B16) r Table (C2) on Aerial Im- ed Plants (D2)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o	s): Carlor logy Indicators: ors (minimum of or ater (A1) Table (A2) (A3)		Water-S Aquatic Marl Dej Hydroge Oxidized Presenc Recent	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduce ron Reductio	lor (C1) res on Livin d Iron (C4) on in Tilled :		Secondary Surface Draina Moss Dry-S Satura Satura C3) Stunta Geom Shallo	v Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ad or Stress orphic Posit	(minimum of ks (B6) s (B10) B16) r Table (C2) on Aerial Im ed Plants (D tion (D2) (D3)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos	s): Carlor Carlo	ne is required	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presence Recent I Thin Mu	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ((	lor (C1) res on Livin d Iron (C4) on in Tilled 5 C7)		Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	/ Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ed or Stress torphic Posit topographic	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D7 tion (D2) (D3) Relief (D4)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation	s): Carlor Carlo	ne is required magery (B7)	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Other (E	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduce ron Reductio	lor (C1) res on Livin d Iron (C4) on in Tilled 5 C7)		Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	v Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ad or Stress orphic Posit	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D7 tion (D2) (D3) Relief (D4)	two requi
Depth (inche Remarks: IYDROLOG) Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation Sparsely V	s): <u>Car</u> <b>logy Indicators:</b> <u>ors (minimum of or</u> ater (A1) Table (A2) (A3) is (B1) Deposits (B2) its (B3) r Crust (B4) its (B5) Visible on Aerial In egetated Concave	ne is required magery (B7)	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Other (E	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ((	lor (C1) res on Livin d Iron (C4) on in Tilled 5 C7)		Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	/ Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ed or Stress torphic Posit topographic	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D7 tion (D2) (D3) Relief (D4)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation	s): <u>Car</u> <b>logy Indicators:</b> <u>ors (minimum of or</u> ater (A1) Table (A2) (A3) is (B1) Deposits (B2) its (B3) r Crust (B4) its (B5) Visible on Aerial In egetated Concave	ne is required magery (B7)	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Other (E	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ((	lor (C1) res on Livin d Iron (C4) on in Tilled 5 C7)		Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	/ Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ed or Stress torphic Posit topographic	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D7 tion (D2) (D3) Relief (D4)	two requi
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Depth (inche Remarks: <b>IYDROLOG</b> Wetland Hydro Primary Indicate Surface Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi Field Observat Surface Water I	s): Carlor (logy Indicators: ors (minimum of or ater (A1) Table (A2) (A3)	magery (B7) Surface (B8 es No	Water-S Aquatic Aquatic Marl Deg Vidized Presence Recent I Thin Mu Other (E) Depth (	tained Leave Fauna (B13) posits (B15) in Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface (( ixplain in Ref inches):	lor (C1) res on Living d Iron (C4) on in Tilled 3 C7) marks)		Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	/ Indicators ( ce Soil Crack age Patterns Trim Lines ( eason Wate ation Visible ed or Stress torphic Posit topographic	(minimum of ks (B6) s (B10) (B16) r Table (C2) on Aerial Im ed Plants (D7 tion (D2) (D3) Relief (D4)	two requi
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation Sparsely V Field Observat Surface Water I Water Table Pro	s): Control of the second seco	magery (B7) Surface (B8 es No es No	Water-S Aquatic Marl Dep Hydroge Oxidized Presence Recent I Thin Mu Other (E	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface (( explain in Ren inches): inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Moss Dry-S Satura Stunta Geom Shallo Microi FAC-I	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Inundation Sparsely V Field Observat Surface Water I Water Table Pro Saturation Pres	s): Carlor Carlo	magery (B7) Surface (B8 es No	Water-S Aquatic Marl Dep Hydroge Oxidized Presence Recent I Thin Mu Other (E	tained Leave Fauna (B13) posits (B15) in Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface (( ixplain in Ref inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Noss Noss Satura C3)Sturta Geom Shallo Shallo Microl	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C
Depth (inche Remarks: <b>IYDROLOG</b> Wetland Hydro Primary Indicato Surface Water Saturation ( Saturation ( Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla	s): Carlor Carlo	magery (B7) Surface (B8 es No es No	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Thin Mu Other (E) Depth ( Depth (	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ( xplain in Red inches): inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Moss Dry-S Satura Sturta Georr Shallo Microl FAC-1 nd Hydrology	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C
Depth (inche Remarks: <b>IYDROLOG</b> Wetland Hydro Primary Indicato Surface Water Saturation ( Saturation ( Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla	s): Carlor Carlo	magery (B7) Surface (B8 es No es No	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Thin Mu Other (E) Depth ( Depth (	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ( xplain in Red inches): inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Moss Dry-S Satura Sturta Georr Shallo Microl FAC-1 nd Hydrology	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Algal Mat o Iron Depos Sparsely V Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla Describe Recor	s): Carlor Carlo	magery (B7) Surface (B8 es No es No	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Thin Mu Other (E) Depth ( Depth (	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ( xplain in Red inches): inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Moss Dry-S Satura Sturta Georr Shallo Microl FAC-1 nd Hydrology	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C
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Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Algal Mat o Iron Depos Sparsely V Field Observat Surface Water I Water Table Pro Saturation Pres (includes capilla Describe Recor	s): Carlor Carlo	magery (B7) Surface (B8 es No es No	Water-S Aquatic Aquatic Marl Deg Hydroge Oxidized Presend Recent I Thin Mu Other (E) Depth ( Depth (	tained Leave Fauna (B13) posits (B15) In Sulfide Od I Rhizospher e of Reduced ron Reductio ck Surface ( xplain in Red inches): inches):	lor (C1) res on Living d Iron (C4) on in Tilled C7) marks)	Soils (C6)	Secondary Surfac Draina Moss Dry-S Satura Sturta Georr Shallo Microl FAC-1 nd Hydrology	/ Indicators ( ce Soil Cracl age Patterns Trim Lines ( eason Wate ation Visible ed or Stresso torphic Posit w Aquitard topographic Neutral Test	(minimum of ks (B6) s (B10) er Table (C2) on Aerial Im ed Plants (D' tion (D2) (D3) Relief (D4) (D5)	agery (C

_			- NOVA SCOTIA
Project/Site: Bleck Paint	Municipality/Cou	inty: On 76	harring L Sampling Date: Avg. 201
Applicant/Owner:			Sampling Point: LUL-LS-UP/
Investigator(s): S. King (11)	Affilia	ition: <u></u>	<u>BC</u>
Landform (hillslope, terrace, etc.): Hill Supe		Local relief	(concave, convex, none): Armmercky
Slope (%): 45 Lat: 645 9:55			636 Datum: Arth 83
Soil Map Unit Name/Type: Decklynd			stland Type:
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrology s			'Normal Circumstances' present? Yes No
Are Vegetation, Soil, or Hydrology r			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes N         Hydric Soil Present?       Yes N         Wetland Hydrology Present?       Yes N         Remarks:       (Explain alternative procedures here or in a september of the section of th		Is the Sampled within a Wetlar If yes, optional \	
VEGETATION – Use scientific names of plants.			
Tree Stratum (Plot size: 1/2 an)		ninant Indicator cies? Status	Dominance Test worksheet:
1. Picke. Blever	15	$\angle FHC$	Number of Dominant Species That Are OBL, FACW, or FAC:
	10	FAC	
3. Licke Musima	2	Fillin	Total Number of Dominant Species Across All Strata:(B)
4			
5·			Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
		tal Cover	
Sapling/Shrub Stratum (Plot size: <u>S 11</u> )	1	1 70	Prevalence Index worksheet:
1. And harsante	. <u> </u>		Total % Cover of: Multiply by:
2. Acathus denne undrieme		<u> </u>	OBL species $\mathcal{L}$ $x1 =$ FACW species $\mathcal{Z}$ $x2 =$
A Rall QLD D'LAG		_ FHU	FAC species $744 \times 3 = 241$
5 Septer proportion	·		FACU species $15$ x4 = $200$
	25 = Tot	tal Cover	UPL species x5 =
Herb Stratum (Plot size:)	<u></u>	100	Column Totals: <u>9'3</u> (A) <u>288</u> (B)
1. Corsous Condensis	10_	- FAC	
2. DETERTIS CUMPTOPHENE	5_	- EAC	Prevalence Index = B/A =
3. Rectaris allegotansis	<u> </u>	- FALL	Hydrophytic Vegetation Indicators:
4. Valcinium Vitig-idra		$\leq \overline{FAC}$	Rapid Test for Hydrophytic Vegetation
5. Contis pritalia	<u> </u>	<u></u>	Dominance Test is >50%
6. Cortex trisperman	·	UAL	Prevalence Index is ≤3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting
7. Mannen Hennem Censul thosis	. <u></u>	<u>FAL</u>	data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9	·		
10	<u>](</u> = Tol	tal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation
		tal Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)		J

Sampling Point: 425-UP	l

Depth CMatrix	Redox Features	
(inohes) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
<u>0-10</u>		Orgonic Bulk
10-30 101R2/10 100	90	Sand lovan Class the play
- E - wr	· -	
	· · · ·	
	o,	
<sup>1</sup> Type: <u>C=Concentration</u> , D=Depletion, RM	I=Reduced Matrix, CS=Covered or Coated S	Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Polyvalue Below Surface (S8)	5 cm Mucky Peat or Peat (S3)
Black Histic (A3)	Thin Dark Surface (S9)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	
Sandy Mucky Mineral (S1) Sandy Gloved Matrix (S4)	Redox Depressions (F8)	
Sandy Gleyed Matrix (S4)		
<sup>3</sup> Indicators of hydrophytic vegetation and v	vetland hydrology must be present, unless di	isturbed or problematic.
Restrictive Layer (if observed):		
7 /.		
Type: AULC		
Type: <u>Koulc</u> Depth (inches): 302		Hydric Soil Present? Yes No
Type: <u>ACUC</u> Depth (inches): <u>Bcz</u> Remarks:		Hydric Soil Present? Yes No
Depth (inches): <u><u></u> Remarks:</u>		Hydric Soil Present? Yes No
Depth (inches): <u>Sc2</u> Remarks: IYDROLQGY		
Depth (inches): <u><u></u> Remarks: IYDROLOGY Wetland Hydrology Indicators:</u>		
Depth (inches): <u>Sc2</u> Remarks: IYDROLQGY	uired; check all that apply)	
Depth (inches): <u>Sc2</u> Remarks: IYDROLOGY Wetland Hydrology Indicators:	uired; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required
Depth (inches): <u><u></u> Remarks: <b>IYDROLOGY</b> Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is requ</u></u>		Secondary Indicators (minimum of two required in the second secon
Depth (inches):	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required in the secondary Indicators (B6) Drainage Patterns (B10)
Depth (inches):	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Depth (inches):	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> </ul>	Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Depth (inches):	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Depth (inches):	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Secondary Indicators (minimum of two requir Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches):	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living</li> <li>Presence of Reduced Iron (C4)</li> </ul>	Secondary Indicators (minimum of two requin Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Depth (inches):	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Marl Deposits (B15)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> </ul>	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3)
Depth (inches): Remarks: <b>HYDROLOGY</b> Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ 	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled S         Thin Muck Surface (C7)         B7)       Other (Explain in Remarks)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Depth (inches):	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled S         Thin Muck Surface (C7)         B7)       Other (Explain in Remarks)	Secondary Indicators (minimum of two requires Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Soils (C6) Shallow Aquitard (D3) Microtopographic Relief (D4)
Depth (inches):	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled S         Thin Muck Surface (C7)         B7)       Other (Explain in Remarks)	Secondary Indicators (minimum of two requirest of two requirestances of two requirest of two requirest of two requirest of two r
Depth (inches):	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) B7) Other (Explain in Remarks) (B8)	Secondary Indicators (minimum of two requirest of two requirestances of two requirest of two requirest of two requirest of two r
Depth (inches):       Sec.         Remarks:         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled S         Thin Muck Surface (C7)         B7)       Other (Explain in Remarks)         (B8)         No       Depth (inches):         No       Depth (inches):	Secondary Indicators (minimum of two requined in the second se
Depth (inches):       Sc2         Remarks:         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) B7)     Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requiresting of tw
Depth (inches):       Sc2         Remarks:         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         Marl Deposits (B15)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled S         Thin Muck Surface (C7)         B7)       Other (Explain in Remarks)         (B8)         No       Depth (inches):         No       Depth (inches):	Secondary Indicators (minimum of two requiresting of tw
Depth (inches):       Sc2         Remarks:         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (Image)         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Describe Recorded Data (stream gauge, mage)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) B7)     Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requiresting of tw
Depth (inches):       Sc2         Remarks:         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7) B7)     Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requires a surface Soil Cracks (B6)         Drainage Patterns (B10)         Moss Trim Lines (B16)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         Roots (C3)       Stunted or Stressed Plants (D1)         Geomorphic Position (D2)         Soils (C6)       Shallow Aquitard (D3)         Microtopographic Relief (D4)         FAC-Neutral Test (D5)

## Freshwater Wetland Data Sheet: \_ Up 26\_\_\_\_

Date: Aug. 20114 Investigator(s): Scott Burley/ Weather: S. A/Cleard

 Wetland Type:

 1.Aquatic bed/unconsolidated bottom (AB)

 2.Bog(BO)

 3.Fen (FE)

Wetland Class: 1.Open water \_\_\_\_\_ 2.Deep marsh \_\_\_\_\_ 3.Shallow marsh \_\_\_\_\_ 4.Seasonally flooded flats \_\_\_\_\_

Wetland Subclass: 1.Vegetated open water 2.Non-vegetated OW 3.Floating leaved OW 4.Rooted floating leaved OW \_\_\_\_ 5.Dead woody OW 6.Vegetated deep marsh 7.Non-vegetated DM \_\_\_\_\_ 8.Dead woody DM 9.Sub-shrub DM 10.Floating leaved DM 11.Rooted floating leaved DM 12.Robust DM 13.Narrow-leaved DM 14.Broad-leaved DM 15.Dead woody shallow marsh \_\_\_\_\_ 16.Robust SM 17.Narrow leaved SM \_\_\_\_\_ 18.Broad leaved SM

Water Regime Indicator: 1.Permanently flooded \_\_\_\_\_ 2.Saturated \_\_\_\_\_

<u>Water Depth:</u> 1.0-5 cm <u>×</u> 2.5-20 cm <u>×</u> *n purk* 3.20-50 cm <u>–</u> Wetland Form<sup>1</sup>:: Wetland size: <u>ha</u> Associated Watercourse: <u>ANGLO-REL</u> AMGLA

4.Emergent wetland (EW) \_\_\_\_\_ 5.Shrub wetland (SB) \_\_\_\_\_ 6.Forested wetland (FW) \_\_\_\_\_

5.Meadow 6.Shrub swamp 7.Wooded swamp 8.Bog For X 19.Floating leaved SM 20.Rooted floating leaved SM 21.Non-vegetated SM 22.Emergent seasonally flooded flats 23.Shrubby SFF X 24.Grazed meadow \_\_\_\_ 25.Ungrazed M 26.Sedge M 💉 27.Sapling shrub swamp 🗡 28.Bushy SS X 29.Compact SS 30.Low sparse SS 31.Deciduous wooded swamp 32.Evergreen WS \_\_\_\_\_ 33.Wooded bog \_\_\_\_\_ 34.Shrubby B \_\_\_\_\_ 35.Open B \_\_\_\_

3.Seasonally flooded \_\_\_\_\_

4.50-100 cm \_\_\_\_\_ 5.>100 cm \_\_\_\_

Note: 1. Canadian Wetland Classification System (2nd Edition)

Impounded Wetland Type: 1.Beaver Pond 2.Man-made Impoundment Percent Vegetation Cover: 1.> 95% _X 2.76-95% in peripheral band 3.76-96% in patches 4.26-75% in peripheral band	<ul> <li>3.Ducks Unlimited Impoundment</li> <li>4. None of the above</li> <li>5.26-75% in patches</li> <li>6. 5-25% in peripheral band</li> <li>7. 5-25% in patches</li> <li>8.&lt; 5%</li> </ul>
Wetland Site: 1.Lacustrine 2.Riverine 3.Palustrine	4.Isolated 5.Deltaic
<u>Vegetation Types (%):</u> <u>1.Deciduous trees - 10, 20 Rell schole</u> <u>2.Coniferous trees - 10, 00 unitesport</u> <u>3.Dead trees - 10, 00 unitesport</u> <u>4.Fell shrubs - 20, - Cili Han Ka</u>	
6.Dead shrubs - 1090 - 1090 - 41 6.Dead shrubs - 7.Herbs - 40°20 - Bac Aster Cid 8.Mosses - 10°90 - 201000 9.Narrow-leaved emergents - Fermo - C	and mon Front
10.Broad-leaved emergents	
<u>15. Other -</u> Interspersion: 1.Minimal X 2.Low	3.Medium 4.High
<u>Conductivity</u> : N/A <u>Alkalinity</u> : N/A	<u>pH</u> : N/A
<u>Hydrological Classification:</u> 1.Surface water depression 2.Ground water depression	3.Surface water slope 4.Ground water slope
Inlets/Outlets/water bodies: Stolan Flowing through h	L west to last.
Wildine. (Observation/Signs/Reports)	
Passerines He parel freg	

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Page 2

**n**.

Adjacent Wildlife habitat (%): 1.Salt marsh 2.Forest <u>()</u> 3.Dykelands 4.Mudflats	5.Beach <u>変</u> 化なっ 6.River 7. Other
Description:	
Surrounding Land Use %: 1 Agriculture 2.Forestry 3 Recreation 4.Industrial 5.Urban development 6.Transportation	7.Residential 8.Waste Disposal 9.Scientific Research 10.Trapping 11.Education 12.Seasonal resident
Description: ATU USL in cure	
Disturbance: 1.Low _ K 2.Moderate 3.High	
Description:	
Roads and/or tracks: 1.Private road adjacent 2.DOT road adjacent 3.Private road within	4.DOT road within 5.Vehicle tracks 6.Other
Description:	
Existing Uses of Wetlands: 1.Economic use (e.g. farming) 2.Recreational activities 3.Aesthetics	4.Education & public awareness 5. None evident <u>×</u>
Potential Threats:	
Special Features: 1.Rare wetland type 2.Rare animal or plant species 3.Habitat of rare species	<ul> <li>4.Nesting site for colonial water birds</li> <li>5.Migration stop-over site</li> <li>6. None evident</li> </ul>
Description:	
Notes:	

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Page 3

 $\gg$ 77-Star 200 Seafer Dominhed Jon a chev 57 Surti Ð A open low french Funct  $\prec$ - She has Sclipe clowing the Shure APT B A

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WETLAND DE		DATA FORM -	NOVA SCOTIA
Project/Site: Black Paint	_ Municipality/C	county: <u>Cras</u>	Larcing L Sampling Date: Alig. Dis/
Applicant/Owner: UU/CUA			Sampling Point: WILD - W.DJ
Investigator(s): <u>S. Buddey</u>	Aff	iliation: <u>AM</u>	IGC
Landform (hillslope, terrace, etc.);	.3	Local relief (	(concave, convex, none):
Slope (%): Lat:	Loi	ng: <u>5023</u>	752 Datum: WAX 23
Soil Map Unit Name/Type:		Wel	tland Type: R. Panian Ean
Are climatic / hydrologic conditions on the site typical for th	is time of year?		
Are Vegetation, Soil, or Hydrology		-	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			,
Hydric Soil Present? Yes	No No No eparate report.)	Is the Sampled within a Wetlan If yes, optional V	
VEGETATION – Use scientific names of plants			
Tree Stratum (Plot size: 10, 10 )	Absolute D % Cover S	ominant Indicator	Dominance Test worksheet:
1. Licle, Glucia	) (2)	pecies? <u>Status</u>	Number of Dominant Species
2 Abits believer	10	1 FAC	
3. Retula cover Herlin	5	FACU	Total Number of Dominant
4			
5·			Percent of Dominant Species That Are OBL, FACW, or FAC:
	35=	Total Cover	
Sapling/Shrub Stratum (Plot size: $5^{\circ}$ )	_	FALL	Prevalence Index worksheet:
1. Havs crispe 2. Chesnadalabre Colyculate		C CALV	<u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>(5)</u> x 1 = <u>(6)</u>
3. AVON. C.		- EAcu	FACW species $50$ x 2 = $700$
4	/C		FAC species $30 \times 3 = 90$
5			FACU species $(\bigcirc x4 = 40]$
	20 =-	Total Cover	UPL species x 5 =
Herb Stratum (Plot size:)			Column Totals: (05 (A) 145 (B)
1. Cela Mugoristis Concelonisis			
2. A Ster remarking		$\leq c_{B}$	Prevalence Index = $B/A = 1.4$
3. Lybore shin terrestris	_ 20	EACL	Hydrophytic Vegetation Indicators:
4			Rapid Test for Hydrophytic Vegetation
5			Prevalence Index is ≤3.0 <sup>1</sup>
6			Morphological Adaptations <sup>1</sup> (Provide supporting
7			data in Remarks or on a separate sheet)
9			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10			
Woody Vine Stratum (Plot size:)	50 =1	Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1,			Hydrophytic
2			Vegetation
		Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)		

Sampling Point:	4	L	26	·w	7

Depth	Matrix Color (moist)	%		lox Features	- Loo <sup>2</sup> -			Domester	
2.17				%Type'		<u>xture</u>	Ala	Remarks	
		·	·		· ·				
							······		
				, ,					
·······									
Type: C=Conce	entration, D=Depl	letion. RM=R	educed Matrix. (	CS=Covered or Coated	Sand Grains.	²Loca	tion: PL=P	ore Lining, M=Ma	atrix.
Hydric Soil Indi	cators:	·						atic Hydric Soil	
ffistosol (A1			Sandy Red				rairie Redo		
Histic Epipe				Below Surface (S8)				r Peat (S3)	
Black Histic			Thin Dark \$				-	asses (F12)	
Hydrogen S				yed Matrix (F2)				n Soils (F19)	
Stratified La			Depleted N				ent Materia		
	low Dark Surface	e (A11)	Redox Dar			Other (E	xplain in R	emarks)	
Thick Dark S				ark Surface (F7)					
	y Mineral (S1)		Redox Dep	ressions (F8)					
Sandy Gleye	ed Matrix (S4)								
<sup>3</sup> Indicators of hyd	trophytic vegetat	ion and wells	and hydrology m	ust be present, unless of	disturbed or pro	hlematic			
	er (if observed):		and nyarology m						
-									
Туре:									
Depth (inches	\$):				Hyd	dric Soil F	Present?	Yes N	•
					Нус	dric Soil F	Present?	Yes <u> </u>	°
Depth (inches Remarks:	s):				Нус	dric Soil F	Present?	Yes <u>N</u>	0
Depth (inches Remarks:	s):							т. 	
Depth (inches Remarks: IYDROLOGY Wetland Hydrol	s): ogy Indicators:			apply)		Secondar	y Indicators		
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato	ogy Indicators:		d; check all that			<u>Secondar</u> Surfa	y Indicators ce Soil Cra	s (minimum of two cks (B6)	
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat	ogy Indicators: rs (minimum of o ier (A1)		d; check all that	tained Leaves (B9)		<u>Secondar</u> Surfa Drain	y Indicators ce Soil Cra age Patterr	<u>s (minimum of two</u> cks (B6) rs (B10)	
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water	ogy Indicators: rs (minimum of o ter (A1) Table (A2)		d; check all that Water-S Aquatic	tained Leaves (B9) Fauna (B13)		<u>Secondar</u> Surfa Drair Moss	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines	<u>e (minimum of two</u> cks (B6) ns (B10) 6 (B16)	
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation (inches in the second	ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3)		d; check all that Water-S Aquatic Marl Dej	tained Leaves (B9) Fauna (B13) posits (B15)		Secondar Surfa Drair Moss Dry-5	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines Season Wal	cks (B6) (B10) (B16) (B16) (Er Table (C2)	o req
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation ( Water Marks	ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1)		d; check all that Water-S Aquatic Marl Der Hydroge	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1)		Secondar Surfa Drain Moss Dry-S Satu	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines Season Wal ation Visibl	(minimum of two cks (B6) ns (B10) (B16) ter Table (C2) e on Aerial Image	o req
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation ( Water Marks Sediment D	ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2)		d; check all that Water-S Aquatic Marl Der Hydroge	tained Leaves (B9) Fauna (B13) posits (B15)		Secondar Surfa Drain Moss Dry-S Satur Sturn	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines Season Wat ation Visibl ed or Stres	(minimum of two cks (B6) is (B10) (B16) ter Table (C2) e on Aerial Image sed Plants (D1)	<u>) req</u>
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation ( Water Marks	ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2)		d; check all that Water-S Aquatic Marl Der Hydroge Oxidized	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1)	ng Roots (C3)	Secondar Surfa Drain Moss Dry-S Satur Sturn	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines Season Wal ation Visibl	(minimum of two cks (B6) is (B10) (B16) ter Table (C2) e on Aerial Image sed Plants (D1)	o req
Depth (inches Remarks: IYDROLOGY Wetland Hydrol Primary Indicato Surface Wat High Water Saturation ( Water Marks Sediment D	ogy Indicators: rs (minimum of o ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)		d; check all that Water-S Aquatic Marl Dep Hydroge Oxidized Presenc	tained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) & Rhizospheres on Livin	ng Roots (C3)	Secondar Surfa Drair Dry-S Saturi Sturi Geor	<u>y Indicators</u> ce Soil Cra age Patterr Trim Lines Season Wat ation Visibl ed or Stres	s (minimum of two cks (B6) ns (B10) (B16) ter Table (C2) e on Aerial Image sed Plants (D1) sition (D2)	o req
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WETLAND DE		DATA FORM -	- NOVA SCOTIA
Project/Site: Black Paint	_ Municipality/Co	unty: Grugs	have and sampling Date: Ave 20/19
Applicant/Owner: Undcine		(	Sampling Point: 4426 - 451
Investigator(s): S. B. Alan	Affilia	A	I-C
Landform (hillslope, terrace, etc.): Hill Slope		Local relief (	(concave, convex, none): Kennmusking
Slope (%): 3090 Lat: 0045705	Long		
Soil Map Unit Name/Type: Rockland			tland Type: uplimel - Opto Fevert
Are climatic / hydrologic conditions on the site typical for th	is time of year?		· · ·
Are Vegetation, Soil, or Hydrology		-	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	snowing sam	ipling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?       YesN         Hydric Soil Present?       YesN         Wetland Hydrology Present?       YesN         Remarks:       (Explain alternative procedures here or in a set)	No	Is the Sampled within a Wetlan If yes, optional V	
VEGETATION – Use scientific names of plants			
Tree Stratum (Plot size:)		minant Indicator	Dominance Test worksheet:
	<u>}o</u>		Number of Dominant Species That Are OBL, FACW, or FAC:
2. AS its Selsance		- EAL	Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species
5		<u></u>	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	<del>]</del> = To	tal Cover	Prevalence Index worksheet:
1. Blale pagyrifisc		C FHU	Total % Cover of: Multiply by:
2. Ah: 45 Bullanta	10_	/ EAC	OBL species x 1 =
3. Sochers cheerer americana	30 -	< EAC	FACW species x 2 =
4			FAC species $104$ x 3 = $3(1)$
5			FACU species $12$ x4 = $47$
Herb Stratum (Plot size:)	<u> </u>	otal Cover	UPL species $x 5 =$ Column Totals: $(14)$ (A) $\overline{5}$ (B)
1. Dogophris Cuppy /option	10	FAC	
2. Aralia Audicarilis		- Atc	Prevalence Index = B/A =
3. COMUS CONSIGLANGIS	102 _	<u> 2AL</u>	Hydrophytic Vegetation Indicators:
4. Cost: a tribelie	- <u>-</u> - <u>-</u> - <u>-</u>	FAC	Rapid Test for Hydrophytic Vegetation
5. Minon Henrin Cenalarsis		FAC	Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9			
Woody Vine Stratum (Plot size:)	<b>3</b> 9 = To	otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			Hydrophytic
2			Vegetation Present? Yes No
		tal Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)		

Adapted from U.S. Army Corps of Engineers form for Northeast-North Central Supplement for use in Nova Scotia (2011)

Sampling Point:	UL26-UPI

Depth Matrix (inches) Color (moist)	%	Color (moist)	Features		exture	Remarks	
a see						77	
<u>6-15</u> 5-55 7 5100 13	2				con.c_	acity	
5-25 7.54RB/3	5 00/0			7	It becay	<u>\</u>	
<u> </u>							
					0 0		
	<i>a</i> 2						
<sup>1</sup> Type: C=Concentration, D=De	anletion RM=Re	duced Matrix_CS	=Covered or Coste		<sup>2</sup> Locatio	n: PL=Pore Lining, M=I	Matrix
Hydric Soil Indicators:						Problematic Hydric So	
Histosol (A1)	_	Sandy Redox	(S5)	_	Coast Prair	rie Redox (A16)	
Histic Epipedon (A2)	-	Polyvalue Bel	ow Surface (S8)		5 cm Muck	y Peat or Peat (S3)	
Black Histic (A3)	-	Thin Dark Sur	face (S9)	_	_ Iron-Manga	anese Masses (F12)	
Hydrogen Sulfide (A4)	-	Loamy Gleyed				Floodplain Soils (F19)	
Stratified Layers (A5)	-	Depleted Mate				t Material (TF2)	
Depleted Below Dark Surface (A12)	ice (A11)	Redox Dark S		-	Other (Exp	lain in Remarks)	
Thick Dark Surface (A12) Sandy Mucky Minaral (S1)	-	Depleted Darl	• •				
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	-	Redox Depres	ssions (F8)				
Salidy Gleyed Matrix (S4)							
<sup>3</sup> Indicators of hydrophytic veget	ation and wetlan	nd hydrology must	be present, unless	disturbed or p	roblematic.		
Restrictive Layer (if observed	l):						
Туре:							
· / F · · · · · · · · · · · · · · · · ·							
				н	ydric Soil Pre	sent? Yes	No
Depth (inches): Remarks:				Hy	ydric Soil Pre	sent? Yes	No
Depth (inches): Remarks:				Hy	ydric Soil Pre	sent? Yes	No
Depth (inches): Remarks: IYDROLOGY				H			
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicator	s:			H3	Secondary In	ndicators (minimum of t	
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of	s:	check all that ap		H3	Secondary In	ndicators (minimum of t Soil Cracks (B6)	
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicator: Primary Indicators (minimum of Surface Water (A1)	s:	check all that ap	ned Leaves (B9)	H3	Secondary la Surface Drainag	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10)	
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2)	s:	<u>check all that ap</u> Water-Stair Aquatic Fa	ned Leaves (B9) una (B13)	H3	Secondary In Surface Drainag Moss Tr	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10) im Lines (B16)	
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	s:		ned Leaves (B9) una (B13) sits (B15)	H3	Secondary II Surface Drainag Moss Tr Dry-Sea	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10) rim Lines (B16) ason Water Table (C2)	wo requ
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	s:	<u>check all that app</u> Water-Stain Aquatic Fa Marl Depos Hydrogen S	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1)		Secondary II Surface Drainag Moss Tr Dry-Sea Saturati	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10) im Lines (B16) ason Water Table (C2) on Visible on Aerial Ima	wo requ
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	s:	<u>check all that app</u> Water-Stain Aquatic Far Marl Depos Hydrogen S Oxidized R	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Livi	ing Roots (C3)	Secondary II Surface Drainag Moss Tr Dry-Sea Saturatii Stunted	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10) im Lines (B16) ison Water Table (C2) on Visible on Aerial Ima or Stressed Plants (D1	wo requ
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of 	s:	<u>check all that app</u> Water-Stain Aquatic Far Marl Depos Hydrogen S Oxidized R Presence o	ned Leaves (B9) una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Livi of Reduced Iron (C4	ing Roots (C3)	Secondary In Surface Drainag Moss Tr Dry-Sea Saturatii Stunted Geomor	ndicators (minimum of t Soil Cracks (B6) e Patterns (B10) im Lines (B16) ison Water Table (C2) on Visible on Aerial Ima or Stressed Plants (D1 phic Position (D2)	wo requ
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