DILLON CONSULTING

NATURAL FORCES DEVELOPMENTS LP

Wetland Appendix 2021-2022

Benjamins Mill Wind Project

December 2022 – 22-4064

December 15 2022

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Attention: Megan MacIsaac

Wetland Appendix: 2021-2022 Wetland Delineation and Functional Assessment Results for the Benjamins Mill Wind Project

Dillon Consulting Limited (Dillon) is pleased to provide you with the final report for the delineation surveys and functional assessments for wetlands that were conducted as part of the biophysical environmental assessment for the Benjamins Mill Wind Project.

We trust the following meets your present needs. If you have any questions or comments, please contact the undersigned a t (902)-450-4000 ext. 5052 at your convenience.

Sincerely,

DILLON CONSULTING LIMITED

Kelly Regan, M.Sc.
Project Manager, Associate

KSR:vrt

Our file: 22-4064

Table of Contents

Figures

Tables

Appendices

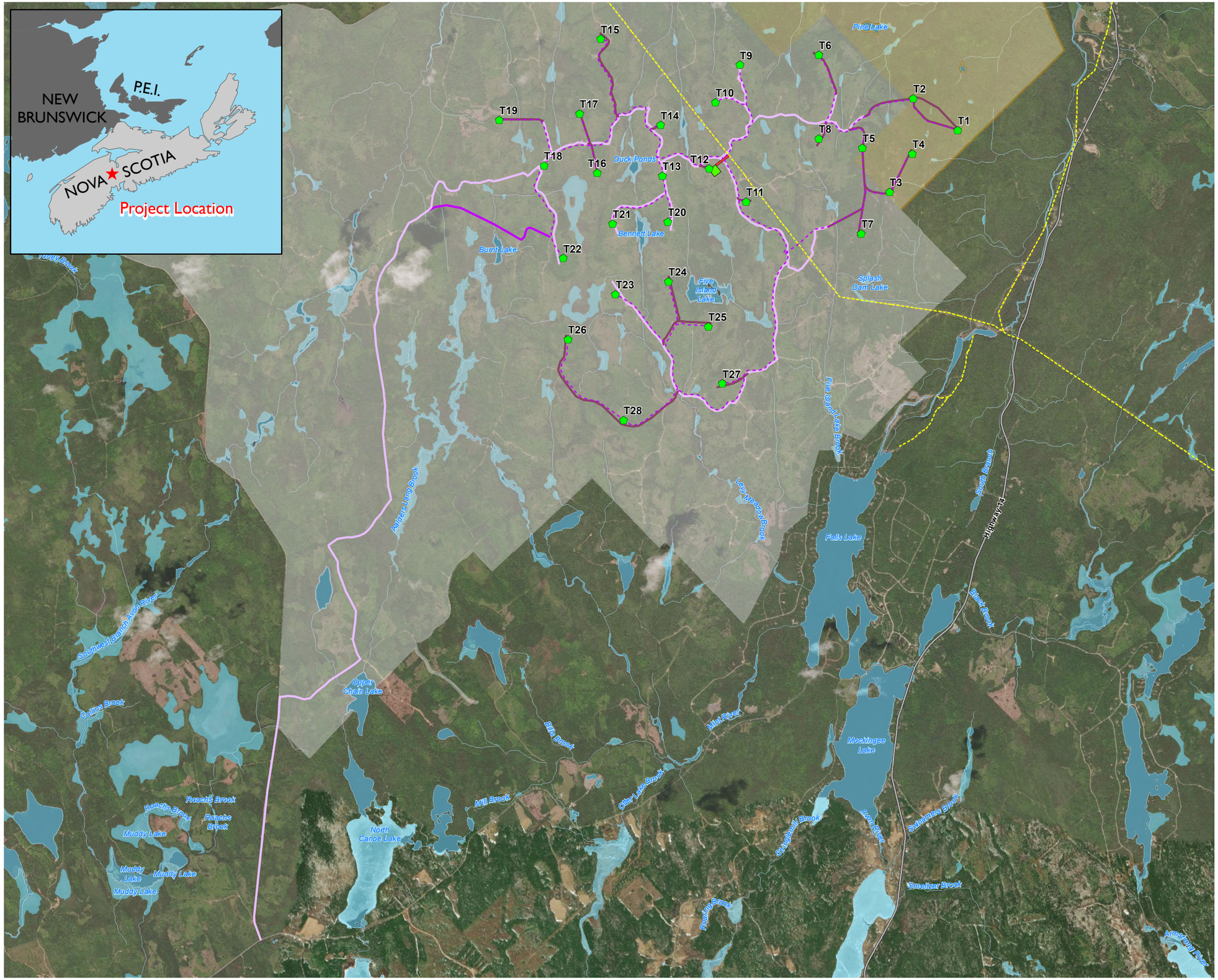
1.0 Introduction

Dillon Consulting Limited (Dillon) was retained by Natural Forces Developments Limited Partnership (the Proponent) on behalf of the Benjamins Mill Wind Limited Partnership to complete natural environment surveys in support of the development of a Nova Scotia Environmental Assessment Registration Document (EARD) and associated Addendum for the Benjamins Mill Wind Project (the Project). The Project is being developed and will be owned and operated by the Benjamins Mill Wind Limited Partnership, a partnership between Natural Forces Developments Limited Partnership (referred to herein as the Proponent or Natural Forces) and Wskijnu'k Mtmo'taqnuow Agency Limited (the Agency), a corporate body wholly owned by the 13 Mi'kmaw bands in Nova Scotia. Natural Forces acts on behalf of the Benjamins Mill Wind Limited Partnership for many aspects of Project development.

The Project consists of up to 28 wind turbine generators (WTGs) capable of producing up to 150 MW of renewable energy that will be connected to the existing Nova Scotia Power transmission grid via an overhead transmission line, as well as a substation (Figure 1). The Project is located in an undeveloped fragmented forested area in Hants County near the communities of Smiths Corner and Falls Lake.

The Project is located in an area where wetlands are present. Wetlands are considered important features and valued environmental components (VECs) because they are valued in their relationship with other wildlife and wildlife habitat, including other biological and physical components addressed as VECs in this EA. Natural environment surveys for the Project were conducted for VECs that were identified based on an understanding of the environmental features of the proposed project area, the nature of the Project, and the potential interactions that may occur between the Project and the environment/VECs.

Taking into consideration the objectives of the EARD, this report provides an effects assessment on wetlands, and includes: a brief overview of the proposed Project; a description of the scope and methodology used for the wetland surveys; a summary of the survey results; and, an assessment of residual effects (including potential interactions and mitigation) of the proposed Project on wetlands.



BENJAMINS MILL PROJECT

PROJECT LOCATION AND SITE LAYOUT

FIGURE 1

- Proposed Turbine Location
- Proposed Substation Location
- Crown Land
- Privately Owned Land
- Proposed Collector Network
- Roads to be Upgraded
- Proposed Access Road
- Proposed Alternative Access Road
- Proposed Interconnection Line
- Transmission Line
- Highway
- Watercourse
- Waterbodies

0 0.25 0.5 1 km

SCALE 1:50,000

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1.1 Background

Wetlands are important in maintaining the health of watersheds by moderating floods, reducing the rate of runoff, and minimizing sedimentation and erosion (NSE 2019). Other important functions of wetlands include:

- Buffering storm water runoff and supporting natural drainage patterns;
- Sequestration and storage of atmospheric carbon;
- Supporting the production of peat and natural foods;
- Filtering organic waste, bacteria, excess nutrients, contaminants, and silt from water;
- Providing critical habitat for fish, wildlife, and plants, including species of conservation concern (SoCC) and species at risk (SAR), includes globally significant coastal plain flora in Nova Scotia);
- Protecting the coastline from storm surges;
- Storing and releasing surface water and recharging groundwater, thereby contributing to drinking water supply;
- Supporting medicinal and ceremonial plants important to Mi'kmaq bands in Nova Scotia; and
- Supporting abundance and diverse plant communities which release essential food web nutrients after decomposition (NSE 2019).

Nova Scotia's wetlands have been given specific protection pursuant to the Nova Scotia Environment Act and the Environmental Goals and Sustainable Prosperity Act, which are enforced by Nova Scotia Environment and Climate Change (NSECC) and requires a permit for any wetland alteration greater than 100 m^2 in the area (NSE 2019). The Nova Scotia Wetland Conservation Policy and regulatory processes are guided towards the goal of achieving no net loss of wetland function (NSE 2019). Wetland compensation for alterations of a delineated wetland is often required as a condition of a wetland alteration permit when a net loss of wetland function occurs. In addition to the protection provided to wetlands through the Nova Scotia Wetland Conservation Policy, the Federal Policy on Wetland Conservation (Government of Canada 1991) is applicable if the Project is located on federal lands, federal funding is provided for the Project, or if federal decisions or approvals related to wetlands are required for the Project. In the case of the Project, there are no triggers for the Federal Policy on Wetland Conservation to be implemented.

The federal and provincial legislation that could apply to the Project include (but may not be limited to):

- *Canadian Environmental Protection Act* and regulations (ECC 1999);
- *Species at Risk Act* (ECCC 2002);
- *Transportation of Dangerous Goods Act*, and regulations (TC 1992);
- Nova Scotia *Environment Act* and regulations (NSECC 1994-95);
- Nova Scotia *Water Resources Protection Act*, and regulations (NSECC 2000);
- Nova Scotia *Endangered Species Act*, and regulations (NSECC 1998a);
- Nova Scotia *Wilderness Areas Protection Act*, and regulations (NSECC 1998b); and
- Contingency Planning Guidelines (NSECC 2021).

The Nova Scotia Wetland Conservation Policy also outlines the definition of Wetlands of Special Significance (WSS). WSS are wetlands or areas of a wetland that play a particularly important role in providing ecosystem services or functions, such as protecting drinking water supplies or supporting SAR or SoCC. The Wetland Conservation Policy outlines an objective of preventing any loss of WSS. The following are considered WSS:

- Salt marshes;
- Wetlands within or partially within a Ramsar site, Wildlife Management Area, provincial park, nature reserve, wilderness area, or lands owned or protected by conservation land trusts;
- Wetlands that are project sites under the North American Waterfowl Management Plan and are secured for conservation;
- Wetlands in protected water areas (outlined in Section 106 of the Nova Scotia *Environment Act*); and
- Wetlands that are known to support SAR designated under the federal *Species at Risk Act* (SARA) or the Nova Scotia *Endangered Species Act* (NSESA; NSE 2019). NSECC will also consider classifying other wetlands as WSS if they: support high wildlife biodiversity or significant species assemblages, have significant hydrological value, or have high importance socially or culturally (NSE 2019).

1.2 Purpose and Objectives of the Report

Taking into consideration the objectives of the EARD, this report provides a summary of the wetland surveys and functional assessments conducted as part of the biophysical surveys undertaken in support of the Project's Environmental Assessment registration. This report includes the following:

- A brief description of the Project;
- A description of the scope and methodology used for the survey and functional assessment;
- A summary of the proposed approach used to evaluate the data;
- The results of the surveys and functional assessment; and
- An assessment of residual effects (including potential interactions and mitigation) of the proposed Project on wetlands.

2.0 Project Description

The following is a high-level summary of the Project. Please refer to the Benjamins Mill Wind Project Environmental Assessment Registration Document Addendum (the Addendum) dated December 2022 for further information.

The Project is located in Benjamins Mill in West Hants County, Nova Scotia. The Project is proposed to have an installed capacity of 150 MW, amounting to up to 28 WTGs and associated infrastructure, including collector lines, an electrical substation, and overhead transmission line (Figure 1).

The Project is located on a mix of privately-owned and Crown lands approximately 3.3 km west of Highway 14. The privately-owned lands have undergone several generations of wood harvesting and have a network of existing forestry roads. The Crown lands are largely undisturbed with few existing roads across the property. In addition, the Project site was selected due to its attractive wind resource, elevation, proximity to and located of the Nova Scotia Power transmission system, distance from residences, previous forest harvesting activities across the site, and low environmental sensitivity.

The purpose of the Project is to contribute to Nova Scotia achieving their renewable electricity targets through the generation of clean and renewable energy. Not only will this have environmental benefits, but will also reduce Nova Scotia's reliance on imported energy sources through the development of a localized renewable energy generation (Renewable Electricity Regulations 2021).

3.0 Scope of Work

To support the assessment of the potential effects of the Project on wetlands, the scope of work for the wetland surveys was based on the recommended approach outlined in the Nova Scotia Wetland Conservation Policy (NSE 2019). Wetlands in Nova Scotia are defined by the Environment Act as land periodically or permanently has a water table at, near or above the land's surface, or that is saturated with water, and sustains aquatic processes as indicated by the presence of poorly drained soils, hydrophytic vegetation, and biological activities adapted to wet conditions (NSE 1994-95). This includes lands commonly referred to as marshes, swamps, fens, and bogs, each of which has unique ecological conditions (NSE 2019). Other characteristics of wetlands include water at or near the surface that is less than 2 m deep, little to no current, flora and fauna that thrive in wet environments, and rich mineral soils or peat formed where water saturates or floods the surface (NSE 2019).

The scope of the Project wetland surveys included:

- Initial desktop assessment of wetlands within the Local Assessment Area (LAA) to identify potential locations of wetlands and inform, and refine, the field surveys (**Figure 2**);
- Delineation and classification of wetlands through field surveys completed within the study area of a 30 m buffer of the Potential Development Area (PDA; see **Figure 2**); and
- Functional assessment of wetlands in the study area that have the potential to be impacted.

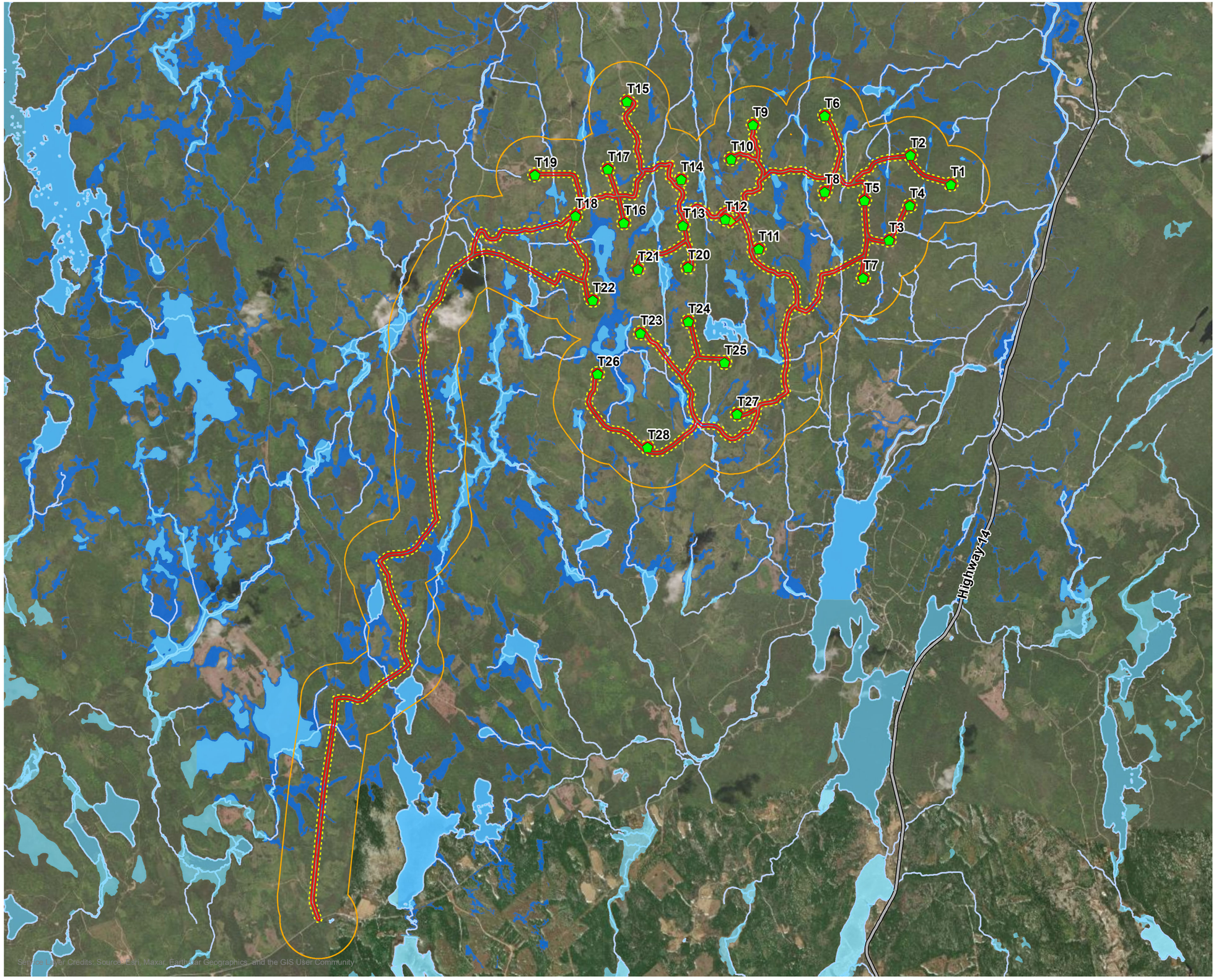
3.1 Spatial Boundaries

For the purpose of the wetland surveys conducted as part of the biophysical baseline for the Project, the spatial boundaries included the PDA, the LAA, and the study area and are described in Table 1. A 30 m wide protective buffer of natural, undisturbed vegetation around a wetland is encouraged to protect wetlands from the impact of outside threats such as anthropogenic disturbance, and serves as important habitat for wildlife (New Brunswick Department of Environment and Local Government (NBDELG) 2002).

Table 1: Spatial Boundaries for the Assessment of Wetlands

Spatial Boundary	Definition	Purpose of Spatial Boundary
Potential Development Area (PDA)	The PDA encompasses the Project footprint and a buffer of 15 m on either side of shoulders of roadways (either existing or new), collector lines and transmission line, a 75 m buffer around the base of each turbine location, and a 25 m buffer around the substation.	Represents the extent of anticipated areas that could undergo physical disturbance associated with the Project. This area encompasses the proposed up to 28 turbines locations and their associated infrastructure.

Spatial Boundary	Definition	Purpose of Spatial Boundary
Study area	Area encompasses wetlands located within 30 m of the PDA.	The area included in a focused survey on foot. Observations in the study area are extrapolated and applied to understand potential effects of the Project on the full LAA.
Local Assessment Area (LAA)	Area encompasses a buffer of 500 m around the PDA and was selected to capture wetlands and wetlands connected to watercourse with crossings within 30 m of the PDA and their associated tributaries or distributaries.	The anticipated maximum area where Project-specific environmental interactions can be predicted and measured with a reasonable degree of accuracy and confidence (i.e., the zone of influence of the Project on each VEC).



Natural Forces

BENJAMINS MILL WIND PROJECT

WET AREAS MODEL AND LOCAL ASSESSMENT AREA FOR WETLANDS

FIGURE 2

- Proposed Turbine Location
- Proposed Substation Location
- Study Area
- Potential Development Area (PDA)
- Local Assessment Area (LAA)
- Watercourse
- Waterbodies
- Predicted Wet Area Model

0 0.25 0.5 1 1.5 2 km

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4.0 Methods

4.1 Desktop Wetlands Assessment Methods

Prior to field assessments, Dillon reviewed readily-available public information from reputable sources to inform existing conditions of the LAA and to guide the field surveys. Dillon completed a review of the following sources:

- Google Earth® satellite imagery;
- The Nova Scotia Wetlands Inventory (NSDNRR 2021); and
- Publicly-available geographic information systems (GIS) map layers.

High-resolution Google Earth imagery was available for the site from July 2021, May 2020, October 2019, September 2017, September 2015, March 2014, and August 2012, May 2010 and September 2002. The imagery was primarily reviewed for recent changes in land use (e.g., logging) and to identify landscape level features (e.g., topography and changes in vegetation regime) which could indicate a wetland.

4.1.1 Wet Areas Model (WAM)

A site-specific wet areas model (WAM) was developed by Dillon using GIS to predict potential watercourse and wetland crossings not mapped in provincial or wetland watercourse datasets. Development of the model relied heavily on the availability of Light Detection and Ranging (LiDAR) Digital Elevation Models (DEM), which are freely available in Nova Scotia. As part of the modelling, a flow accumulation analysis was completed to determine the upstream area that flows into each cell (a 1 m by 1 m grid) within the study area. Using these data and applying a suitable threshold (i.e., greater than 100,000 upstream cells) is a useful predictor of watercourses, potential watercourses, and drainage channels within the LAA. The potential watercourses and drainage channels are then used as an input into potential wet areas modeling as an additional source of known mapped water features.

Wet areas modeling compares the elevations of each cell in a study area against the elevation of the nearest known mapped water features (e.g., lakes, rivers, wetlands, etc.). Where there are slight differences in the ground elevation against the elevation of these water features (e.g., less than 1 m in the DEM), these areas can be good predictors of potential wet areas.

4.2 Field Survey Methods

The wetland field surveys included the delineation, classification and functional assessment of wetlands within 30 m of the PDA. Field surveys of the wetlands in the study area were conducted by qualified Dillon professionals experienced in wetland delineation and functional assessment. The preliminary wetland surveys were conducted between June 1, 2021 and September 30, 2021 by Dillon wetland

professionals to classify and delineate the wetlands present within the study area. Following minor updates to the Project layout, the study area for the wetland assessment was adjusted in 2022. In August and September 2022, the wetlands in the updated study area were classified and delineated, and previously-assessed wetlands were revisited to confirm no changes had occurred to their previously-assessed classification and delineation. A functional assessment of wetlands within the study area was conducted concurrently.

4.2.1 Wetland Delineation

The methods of wetland determination and delineation used in the wetland surveys were based upon established protocols for wetland delineation, in particular, the U.S. Army "Corps of Engineers Wetland Delineation Manual" (Environmental Laboratory 1987). Wetland Delineation Data Sheets that were adapted from U.S. Army Corps of Engineers form for Northeast-North Central Regional Supplement for use in Nova Scotia (USACE 2012) were used to record data collected in the field. Wetland determination and delineation primarily focused on establishing the wetland-upland edge and was based on the presence of positive indicators for three parameters:

- Hydric (wet) soil conditions;
- Hydrophytic (wet adapted) vegetation; and
- Wetland hydrology.

Soil sampling is performed to a depth of at least 50 cm (or to a point of refusal, such as bedrock) to assess wetland soils for hydric soil conditions. Soil horizons are documented in terms of their texture, thickness, colour (Munsell value/chroma/hue), and presence of hydric soil indicators (when applicable). Hydric soil indicators (e.g., gleyed matrix, redox features) were determined following the "Field Indicators of Hydric Soils in the United States" (USACE 2012) guide.

For each wetland, a minimum of one plant plot was assessed to confirm the dominance of hydrophytic vegetation. For each wetland plant plot, plant species observed were analyzed at three strata (i.e., tree, shrub, and herbaceous) and were documented in terms of their percent (%) cover within a given plot size (10 m, 5 m, and 2 m radius, respectively). Wetland indicator status for plant species observed within the plant plots were determined as per United States Department of Agriculture (USDA) Region 1 (Nova Scotia and New Brunswick) listings for interpreting USDA Wetland Indicator Status (USACE 2012).

At each wetland soil sampling pit and over the greater area of the wetland, observations were made on the wetland hydrological regime. To determine the hydrological regime, the wetland context, site location, and microtopography of the wetland area were taken into consideration. Both primary and secondary hydrology indicators were recorded, if present, at each wetland. To confirm hydric soil conditions, at least one primary hydrology indicator (e.g., surface water, a high-water table, soil saturation, or sediment deposits) must be present. Secondary indicators used (of which two are required in the absence of a primary indicator) include surface soil cracks, drainage patterns, moss trim lines, and drift or sediment deposits, among others (USACE 2012).

4.2.2 Wetland Functional Assessment

Wetland functional assessments were completed at 77 wetlands within the LAA (shown on Figures 3A-F). The assessments followed a standardized method for assessing natural wetland functions and benefits called the "Wetland Ecosystems Services Protocol for Atlantic Canada" (WESP-AC) (NBDELG 2018). WESP-AC represents a standardized approach to the way data is collected and interpreted to indirectly yield relative estimates of a wide variety of important wetland functions and their associated benefits. The functional assessments were completed in August and September 2022, consistent with the protocol requirement of assessments occurring prior to site construction and within the growing season (approximately June 1 – September 30). The results of the WESP-AC functional assessment provided a classification for assessed wetlands based on their functionality as well as the identification of WSS.

The WESP-AC scoring (i.e., 0 to 10) and ratings (i.e., "Lower", "Moderate", or "Higher") were assigned to a variety of wetland functions based on visual assessments of weighted ecological indicators (Adamus 2018). The number of ecological indicators applied to estimate a particular wetland function depended on which functions were assessed as part of the field surveys. The indicators were then combined in a spreadsheet using logic-based, mathematical models to generate the score and rating for each wetland function and benefit (NSDNRR 2021). Together, this information provided a profile of functions and benefits provided by each assessed wetland.

Wetland functions are summarized as grouped functions in the WESP-AC calculator. For each wetland function, the scores and ratings represent a particular wetland's standing relative to those in a statistical sample of non-tidal wetlands previously assessed in the province (121 calibration wetlands in NS; NBDELG 2018). Table 2 provides a list of various wetland functions by summary group, including their definitions and potential hydrological, biochemical, and ecological benefits of the wetland functions.

Table 2: Benefits of Grouped Wetland Functions Scored by WESP-AC

Function	Definition	Potential Benefits
Hydrologic Group		
Water Storage and Delay	The effectiveness for storing runoff or delaying the downslope movement of surface water for long or short periods.	• Flood control • Maintenance of ecological systems
Water Quality Support Group		
Sediment Retention and Stabilization	The effectiveness for intercepting and filtering suspended inorganic sediments thus allowing their deposition, as well as reducing energy of waves and currents, resisting excessive erosion, and stabilizing underlying sediments or soil.	• Maintain quality of receiving waters • Protect shoreline structures from erosion
Phosphorus Retention	The effectiveness for retaining phosphorus for long periods (> 1 growing season).	• Maintain quality of receiving waters

Function	Definition	Potential Benefits
Nitrate Removal and Retention	The effectiveness for retaining particulate nitrate and converting soluble nitrate and ammonium to nitrogen gas while generating little or no nitrous oxide (a potent greenhouse gas).	• Maintain quality of receiving waters
Carbon Sequestration	The effectiveness for retaining particulate and dissolved carbon, and converting carbon dioxide gas to organic matter (particulate or dissolved).	• Maintain quality of receiving waters
Aquatic Support Group		
Stream Flow Support	The effectiveness for contributing water to streams, especially during the driest part of a growing season.	• Support fish and other aquatic life
Aquatic Invertebrate Habitat	The capacity to support or contribute to an abundance or diversity of invertebrate animals which spend all or part of their life cycle underwater or in moist soil. Includes dragonflies, midges, clams, snails, water beetles, shrimp, aquatic worms, and others.	• Support salmon and other aquatic life • Maintain regional biodiversity
Organic Nutrient Transport	The effectiveness for producing and subsequently exporting organic nutrients (mainly carbon), either particulate or dissolved.	• Support food chains in receiving waters
Water Cooling	The effectiveness for maintaining or reducing temperature of downslope waters.	• Support cold water fish and other aquatic life
Aquatic Habitat Group		
Anadromous Fish Habitat	The capacity to support an abundance and diversity of native anadromous fish species.	• Support recreational and ecological values • Support salmon and other aquatic life
Resident Fish Habitat	The capacity to support an abundance and diversity of native non-anadromous fish species.	• Support recreational and ecological values • Support aquatic life
Amphibian and Turtle Habitat	The capacity to support or contribute to an abundance or diversity of native frogs, toads, salamanders, or turtles.	• Maintain regional biodiversity
Waterbird Feeding Habitat	The capacity to support or contribute to an abundance or diversity of waterbirds that migrate or winter but do not breed in the region.	• Support hunting and ecological values • Maintain regional biodiversity
Waterbird Nesting Habitat	The capacity to support or contribute to an abundance or diversity of waterbirds that nest in the region.	• Maintain regional biodiversity

Function	Definition	Potential Benefits
Transition Habitat Group		
Songbird, Raptor, and Mammal Habitat	The capacity to support or contribute to an abundance or diversity of native songbird, raptor, and mammal species and functional groups, especially those that are most dependent on wetlands or water.	• Maintain regional biodiversity
Pollinator Habitat	The capacity to support pollinating insects and birds.	• Maintain regional biodiversity and food chains
Native Plant Habitat	The capacity to support or contribute to a diversity of native, hydrophytic, vascular plant species, communities, and/or functional groups.	• Maintain regional biodiversity and food chains.

Notes:
Source: NNDNRR (2021)

4.3 Assessment of Wetlands of Special Significance

Wetlands within the study area were evaluated for their potential for meeting the criteria of a WSS. WSS are defined within Nova Scotia's Wetland Conservation Policy as wetlands that play particularly important roles in providing ecosystem services or functions (NSECC 2019). Based on the Policy, this includes the following wetland types:

- Salt marshes;
- Wetlands that are within or partially within a designated protected or managed area (as defined in the Policy);
- Intact or restored wetlands that are project sites under the North American Waterfowl Management Plan and secured for conservation;
- Wetlands known to support SAR; and
- Wetlands in designated protected water areas.

Additionally, the following characteristics, functions and services were considered in the evaluation of WSS within the study area:

- Wetlands that support a significant species or species assemblages (e.g., coastal plain flora),
- Wetlands that support high wildlife biodiversity;
- Wetlands that have high hydrologic value; and
- Wetlands that have high social or cultural importance.

For this EARD, the following definitions apply:

- Species at risk (abbreviated SAR): A species that is determined to be Endangered, Threatened, or Vulnerable/Special Concern by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), Nova Scotia *Endangered Species Act* (NSESA), or the federal *Species at Risk Act* (SARA); and

- Species of conservation concern (abbreviated SoCC): those species that are not SAR but are identified as regionally vulnerable or imperilled by the AC CDC (i.e., those species with AC CDC S-ranks of S1: Critically imperiled in province; S2: Imperiled in province; and S3: Vulnerable) in province of Nova Scotia.

The wetlands were evaluated for the potential of being WSS in addition to functional assessment using the WESP-AC. Although the excel model used for the WESP-AC assessments includes an interpretation tool to classify WSS based on wetland functionality, it is recognized that the tool currently does not consider all aspects of WSS that are considered under the provincial Wetland Conservation Policy. As such, following completion of WESP-AC assessment wetlands were reviewed to see if they fall under the definition of WSS per the provincial Wetland Conservation Policy.

5.0 Results

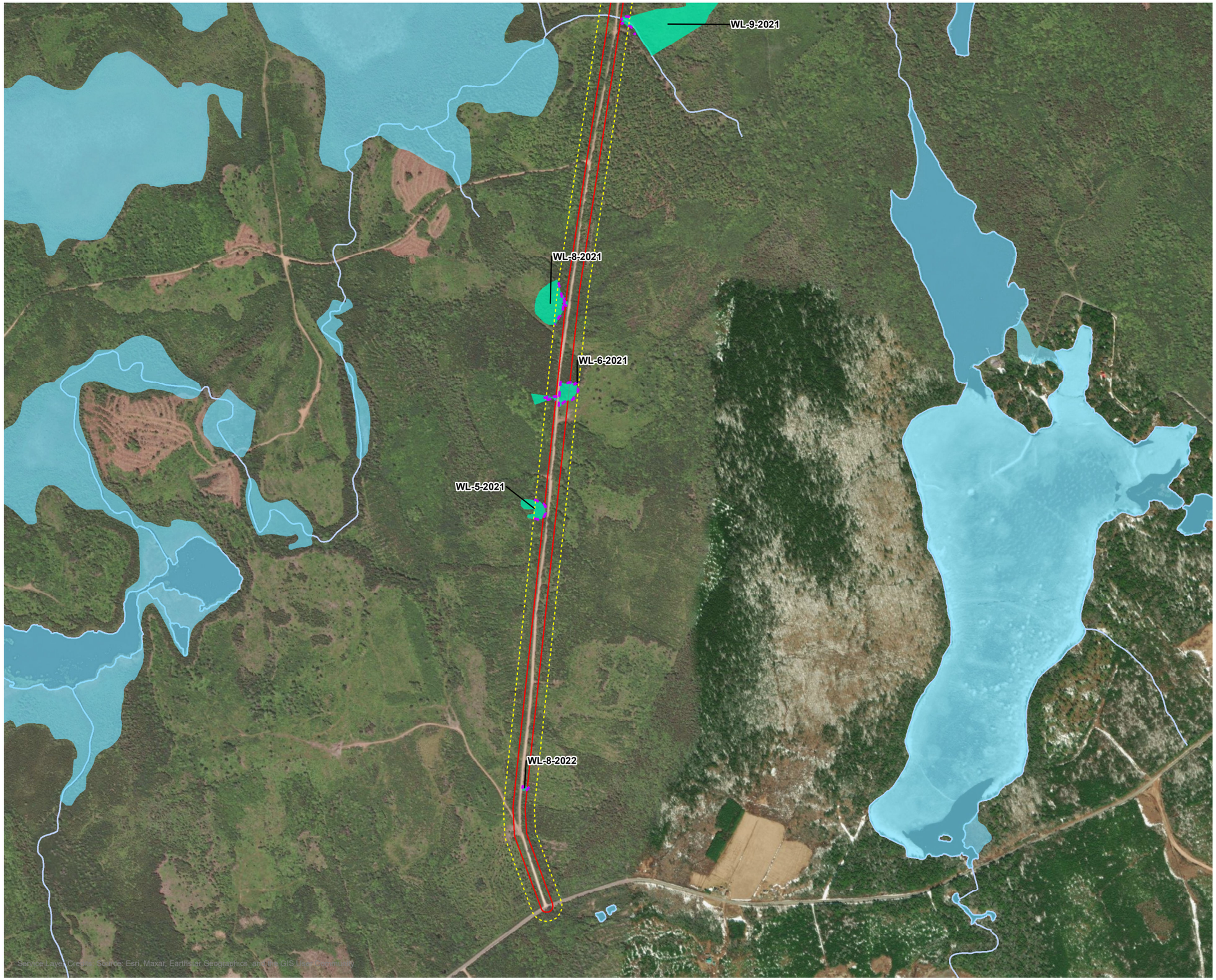
5.1 Desktop Survey Results

Desktop assessment and the wet areas model identified the potential for wetlands to be located in the LAA (see Figure 2, above). The desktop-based analysis constraints mapping informed an avoidance-based design approach for the Project layout. Wetlands whose boundaries were predicted to overlap with the study area were then ground-truthed during the 2021 and 2022 field seasons to identify, delineate and conduct functional assessments. The results of the field surveys, which were informed by the results of the desktop survey are presented in the following section (Section 5.2).

5.2 Wetland Delineation Results

Based on the wetland assessments conducted in 2021 and 2022, 77 wetlands were identified that were within or had a portion of their area within the Study Area. For wetlands that extended beyond the Study Area, the entire wetland was either field delineated if feasible, or the portion of the wetland outside the study area was modeled based on the site-specific WAM. Wetlands were numbered sequentially for each year of their initial delineation, with the year added to their ID (e.g., WL-2-2021). In some cases, wetlands that were initially assessed as separately were found to be one wetland that crossed the PDA at multiple locations (e.g., WL-9-2021); as a result, there are gaps in the wetland numbering for the wetland list presented in this section. The 77 surveyed wetlands are shown on Figures 3A-F, and their general characteristics are summarized in Table 3.

The wetlands within the study area included swamps (treed and shrub), bogs, fens, and complexes with both swamp and fen components. The wetland types are based on the Canadian Wetland Classification System (National Wetlands Working Group 1997). The wetlands identified within the study area were delineated following NSECC's recommended methodology (NSECC 2022) during the 2021-2022 growing season (i.e., June 1-September 30). Wetland general characteristics are summarized in Table 3 and detailed wetland factsheets with representative photos are presented in Appendix A.



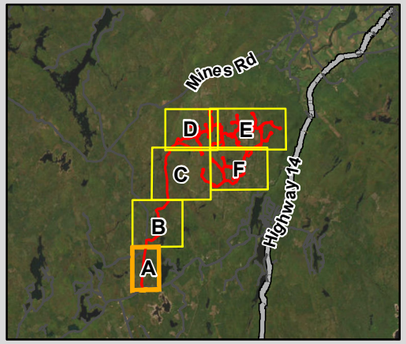
Natural Forces

BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 A

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



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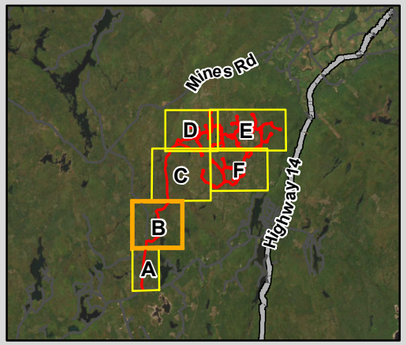
BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 B

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



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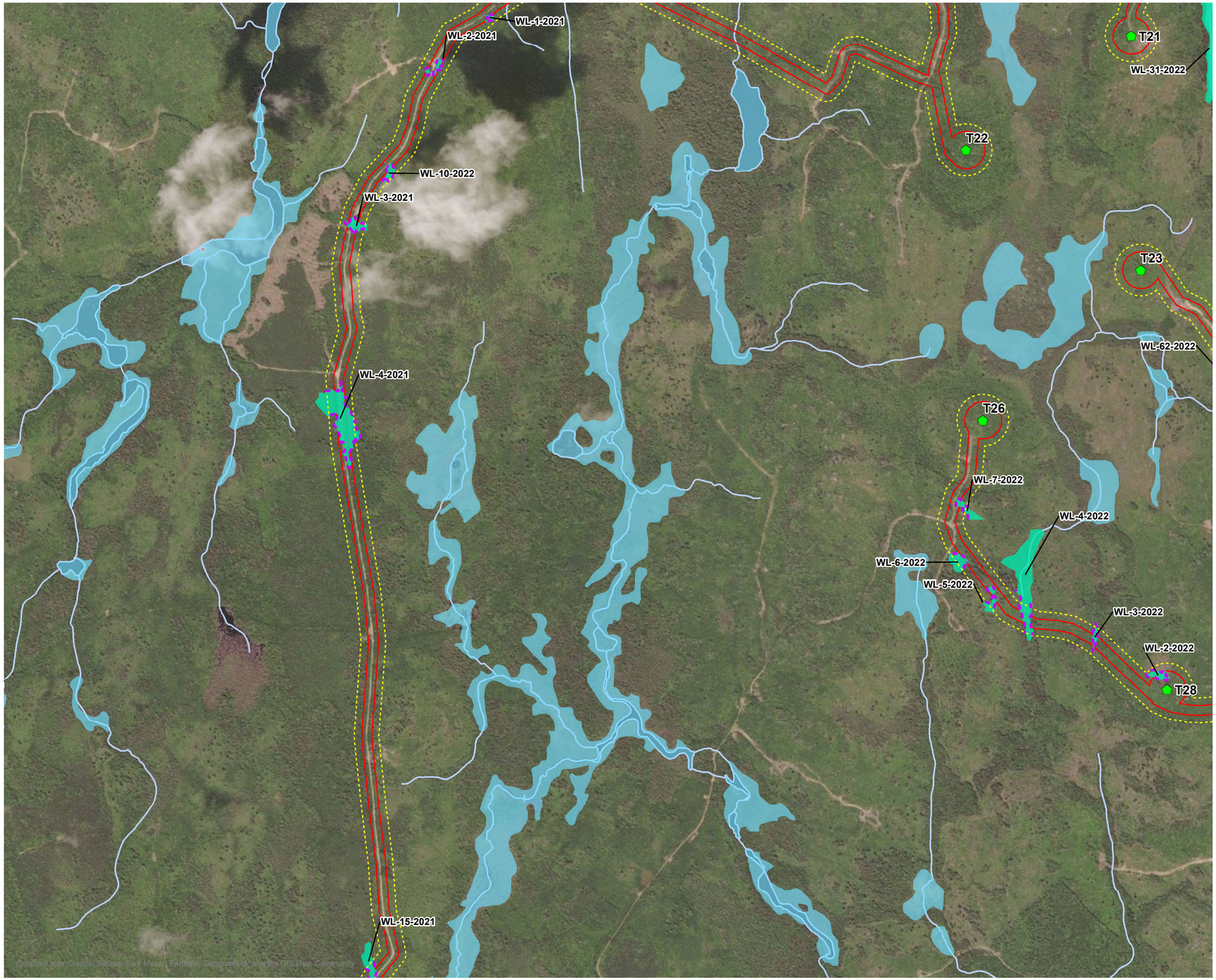


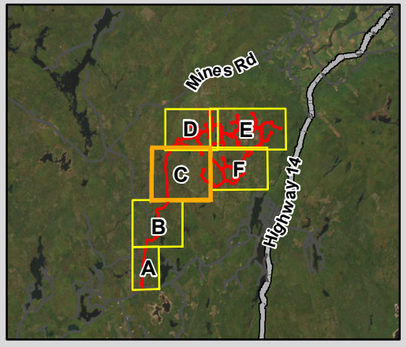
Natural Forces

BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 C

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



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SCALE 1:15,000

MAP DRAWING INFORMATION:
DATA PROVIDED BY DILLON CONSULTING, GEONB, NATURAL FORCES

MAP CREATED BY: DU
MAP CHECKED BY: KB
MAP PROJECTION: NAD 1983 UTM ZONE 20N

DILLON CONSULTING

PROJECT: 21-1329
STATUS: DRAFT
DATE: 2022-12-14

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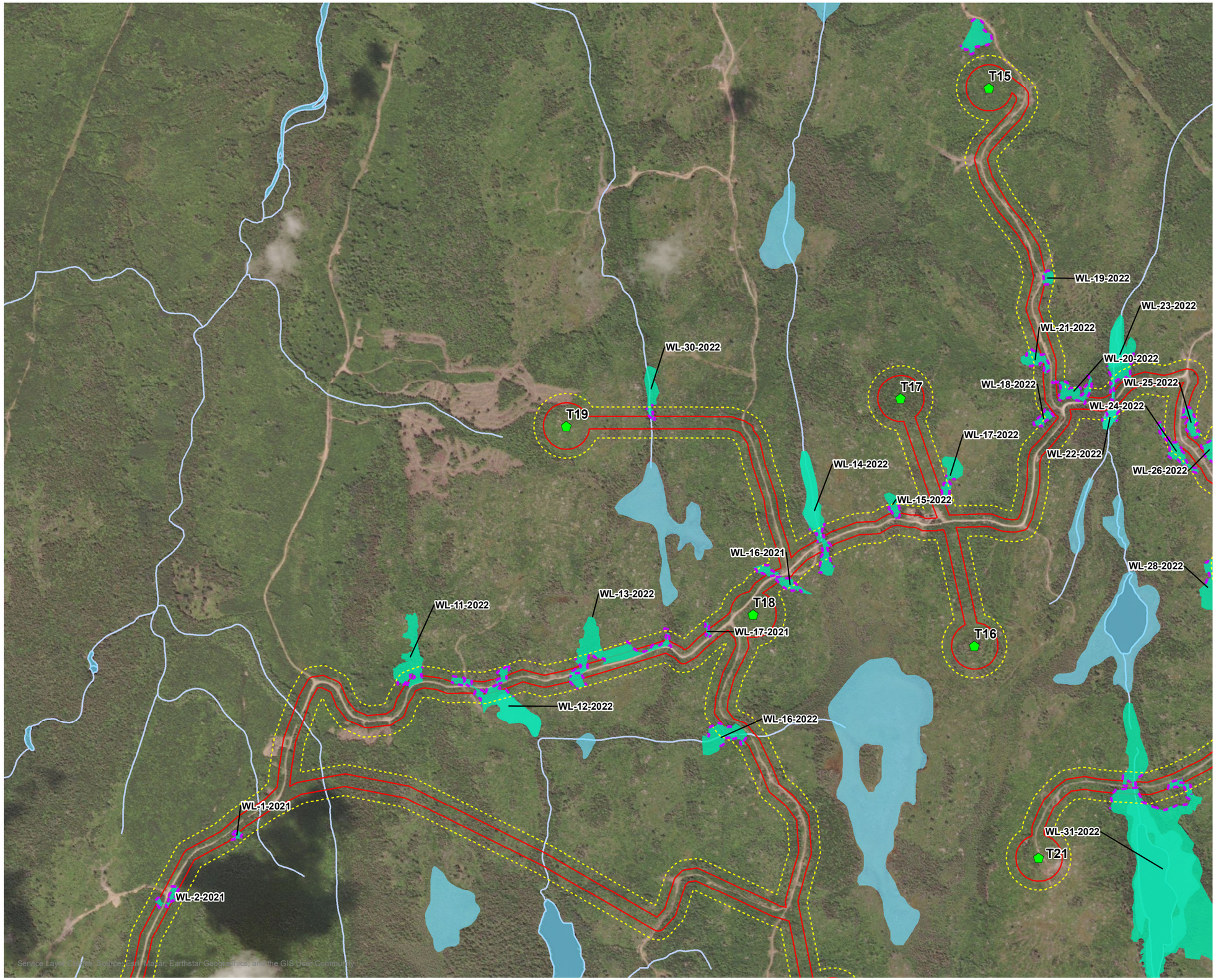


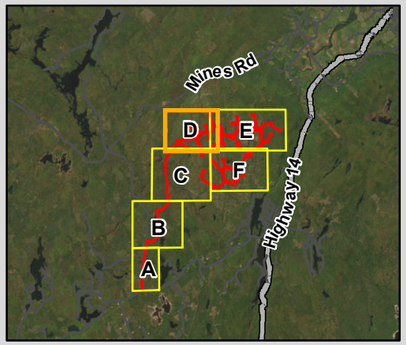
Natural Forces

BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 D

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



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MAP CREATED BY: DU
MAP CHECKED BY: KB
MAP PROJECTION: NAD 1983 UTM ZONE 20N

DILLON CONSULTING

PROJECT: 21-1329

STATUS: DRAFT

DATE: 2022-12-14

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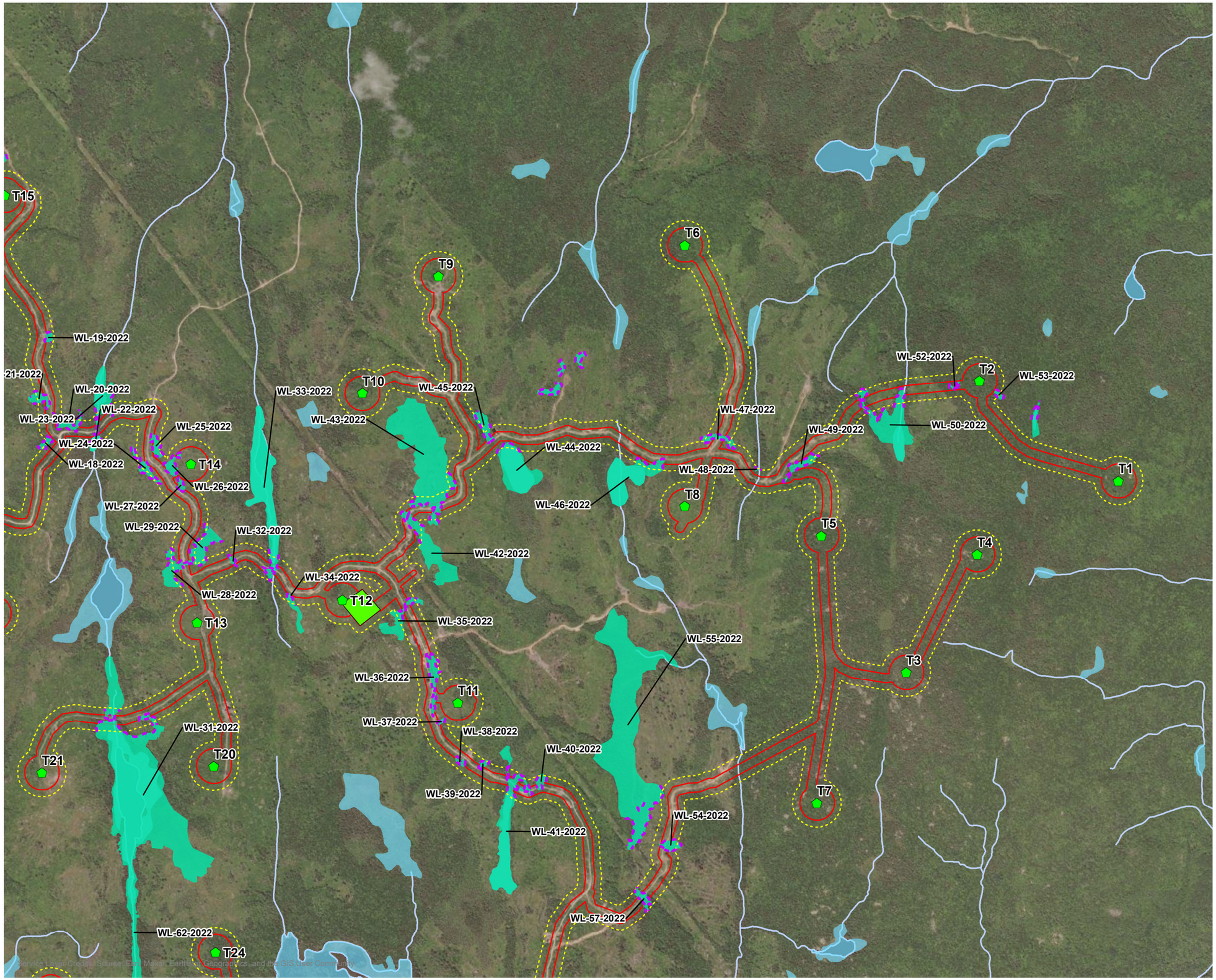


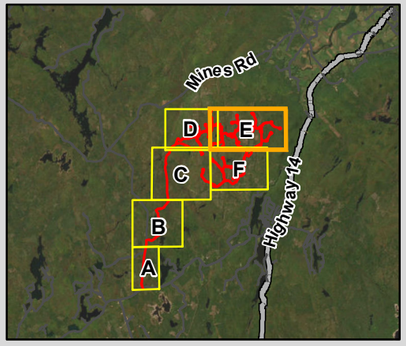
Natural Forces

BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 E

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



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N W E S

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MAP CHECKED BY: KB
MAP PROJECTION: NAD 1983 UTM ZONE 20N

DILLON CONSULTING

PROJECT: 21-1329

STATUS: DRAFT

DATE: 2022-12-14

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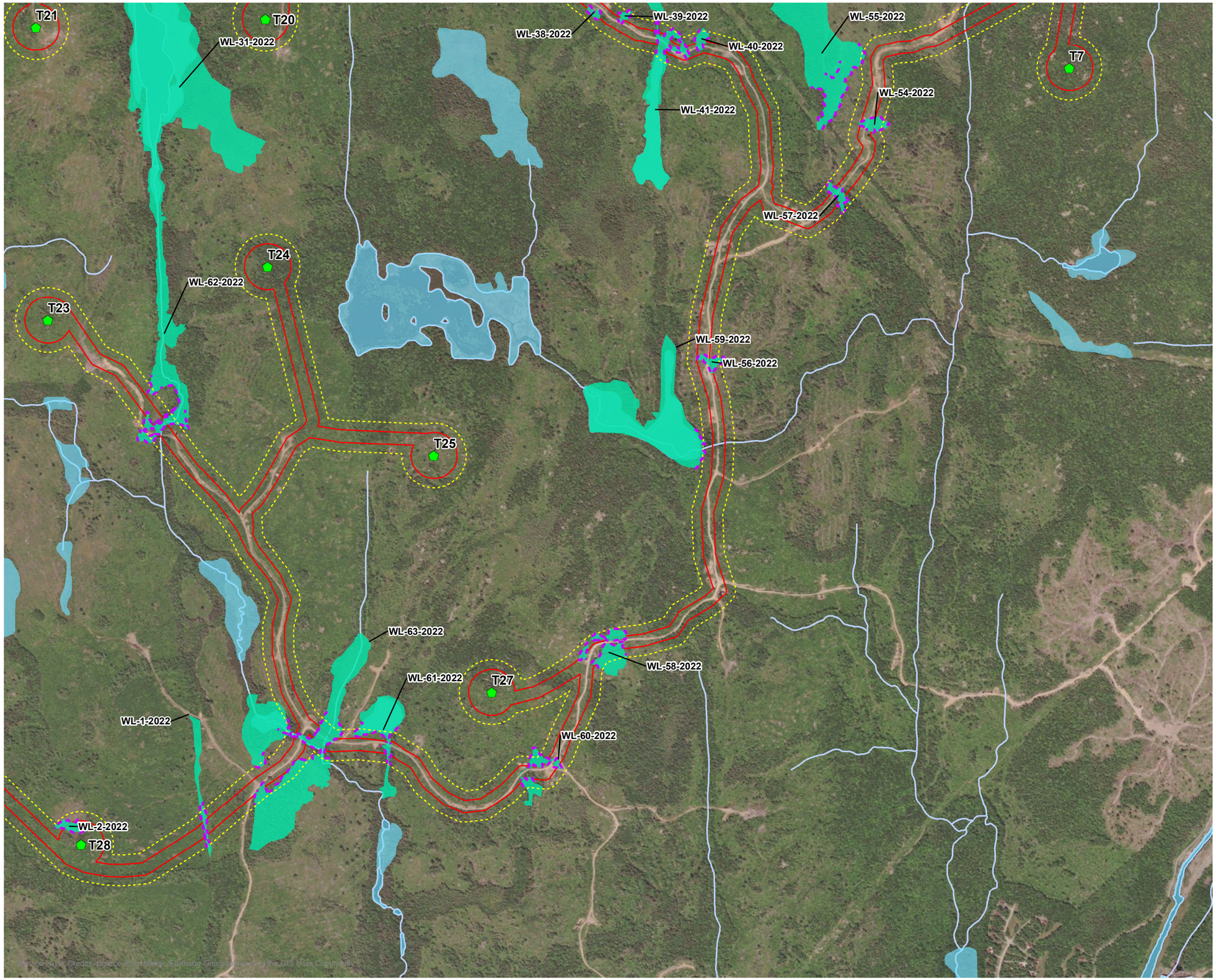


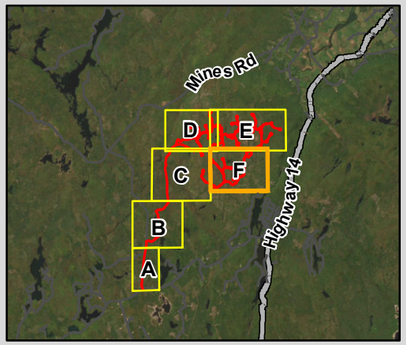
Natural Forces

BENJAMINS MILL WIND PROJECT

WETLANDS WITHIN THE STUDY AREA

FIGURE 3 F

- Proposed Turbine Location
- Proposed Substation Location
- Potential Development Area (PDA)
- Field Delineated Wetland Boundary
- Study Area
- Watercourse
- Waterbodies
- Model Interpreted Wetland Boundary



0 0.25 0.5 km

N W E S

SCALE 1:12,000

MAP DRAWING INFORMATION:
DATA PROVIDED BY DILLON CONSULTING, GEONB, NATURAL FORCES

MAP CREATED BY: DU
MAP CHECKED BY: KB
MAP PROJECTION: NAD 1983 UTM ZONE 20N

DILLON CONSULTING

PROJECT: 21-1329
STATUS: DRAFT
DATE: 2022-12-14

FILE LOCATION: K:\2021\211329\Product\Internal\Benjamin_Mills_Figures_2022\Wetlands Figures 2022\BM_F03_Wetland_WithinSAandLAA_2022.mxd

Table 3: Summary of Wetlands Characteristics

Wetland ID	Wetland Type	Approximate Total Wetland Area (ha)*	Water Flow Path	Landscape Position	Landform
WL-1-2021	Treed Swamp	0.07	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-2-2021	Treed Swamp	0.17	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-3-2021	Shrub Swamp	0.30	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-4-2021	Shrub Swamp	2.20	Outflow	Terrene	Basin
WL-5-2021	Treed Swamp	0.36	Throughflow (WC-23-2022)	Lotic Stream	Basin
WL-6-2021	Treed Swamp	0.46	Outflow (intermittent flow via WC-21-2021)	Terrene	Basin
WL-8-2021	Treed Swamp	1.01	Throughflow (intermittent flow via WC-20-2021)	Lotic Stream	Basin
WL-9-2021	Fen and Shrub Swamp Complex	6.07	Throughflow (permanent flow via WC-19-2021)	Lotic Stream	Basin
WL-11-2021	Shrub Swamp	3.09	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-12-2021	Shrub Swamp	4.03	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-13-2021	Treed Swamp	1.15	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-14-2021	Treed Swamp	2.55	Throughflow (permanent flow via WC-16-2021)	Lotic Stream	Basin
WL-15-2021	Shrub Swamp	1.31	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-16-2021	Bog	0.42	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-17-2021	Bog	0.05	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-1-2022	Bog	0.70	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-2-2022	Disturbed Swamp	0.23	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-3-2022	Treed Swamp	0.13	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-4-2022	Treed Swamp	2.56	Outflow (ephemeral/subsurface)	Terrene	Basin

Wetland ID	Wetland Type	Approximate Total Wetland Area (ha)*	Water Flow Path	Landscape Position	Landform
WL-5-2022	Disturbed Swamp	0.26	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-6-2022	Bog	0.40	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-7-2022	Disturbed Swamp	0.29	Outflow (ephemeral/subsurface)	Terrene	Slope
WL-8-2022	Bog	0.02	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-9-2022	Shrub Swamp	0.35	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-10-2022	Treed Swamp	0.19	Outflow (intermittent flow via 'WC-15-2021')	Terrene	Basin
WL-11-2022	Treed Swamp	1.18	Outflow (intermittent flow via WC-12-2021)	Terrene	Slope
WL-12-2022	Complex: Bog and Treed Swamp	1.76	Throughflow (permanent flow via WC-11-2021)	Lotic Stream w/pond	Basin
WL-13-2022	Bog	1.69	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-14-2022	Shrub Swamp	1.53	Throughflow (ephemeral/subsurface)	Lotic Stream	Basin
WL-15-2022	Treed Swamp	0.26	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-16-2022	Treed Swamp	0.85	Throughflow (intermittent flow via WC-10-2021)	Lotic Stream	Basin
WL-17-2022	Bog	0.56	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-18-2022	Treed Swamp	0.16	Isolated(likely some subsurface/vertical flow)	Terrene	Basin
WL-19-2022	Bog	0.13	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-20-2022	Treed Swamp	0.47	Outflow (ephemeral/subsurface)	Terrene	Slope
WL-21-2022	Shrub Swamp	0.36	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-22-2022	Shrub Swamp	0.25	Throughflow (permanent flow via WC-9-2021)	Lotic Stream	Basin

Wetland ID	Wetland Type	Approximate Total Wetland Area (ha)*	Water Flow Path	Landscape Position	Landform
WL-23-2022	Treed Swamp	1.34	Throughflow (permanent flow via WC-9-2021)	Lotic Stream	Floodplain (Stillwater)
WL-24-2022	Bog	0.42	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-25-2022	Bog	0.30	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-26-2022	Bog	0.35	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-27-2022	Bog	0.13	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-28-2022	Bog	0.81	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-29-2022	Bog	1.07	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-30-2022	Treed Swamp	0.50	Throughflow (ephemeral/subsurface)	Lotic Stream	Basin
WL-31-2022	Complex: Fen and Treed Swamp	16.78	Throughflow (ephemeral/subsurface)	Lentic (Bennett Lake)	Basin
WL-32-2022	Bog	0.08	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-33-2022	Treed Swamp	4.39	Throughflow (permanent flow via WC-8-2021)	Lotic Stream	Floodplain (Stillwater)
WL-34-2022	Bog	0.39	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-35-2022	Bog	0.93	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-36-2022	Bog	0.65	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-37-2022	Disturbed Swamp	0.06	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-38-2022	Bog	0.10	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-39-2022	Shrub Swamp	0.10	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-40-2022	Treed Swamp	0.21	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-41-2022	Treed Swamp	3.37	Throughflow (ephemeral/subsurface)	Lotic Stream	Basin

Wetland ID	Wetland Type	Approximate Total Wetland Area (ha)*	Water Flow Path	Landscape Position	Landform
WL-42-2022	Bog	2.15	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-43-2022	Bog	7.40	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-44-2022	Bog	2.47	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-45-2022	Treed Swamp	0.54	Outflow (ephemeral/ subsurface)	Terrene	Basin
WL-46-2022	Treed Swamp	2.58	Outflow (intermittent flow via WC-7-2021)	Terrene	Basin
WL-47-2022	Disturbed Swamp	0.35	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-48-2022	Treed Swamp	0.02	Throughflow (intermittent flow via WC-6-2021)	Lotic Stream	Basin
WL-49-2022	Bog	0.41	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-50-2022	Treed Swamp	2.86	Throughflow (permanent flow via WC-2-2022)	Lotic Stream w/pond	Floodplain (Stillwater)
WL-52-2022	Treed Swamp	0.06	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-53-2022	Treed Swamp	0.09	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-54-2022	Bog	0.31	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-55-2022	Bog	12.99	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-56-2022	Disturbed Swamp	0.23	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-57-2022	Treed Swamp	0.28	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-58-2022	Bog	1.13	Isolated (likely some subsurface/vertical flow)	Terrene	Basin
WL-59-2022	Treed Swamp	6.28	Throughflow (permanent flow via WC-4-2021)	Lotic Stream	Floodplain (Stillwater)
WL-60-2022	Shrub Swamp	0.65	Outflow (ephemeral/subsurface)	Terrene	Basin
WL-61-2022	Shrub Swamp	1.83	Throughflow (permanent flow via WC-3-2021)	Lotic Stream	Basin

Wetland ID	Wetland Type	Approximate Total Wetland Area (ha)*	Water Flow Path	Landscape Position	Landform
WL-62-2022	Shrub Swamp	3.87	Throughflow (permanent flow via WC-1a-2021) (Stream 1a)	Lotic Stream	Basin
WL-63-2022	Treed Swamp	8.63	Throughflow (permanent flow via WC-1-2021)	Lotic Stream	Floodplain
	Total Area*:	124.7			

Notes:
*Approximate total area includes the delineated area of wetlands within the Study Area, including predicted areas that extend beyond the Study Area, where applicable.

As mentioned above, the Project layout was designed to avoid the placement of WTGs and their associated linear infrastructure within wetlands, to the fullest extent possible. While 77 wetlands were identified that intersect the Study Area (30 m from the PDA), only 10% of their total area (12.8 ha) is within the PDA. A summary of the proposed alterations to wetlands within the PDA in Table 4. It is worth noting that several of the wetlands are found adjacent to existing forestry roads, with areas having been historically cleared.

Table 4: Summary of Wetlands and Proposed Alterations with 30 m of the PDA

Wetland ID	Wetland Area (ha)			Nature of Alteration
	Total Size[1]	Within PDA	Maximum Area to be Altered[2]	
WL-1-2021	0.07	0.02	0.004	Potential infilling to upgrade an existing access road
WL-2-2021	0.17	0.15	0.058	Potential infilling to upgrade an existing access road
WL-3-2021	0.30	0.18	0.105	Potential infilling to upgrade an existing access road
WL-4-2021	2.20	1.01	0.543	Potential infilling to upgrade an existing access road
WL-5-2021	0.36	0.02	0	None, wetland located adjacent to PDA for existing access road upgrades
WL-6-2021	0.46	0.19	0.128	Potential infilling to upgrade an existing access road
WL-8-2021	1.01	0.01	0	None, wetland located adjacent to PDA for existing access road upgrades
WL-9/10-2021	6.07	0.04	0.013	Potential infilling to upgrade an existing access road
WL-11-2021	3.09	0.07	0.010	Potential infilling to upgrade an existing access road

Wetland ID	Wetland Area (ha)			Nature of Alteration
	Total Size[1]	Within PDA	Maximum Area to be Altered[2]	
WL-12-2021	4.03	0.00	0	None, wetland located adjacent to PDA for existing access road upgrades
WL-13-2021	1.15	0.02	0	None, wetland located adjacent to PDA for existing access road upgrades
WL-14-2021	2.55	0.07	0.023	Potential infilling to upgrade an existing access road
WL-15-2021	1.31	0.17	0.076	Potential infilling to upgrade an existing access road
WL-16-2021	0.42	0.09	0.031	Potential infilling to upgrade an existing access road.
WL-17-2021	0.05	0.03	0.018	Potential infilling to upgrade an existing access road
WL-1-2022	0.70	0.05	0.023	Infilling to create access road with collector line.
WL-2-2022	0.23	0.14	0	None – Wetland to be spanned by a collector line. Adjacent proposed access road will not encroach within the wetland.
WL-3-2022	0.13	0.07	0.040	Infilling to create access road with collector line.
WL-4-2022	2.56	0.15	0.074	Infilling to create access road with collector line.
WL-5-2022	0.26	0.09	0.055	Infilling to create an access road
WL-6-2022	0.40	0.03	0	None - Wetland to be spanned by a collector line. Adjacent proposed access road will not encroach within the wetland.
WL-7-2022	0.29	0.05	0.018	Potential infilling to upgrade an existing access road
WL-8-2022	0.02	0.02	0.008	Potential infilling to upgrade an existing access road
WL-9-2022	0.35	0.13	0.050	Potential infilling to upgrade an existing access road
WL-10-2022	0.19	0.04	0.009	Potential infilling to upgrade an existing access road
WL-11-2022	1.18	0.10	0.056	Potential infilling to upgrade an existing access road
WL-12-2022	1.76	0.27	0.101	Potential infilling to upgrade an existing access road

Wetland ID	Wetland Area (ha)			Nature of Alteration
	Total Size[1]	Within PDA	Maximum Area to be Altered[2]	
WL-13-2022	1.69	0.51	0.302	Potential infilling to upgrade an existing access road
WL-14-2022	1.53	0.09	0.038	Potential infilling to upgrade an existing access road
WL-15-2022	0.26	0.03	0.009	Potential infilling to upgrade an existing access road
WL-16-2022	0.85	0.15	0.078	Potential infilling to upgrade an existing access road
WL-17-2022	0.56	0.01	0	None – An adjacent proposed access road will not encroach within the wetland.
WL-18-2022	0.16	0.00	0	None – Wetland to be spanned by a collector line. Adjacent proposed access road will not encroach within the wetland.
WL-19-2022	0.13	0.03	0	None – Adjacent access road upgrades will not encroach within the wetland.
WL-20-2022	0.47	0.07	0.012	Potential infilling to upgrade an existing access road.
WL-21-2022	0.36	0.08	0.033	Potential infilling to upgrade an existing access road
WL-22-2022	0.25	0.02	0.002	Potential infilling to upgrade an existing access road
WL-23-2022	1.34	0.05	0.020	Potential infilling to upgrade an existing access road
WL-24-2022	0.42	0.00	0	None – Wetland to be spanned by a collector line
WL-25-2022	0.30	0.05	0.013	Potential infilling to upgrade an existing access road
WL-26-2022	0.35	0.19	0.068	Infilling to create access road with collector line
WL-27-2022	0.13	0.05	0.013	Potential infilling to upgrade an existing access road
WL-28-2022	0.81	0.05	0.012	Potential infilling to upgrade an existing access road
WL-29-2022	1.07	0.02	0.009	Potential infilling to upgrade an existing access road
WL-30-2022	0.50	0.02	0.004	Infilling to create access road with collector line

Wetland ID	Wetland Area (ha)			Nature of Alteration
	Total Size[1]	Within PDA	Maximum Area to be Altered[2]	
WL-31-2022	16.78	0.23	0.076	Potential infilling to upgrade an existing access road with collector lines
WL-32-2022	0.08	0.06	0.040	Potential infilling to upgrade an existing access road with collector lines
WL-33-2022	4.39	0.16	0.073	Potential infilling to upgrade an existing access road with collector lines
WL-34-2022	0.39	0.01	0	None – Adjacent access road upgrades will not encroach within the wetland
WL-35-2022	0.93	0.05	0.018	Potential infilling to upgrade an existing access road
WL-36-2022	0.65	0.35	0.140	Potential infilling to upgrade an existing access road
WL-37-2022	0.06	0.01	0.001	Potential infilling to upgrade an existing access road
WL-38-2022	0.10	0.06	0.013	Potential infilling to upgrade an existing access road
WL-39-2022	0.10	0.02	0.003	Potential infilling to upgrade an existing access road
WL-40-2022	0.21	0.07	0.038	Potential infilling to upgrade an existing access road
WL-41-2022	3.37	0.34	0.202	Potential infilling to upgrade an existing access road
WL-42-2022	2.15	0.18	0.099	Potential infilling to upgrade an existing access road
WL-43-2022	7.40	0.25	0.094	Potential infilling to upgrade an existing access road
WL-44-2022	2.47	0.00	0	None, wetland located adjacent to PDA for existing access road upgrades
WL-45-2022	0.54	0.06	0.023	Potential infilling to upgrade an existing access road
WL-46-2022	2.58	0.05	0.021	Potential infilling to upgrade an existing access road
WL-47-2022	0.35	0.08	0.040	Potential infilling to upgrade an existing access road
WL-48-2022	0.02	0.00	0	None, wetland located adjacent to PDA for existing access road upgrades

Wetland ID	Wetland Area (ha)			Nature of Alteration
	Total Size[1]	Within PDA	Maximum Area to be Altered[2]	
WL-49-2022	0.41	0.11	0.048	Potential infilling to upgrade an existing access road and infilling to create a new access road
WL-50-2022	2.86	0.12	0.058	Infilling to create an access road with collector lines.
WL-52-2022	0.06	0.06	0.046	Potential infilling of a portion of the wetland in the PDA for an access road and collector line.
WL-53-2022	0.09	0.00	0	None – Wetland to be spanned by a collector line
WL-54-2022	0.31	0.13	0.068	Potential infilling to upgrade an existing access road
WL-55-2022	12.99	0.00	0.000	None – Wetland to be spanned by a collector line
WL-56-2022	0.23	0.10	0.043	Potential infilling to upgrade an existing access road
WL-57-2022	0.28	0.12	0.063	Potential infilling to upgrade an existing access road
WL-58-2022	1.13	0.28	0.098	Potential infilling to upgrade an existing access roads
WL-59-2022	6.28	0.00	0	None – Adjacent access road upgrades will not encroach within the wetland
WL-60-2022	0.65	0.11	0.040	Potential infilling to upgrade an existing access roads
WL-61-2022	1.83	0.08	0.047	Potential infilling to upgrade an existing access road
WL-62-2022	3.87	0.12	0.048	Infilling to create an access road with collector lines, a bridge or culvert may be required to span the watercourse that is likely to provide habitat for fish
WL-63/64-2022	8.63	0.31	0.140	Potential infilling to upgrade an existing access road with collector lines. Bridges/culverts may require upgrades to maintain the watercourses within this wetland that are likely to provide habitat for fish
Total	124.7	8.15	3.63	

Notes:

[1] Approximate total wetland area includes the delineated area of wetlands within the Study Area, as well as the predicted area extends beyond the Study Area, where applicable.

[2] For the purposes of this assessment, a conservative assumed width of 20 m was applied to the Project roads to estimate the maximum wetland area to be altered for these wetlands. Wetlands associated with collector lines will be spanned by poles.

5.3 Functional Assessment Results

The WESP-AC datasheets summary scores for the assessed wetlands are included in Appendix B and include a numerically weighted score for functions and benefits of 21 wetland functions and other attributes. WESP-AC functional assessment applies a three-level categorical rating (i.e., Lower, Moderate or Higher) and is based on natural breaks in the statistical distribution of scores among the calibration wetlands for each function or benefit, determined objectively using a statistical procedure known as Jenks Optimisation (Jenks 1967).

WESP-AC guidance states that the primary focus should be upon the normalized function scores; however, normalised benefit scores are included as they include data associated with the context within which the associated function is being performed currently (e.g., they are influenced by current land uses). The following discussion includes a summary of the five grouped wetland functions considered by WESP-AC in the non-tidal calculator for wetland functional assessment. The normalized function ratings for grouped wetland functions for wetlands in the study area are summarized in Table 5. A summary report of the functional assessment results, including normalized benefit ratings for individual wetlands, are provided in Appendix B.

Table 5: Summary of Normalized Function Ratings for Grouped Wetland Functions

Wetland ID	Hydrologic Group	Water Quality Support	Aquatic Support	Aquatic Habitat	Transition Habitat
WL-1-2021	3.78	3.49	7.43	3.29	8.37
WL-2-2021	2.85	3.97	6.80	3.64	6.46
WL-3-2021	2.66	4.48	7.35	3.86	7.44
WL-4-2021	9.38	8.34	5.66	1.90	7.11
WL-5-2021	2.94	3.37	6.38	3.54	6.52
WL-6-2021	3.72	3.51	6.70	2.65	6.90
WL-8-2021	2.97	3.56	7.06	4.01	7.50
WL-9-2021	4.27	4.33	6.98	1.36	5.81
WL-11-2021	4.86	5.41	8.05	3.35	8.02
WL-12-2021	3.21	3.72	7.22	3.14	7.84
WL-13-2021	3.62	4.07	7.90	3.85	8.72
WL-14-2021	3.15	3.52	7.43	3.27	9.02
WL-15-2021	3.52	4.03	5.99	3.01	7.10
WL-16-2021	8.80	8.11	3.91	0.33	6.28
WL-17-2021	2.76	4.33	6.45	4.55	7.76
WL-1-2022	6.48	9.60	3.98	4.62	7.29
WL-2-2022	6.64	9.49	4.21	4.09	7.36
WL-3-2022	1.48	3.19	6.65	3.88	7.12
WL-4-2022	1.89	3.58	7.30	3.89	8.32

Wetland ID	Hydrologic Group	Water Quality Support	Aquatic Support	Aquatic Habitat	Transition Habitat
WL-5-2022	3.39	2.83	6.14	4.68	6.83
WL-6-2022	6.71	8.65	5.90	4.39	7.68
WL-7-2022	6.64	9.54	4.89	4.51	7.41
WL-8-2022	5.30	4.50	5.64	0.10	5.21
WL-9-2022	4.75	3.93	6.86	2.07	6.50
WL-10-2022	3.46	4.62	7.86	3.77	7.94
WL-11-2022	2.45	2.36	4.93	4.08	7.26
WL-12-2022	8.71	8.03	4.19	0.42	7.50
WL-13-2022	5.03	6.37	4.04	0.38	7.17
WL-14-2022	6.96	9.11	6.89	3.77	8.48
WL-15-2022	6.15	6.58	4.60	1.87	6.60
WL-16-2022	2.98	3.82	8.31	4.21	8.52
WL-17-2022	9.36	8.46	6.16	0.61	5.76
WL-18-2022	3.78	4.29	6.42	3.48	7.64
WL-19-2022	6.24	9.40	4.30	5.90	7.85
WL-20-2022	3.34	4.32	5.65	4.14	7.45
WL-21-2022	9.93	8.61	5.27	1.74	6.83
WL-22-2022	0.03	3.67	7.12	6.10	8.07
WL-23-2022	0.85	2.43	8.71	6.18	8.82
WL-24-2022	9.93	8.96	5.43	0.60	7.82
WL-25-2022	9.68	8.67	5.46	0.59	6.74
WL-26-2022	9.93	8.65	4.86	0.59	6.46
WL-27-2022	9.68	8.58	5.43	0.56	6.91
WL-28-2022	6.93	8.58	6.85	5.23	8.54
WL-29-2022	9.93	8.58	5.15	0.68	6.72
WL-30-2022	8.52	8.25	6.38	1.95	6.95
WL-31-2022	1.16	3.84	7.76	7.03	8.43
WL-32-2022	9.93	8.74	5.16	0.61	7.82
WL-33-2022	1.58	2.20	8.04	5.19	8.41
WL-34-2022	9.65	8.55	4.74	0.57	5.81
WL-35-2022	9.40	8.59	5.01	0.39	6.36
WL-36-2022	9.65	8.61	4.77	0.17	6.68
WL-37-2022	9.40	8.66	4.94	0.07	6.21
WL-38-2022	9.65	8.55	5.00	0.51	5.94
WL-39-2022	9.40	8.48	5.26	0.43	5.87
WL-40-2022	9.40	8.28	5.55	1.74	5.90
WL-41-2022	9.82	8.26	4.98	1.82	7.44
WL-42-2022	9.65	8.59	4.61	0.42	6.45

Wetland ID	Hydrologic Group	Water Quality Support	Aquatic Support	Aquatic Habitat	Transition Habitat
WL-43-2022	9.65	8.37	4.46	0.07	6.20
WL-44-2022	9.65	8.64	4.66	0.47	6.67
WL-45-2022	2.70	3.64	7.95	5.09	8.59
WL-46-2022	1.28	2.19	8.07	5.45	7.90
WL-47-2022	9.40	8.08	5.22	1.30	6.32
WL-48-2022	0.85	3.39	7.42	5.03	7.88
WL-49-2022	9.38	8.45	4.37	0.00	6.28
WL-50-2022	0.06	3.34	8.51	5.59	8.41
WL-52-2022	1.69	3.35	8.07	4.58	7.97
WL-53-2022	8.12	7.70	5.93	1.63	5.63
WL-54-2022	9.38	8.60	4.36	0.30	5.50
WL-55-2022	9.65	8.59	5.25	0.50	7.35
WL-56-2022	6.93	9.21	6.92	5.94	7.74
WL-57-2022	8.44	7.84	6.53	1.53	7.67
WL-58-2022	9.35	8.43	4.46	0.41	6.40
WL-59-2022	1.48	3.68	8.83	6.82	9.27
WL-60-2022	6.59	9.24	6.31	3.93	8.11
WL-61-2022	6.66	8.44	8.04	6.18	8.97
WL-62-2022	1.22	3.24	8.43	6.54	8.88
WL-63-2022	1.14	3.64	8.60	6.67	9.01

Notes:
The higher the score between 1 and 10, the higher the wetland function.
Bold = Normalized Benefits Rating of "Higher"

Lower	Moderate	Higher

Grouped functions with values in orange and bold in Table 5 have a "higher" wetland normalized function and benefit scores based on the WESP-AC functional assessment conducted in 2022. Based on the data in Table 5, the following can be summarized:

- Two wetlands (WL-12-2022 and WL-30-2022) were assessed a higher function for the Hydrologic Function group;
- One wetland (WL-60-2022) was assessed as having a higher function for the Water Quality Support function group;
- Seven wetlands (WL-22-2022, WL-23-2022, WL-31-2022, WL-50/51-2022 WL-59-2022, WL-62-2022 and WL-63/64-2022) were assessed as having a higher function for the Aquatic Support function group;
- Two wetlands (WL-31-2022 and WL-59-2022) were assessed as having a higher function for the Aquatic Habitat function group; and

- 19 wetlands (WL-1-2022, WL-2-2022, WL-4-2022, WL-5-2022, WL-6-2022, WL-7-2022, WL-24-2022, WL-27-2022, WL-28-2022, WL-31-2022, WL-32-2022, WL-33-2022, WL-41-2022, WL-52-2022, WL-55-2022, WL-56-2022, WL-57-2022, WL-59-2022 and WL-60-2022) were assessed as having a higher function for the Transition Habitat function group.

5.3.1 Hydrologic Functions

The hydrologic function of a wetland is defined by a wetland's contribution to ground and surface water resources. Although many non-tidal wetlands in Atlantic Canada perform important function for water storage and delay, WESP-AC assessment gives higher scores to wetlands with the capability to store or delay the downslope movement of surface water (e.g., wetlands that do not have surface water outlets) (NBDELG 2018). Two wetlands within the LAA have a function and benefits ranking of "higher" based on their normalized scores (i.e., WL-12-2022 and WL-30-2022). WL-12-2022 is a bog and mixed-wood treed swamp complex that is adjacent to an existing access road that may require upgrades and infilling. WL-30-2022 is a mixedwood treed swamp located adjacent to a proposed access road and collector line.

5.3.2 Water Quality Support Group

The water quality support group is defined as a wetland's contribution to the quality of surface and groundwater of an area. This group considers the following four functions:

- Sediment retention and stabilization;
- Phosphorus retention;
- Nitrate removal; and
- Carbon sequestration.

Similar to the hydrologic group, wetlands with higher function scores typically do not have a surface water outlet and instead are isolated from flowing surface water. One wetland within the LAA had a function and benefits ranking of "higher" based on the normalized scores (i.e., WL-60-2022). WL-60-2022 is a shrub swamp with several lobes that were partially separated by the existing access road. The access road that partially divides the lobes of WL-60-2022 may require upgrades and infilling to be used as access road with a collector line.

Of the functions that are considered for the water quality support group, WL-60-2022 had the high function and benefits rankings for nitrate removal and retention. The wetland also had higher scores for both sedimentation retention and stabilization, as well as phosphorous retention; however, the benefits were ranked as moderate. In addition to water quality support functions, WL-60-2022 also had high function and benefits scores for functions related to transition habitats, discussed below.

5.3.3 Aquatic Support Group

The aquatic support function of a wetland determines a wetland's ability to support ecological stream functions that promote habitat health. This group considers the following four functions:

- Stream flow support (SFS);
- Aquatic invertebrate habitat (INV);
- Organic nutrient export (OE); and
- Water cooling (WC).

Overall, the wetlands within the LAA generally scored higher in functions related to aquatic support. WESP-AC rankings of "higher" for both the function and benefits in this group of functions were given to seven wetlands. Following a review and revisions of the Project layout, WL-59-2022 is not located within the PDA, the remaining six out of the seven wetlands have the potential to require alterations for the full development of the Project. These six wetlands (WL-22-2022, WL-23-2022, WL-31-2022, WL-50/51-2022, WL-62-2022 and WL-63/64-2022) all are considered to function highly for organic nutrient export, and one wetland (WL-23-2022) had "higher" function and benefits ratings for all functions within the aquatic support group of functions. Additionally, two wetlands (i.e., WL-62-2022 and WL-63/34-2022) had "higher" function and benefits rankings for providing aquatic invertebrate habitat and preforming water-cooling functions; and one wetland (i.e., WL-22-2022) had "higher" function and benefits rankings for providing stream flow support.

5.3.4 Aquatic Habitat Group

The aquatic habitat group is considers the following five different functions:

- Anadromous fish habitat;
- Resident fish habitat;
- Amphibian and turtle habitat;
- Waterbird feeding habitat; and
- Waterbird nesting habitat.

Wetlands with the highest functions within this group include those that are adjacent to or contain flowing water, including many of the assessed wetlands within the study area. Two wetlands within the LAA had a function and benefits ranking of "higher" based on the normalized scores (i.e., WL-31-2022 and WL-59-2022). In addition to aquatic habitat support functions, WL-31-2022 and WL-59-2022 also had "higher" function and benefits scores for functions related to aquatic support (discussed above) and transition habitats (discussed below).

No alterations will be required for WL-59-2022 and mitigation measures will be in place when working within 30 m of this wetland to prevent negative impacts as a result of Project activities (discussed below in Section 6).

WL-31-2022 is a complex with treed swamp and fen components and is divided by an existing access road. The wetland is a treed swamp to the north of the access road and a fen with swamp components to the south of the access road. The wetland becomes a fringe wetland in the vicinity of Bennett Lake, located further south of the PDA. The access road that divides the lobes of WL-31-2022 may require upgrades and infilling to be used as access road with a collector line.

Of the functions that are considered for the Aquatic Habitat group, WL-31-2022 had the "higher" function and benefits rankings for both feeding and nesting habitat for waterbirds. The wetland also had "higher" scores for both anadromous and resident fish habitat; however, the benefits were ranked as "moderate". A "lower" functional score was calculated for this wetland for providing amphibian and turtle habitat; however, it is noted that the scores are representative of habitat within the study area, which was predominately a shrub swamp. Potential suitable habitat for amphibians and turtles may be present farther south of the PDA where this wetland surrounds Bennet Lake (which was outside of the LAA).

5.3.5 Transition Habitat Group

The main function of the collective group is to evaluate the wetland's ability to support healthy habitat for birds, mammals, and native plants. The transition habitat group comprises three different functions:

- Songbird, raptor, and mammal habitat (SBM);
- Native plant habitat (PH); and
- Pollinator habitat (POL).

Overall, the wetlands within the LAA generally scored "higher" in functions related to transitional habitats. WESP-AC rankings of "higher" for both the function and benefits in this group of functions were given to 19 wetlands. Two of these wetlands (i.e., WL-2-2022 and WL-59-2022) are fully outside of the PDA. The following 17 wetlands have area within the PDA and have rankings of "higher" for performing function and benefits as transition habitats:

- WL-1-2022;
- WL-4-2022;
- WL-5-2022;
- WL-6-2022;
- WL-7-2022;
- WL-24-2022;
- WL-27-2022;
- WL-28-2022;
- WL-31-2022;
- WL-32-2022;
- WL-33-2022;
- WL-41-2022;

- WL-52-2022;
- WL-55-2022;
- WL-56-2022;
- WL-57-2022; and
- WL-60-2022.

5.4 Wetlands of Special Significance Results

Wetlands within the Study Area were evaluated for their potential for meeting the NSECC criteria of a WSS. The wetlands were evaluated for their potential of being considered a WSS in addition to functional assessment using the WESP-AC. Although the WESP-AC assessment includes an interpretation tool to classify WSS based on wetland functionality, it is recognized that the tool currently does not consider all aspects of WSS that are considered under the provincial Wetland Conservation Policy. The results of the WESP-AC WSS interpretation tool are included in Appendix B with the WESP-AC functional assessment summary for wetlands within the study area. Only one of the wetlands within the Study Area (i.e., WL-59-2022) was flagged as a WSS by the interpretation tool. WL-59-2022 is not within the PDA and will not be directly impacted by the Project.

Wetlands within the Study Area that received both a function and benefits score of higher for a function group (as discussed above in Section 5.3) or wetlands where a SAR or SoCC was observed during the biophysical assessments between 2021 and 2022 were flagged as potential WSS. Following the functional assessment of wetlands within the study area, the road layout for the project was reviewed and, where feasible, minor adjustments were made within the studied PDA to avoid wetlands. Following the review and minor revisions to the Project road layout, wetlands with the potential to be considered WSS that extend within areas proposed for alterations are identified below in Table 6. A summary of the potential alterations and estimated maximum area for direct impacts is also provided in Table 6 for those wetlands. It is worth noting that several of the wetlands are adjacent to existing forestry roads, with areas having been historically cleared or impacted by historical and ongoing site activities. WESP-AC data, for which the data summaries are provided in Appendix B, are available for regulatory and permitting authorities for consideration during the wetland alteration permitting process. NSECC will determine if the findings below deem any of these wetlands as WSS during the wetland alteration permitting process.

There are 21 wetlands with the potential to be classified as WSS that extend into the proposed footprint of the project. For the purposes of this assessment, a conservative assumed width of 20 m was applied to the Project roads to estimate the maximum wetland area to be altered for these wetlands. Up to 1.1 ha is the total area of the wetlands considered to be potential WSS that could be altered based on the current proposed layout for the Project. The maximum potential area to be altered of the wetlands discussed in Table 6 represents 2.3% of their total area (i.e., 50 ha). Where feasible, small alterations to the layout will be implemented during the civil design stage to avoid infilling wetlands. Collector lines will be spanned to the fullest extent possible by poles with approximate spans of 50 m to avoid

wetlands. When feasible, the collector lines will also be run immediately parallel to access road to minimize road clearing.

Table 6: Potential WSS Rationale and Proposed Alterations within the PDA

Wetland ID	Rationale for being potentially classified as a WSS	Maximum Wetland Area to be Altered (ha)	(%)	Potential Alterations or Effects of the PDA
WL-1-2022	High Transition Group Scores	0.02	3	Infilling to create access road with collector line
WL-4-2022	High Transition Group Scores A Chimney Swift was observed foraging over wetland July 7, 2022 at 1 pm. Observation made during the nesting season; however, wetland is unlikely to provide nesting habitat.	0.07	3	Infilling to create access road with collector line
WL-5-2022	High Transition Group Scores Common Nighthawk booming displays and calls 50 m from wetland July 8, 2022 at 9am (within nesting season).	0.06	21	Infilling to create an access road
WL-7-2022	High Transition Group Scores	0.02	6	Potential infilling to upgrade existing access road
WL-12-2022	High Hydrologic Group Score	0.10	6	Potential infilling to upgrade an existing access road
WL-22-2022	High Aquatic Support Scores SoCC birds, Canada Jay and Purple Finch, Observed Sept. 1, 2022 9am	0.002	1	Potential infilling to upgrade an existing access road
WL-23-2022	High Aquatic Support Scores	0.02	1.5	Potential infilling to upgrade an existing access road
WL-27-2022	High Transition Group Scores	0.01	10	Potential infilling to upgrade an existing access road
WL-28-2022	High Transition Group Scores	0.01	2	Potential infilling to upgrade an existing access road
WL-30-2022	High Hydrologic Group Scores	0.004	1	Infilling to create an access road
WL-31-2022	High Group Scores for Aquatic Support, Aquatic Habitat, Transition Habitat	0.08	< 1	Potential infilling to upgrade an existing access road
WL-32-2022	High Transition Group Scores	0.04	50	Potential infilling to upgrade an existing access road

Wetland ID	Rationale for being potentially classified as a WSS	Maximum Wetland Area to be Altered (ha) (%)		Potential Alterations or Effects of the PDA
WL-33-2022	High Transition Group Scores	0.07	2	Potential infilling to upgrade an existing access road
WL-41-2022	High Transition Group Scores	0.20	6	Potential infilling to upgrade an existing access road
WL-50-2022	High Aquatic Support Scores	0.06	2	Infilling to create an access road with collector lines
WL-52-2022	High Transition Group Scores	0.05	77	Infilling to create an access road and collector line.
WL-56-2022	High Transition Group Scores	0.04	19	Potential infilling to upgrade an existing access road
WL-57-2022	High Transition Group Scores	0.06	23	Potential infilling to upgrade an existing access road
WL-60-2022	High Group Scores: Water Quality Transition Habitat	0.04	6	Potential infilling to upgrade an existing access road
WL-62-2022	High Aquatic Support Scores	0.05	1	Infilling to create an access road with collector lines, a bridge or culvert may be required to span the watercourse that is likely to provide habitat for fish.
WL-63-2022	High Aquatic Support Scores	0.14	2	Potential infilling to upgrade an existing access road with collector lines. Bridges/culverts may require upgrades to maintain the watercourses within this wetland that are likely to provide habitat for fish.

5.5 Assessment Conclusions

As previously discussed, the Project layout was designed to attempt to minimize interactions with wetlands by using existing roads was prioritized to minimize impacts to undisturbed areas. It is noted that several of the wetlands are found adjacent to the existing forestry roads with pre-existing alterations from historical site activities. Within the PDA, 8.1 ha of wetlands were delineated, noting that the estimated maximum total area of alteration to wetlands is 3.6 ha. These wetlands included treed and shrub swamps with lesser areas of fens and wet meadows. For the wetlands that extend

within the PDA, the use of mitigation measures and careful selection of which locations are included in the final design will further reduce the area and number of wetlands with the potential to require alterations.

The WESP-AC wetland analysis indicated that, on average, wetlands within the study area have highest rankings for functions related to aquatic support (i.e., stream flow support, aquatic invertebrate habitat and organic nutrient export and water-cooling functions) and as transition habitats (i.e., songbird, raptor, and mammal habitat; native plant habitat; and pollinator habitat functions). Wetlands within the study area were evaluated for their potential for meeting the criteria of a WSS as defined within Nova Scotia's Wetland Conservation Policy (NSECC 2019). Further consultation and discussions with NSECC and NSDNRR will be requested for assessment of WSS status, permitting requests, and compensation measures.

The region of Nova Scotia where the Project is located has an abundance of wetlands. Based on the functional assessment, none of the wetlands with potential to be classified as WSS have unique functional and benefit roles. The wetlands delineated and assessed during this study have similar functions to one another and to other wetlands within the Hants County area. Because of previous anthropogenic activity on site, particularly from forestry, there is historical disturbance from roads and clearing practices. As it stands, this has not severely hindered the functions and benefits of wetlands in the Study Area.

6.0 Effects Assessment and Mitigation Recommendations

6.1 Identification of Project Interactions

Wetlands were assessed as a biophysical VEC because they perform many important ecological, social, and economic functions and services in landscapes (NSE 2019).

In addition to performing many ecologically important landscape functions, wetland ecosystems are typically some of the most productive ecosystems encountered in Nova Scotia (NSECC 2019). As such, in Nova Scotia (and elsewhere), many other VECs (e.g., SAR and SoCC, migratory birds and culturally significant flora and fauna) are hosted within wetland ecosystems. Loss or degradation of wetlands results in a loss or decrease in their ability to perform their ecosystem services and functions and a reduction in biodiversity (NSE 2019).

6.1.1 Approach to Project Components

The Project has three main distinct phases during each of which the potential interactions with the surrounding environment are considered distinct. Unplanned events are considered separately from the phases. The phases of the Project include:

1. Planning, Site Preparation, and Construction;
2. Operation; and
3. Decommissioning.

The Project interaction matrix in Table 7 is used as an initial screening to assist in determining if an interaction is possible between the activities being carried out in each phase of the Project and wetlands.

Table 7: Project Interactions with Environmental Components

Valued Environmental Component	Project Phases			
	Planning, Site Preparation and Construction Phase	Operation Phase	Decommissioning Phase	Unplanned Events
Wetlands	✓		✓	✓

Legend: ✓ = Potential interaction identified

Those Project phases for which a checkmark is provided indicates that the Project may interact with wetlands, and thus an environmental effects assessment is warranted. In this case, it is possible that

interactions could occur during the Planning, Site Preparation, and Construction Phase and the Decommissioning Phase, as well as unplanned events (including but not limited to accidents, malfunctions, and severe weather events), which are all discussed below.

6.1.2 Identification of Potential Environmental Effects

The proposed WTG locations and transmission/collector line poles are not predicted to directly interact with identified wetlands as none were delineated within the proposed footprint of these structures. As currently designed, the PDA has crossings of wetlands with linear infrastructure for access roads and collector lines. The access road and collector network utilize the existing access road network that is in place for current forestry operations and many of the crossing have existing culverts that will be maintained, negating the need for working within the watercourses; however, potential alterations (e.g., infilling) may be required for wetlands within the final layout of the Project.

In order to mitigate risk to wetlands, all WTGs will be set back at least 30 m from wetlands. During construction of the collector network, care will be taken to avoid wetlands as much as feasible, and all attempts will be made to span watercourses with poles. Best management practices for erosion and sediment control will be implemented to monitor potential impacts to wetlands. If wetland areas or function are affected, the Project will also adhere to the Nova Scotia Wetland Conservation Policy Mitigation Sequence to prevent the net loss of wetland area and function (NSE 2019). As described in the Nova Scotia Wetland Conservation Policy, monitoring and an adaptive approach are essential for the following three sequence stages to ensure net loss is prevented:

a) Avoidance of adverse effects;
b) Minimization of unavoidable adverse effects; and
c) Compensation for adverse effects that cannot be avoided (NSE 2019).

The goals of this policy are taken in to account in the continuous planning of the Project in conjunction with all other site considerations. Further consultation and discussions with NSECC and NSDNRR will be requested for assessment of WSS status, permitting requests, and compensation measures. Overall, transitioning to renewable energy will help reduce the effects of climate change. This may have a positive impact on the long-term population growth and viability of wetlands and the ecosystems they support in Nova Scotia.

Although direct impacts to wetlands are minimized as much as feasible in the siting phase, some minor infilling will likely be required for certain wetlands adjacent to existing forestry roads. A change in wetland size and/or function could occur during the construction of access roads or site restoration in the areas of the wetlands that may require clearing. This could alter the vegetation, increase erosion rates or alter natural drainage patterns in proximity to the aquatic receptors and/or alter the functions of a wetland. Loss of wetland area or function (i.e., hydrological regime, habitat and water quality maintenance) could occur due to the clearing of trees and vegetation within the wetlands.

Information gathered on wetlands within the Wetland LAA during the preliminary wetland assessment is outlined in Section 5.

6.1.3 Standard Mitigation of Potential Environmental Effects

Standard mitigation has been identified for the anticipated interaction and/or effect in relation to wetlands in an attempt to prevent the interaction from occurring if possible, or to reduce the magnitude, geographic extent, frequency, duration, reversibility, or ecological/socioeconomic context of the interaction. Best management practices (based on industry guidelines and regulatory guidance documents) have been proposed as mitigation measures. In addition, several acts, codes, regulations, and guidelines may require appropriate actions to be conducted as mitigation measures prior to or during the interaction.

The federal and provincial legislation and codes that could apply to the Project include (but may not be limited to):

- *Canadian Environmental Protection Act* and regulations (ECC 1999);
- *Species at Risk Act* (ECCC 2002);
- *Transportation of Dangerous Goods Act*, and regulations (TC 1992);
- Nova Scotia *Environment Act* and regulations (NSECC 1994-95);
- Nova Scotia *Water Resources Protection Act*, and regulations (NSECC 2000);
- Nova Scotia *Endangered Species Act*, and regulations (NSECC 1998a);
- Nova Scotia *Wilderness Areas Protection Act*, and regulations (NSECC 1998b); and
- Contingency Planning Guidelines (NSECC 2021).

To further reduce the likelihood of interactions between any phases of the Project wetlands, the mitigation measures, summarized below in Table 8 will be followed.

Table 8: Potential Interactions and Proposed Mitigation for Wetlands

Potential Interactions with Wetlands	Proposed Mitigation Measures
During the construction phase, Project activities, such as clearing, grubbing, infilling, and excavation, have the potential to directly impact wetlands. Such activities have the potential to induce silt run-off, alter flow into the wetlands or see them become repositories of significantly increased water flow, nutrients or sediments.	1. Avoiding work within 30 m of wetlands to the extent feasible; 2. Where avoidance is not possible, disturbances will be minimized as much as feasible (i.e., limited to the area which is required to accomplish the Project objectives); 3. A wetland alteration approval will be applied for and obtained for work in any wetland, noting that work within wetlands will be avoided or minimized to the extent possible during the Project design phase;

Potential Interactions with Wetlands	Proposed Mitigation Measures
Total loss of wetlands or a portion of wetlands within the footprint of new roads and infrastructure which may impact the interconnectivity of adjacent wetlands within the same watershed.	4. Wetlands will be visually delineated (i.e., flagged) and all workers on site will be familiarized with impact-minimizing activities around them; 5. Appropriate sediment erosion and run-off control measures (e.g. silt fencing, hay bales) will be implemented following best management practices; 6. Natural regeneration of the site will be promoted to aid in storm water retention and reduce run-off; 7. Compensation for net loss of wetland function; and 8. Proper wetland protection and erosion and sediment control measures following the Environmental Management and Protection Plan (Appendix O) will be installed and checked regularly during the construction phase and prior to, and after, storm events to ensure they are continuing to operate properly to minimize potential effects to adjacent habitat. <u>Mitigation Measures for Unplanned Events</u> 1. Chemicals and petroleum products will be managed in accordance to manufacturer specifications and stored more than 30 m from a watercourse or wetland; 2. No stockpiling of materials will occur within 30 m of a wetland; 3. Vehicle traffic in the wetlands will be minimized by using alternate techniques (e.g. hand cutting vegetation) where possible; 4. Equipment shall be kept in good working order and maintained so as to reduce risk of spills/leaks and to avoid water contamination; 5. Mats and other means to avoid disruption of the wetlands will be used during necessary tree clearing; 6. Wetlands within the PDA of collector or transmission lines will be spanned with electrical poles where possible where feasible;

Potential Interactions with Wetlands	Proposed Mitigation Measures
	7. No refueling of equipment will occur within 30 m of a wetland; 8. Frequent inspection of equipment will ensure fluids do not leak into wetlands; 9. Spill response kits must be readily available for each piece of equipment, on site workers are required be knowledgeable on emergency spill response protocols and initiate corrective measures immediately to minimise any impacts to the surrounding environment; 10. Refueling, oiling, and maintenance of equipment will be completed in specifically designated areas located at least 30 m away from any watercourse, wetland, or well to minimize potential effects that could arise in the event of a spill; 11. If contaminated soil is encountered, it will be reported to NSE and managed utilizing the Nova Scotia Contaminated Site Regulations; and 12. Avoid work during storm events.

Throughout the wetland alteration permitting process, a post-construction monitoring program and compensation plan for wetlands will be developed in consultation with Nova Scotia Department of Natural Resources and Renewables (NSDNRR) and implemented following approval.

6.2 Residual Environmental Effects

A residual environmental effect is an environmental effect of a project that remains, or is predicted to remain, after mitigation measures have been implemented (GOC 2022). The Project will be developed in such a way as to avoid wetlands, minimize disturbance to wetlands where avoidance is not possible, and minimize the area of disturbance within the Project site. Avoidance through site design has been completed to the extent possible (i.e., avoiding wetlands where possible, spanning wetlands using overhead collection lines, and use of existing roads). In addition, following the construction and decommissioning phases of the Project, natural revegetation with native species will be promoted in consultation with the landowners to minimize the potential for habitat loss and invasive species spread. Given current knowledge as informed by the desktop assessment, biophysical assessments, and previous site activities, significant potential impacts to wetlands are not anticipated as a direct result of the Project with the appropriate implementation of the mitigation measures presented and with wetland compensation for unavoidable net loss of wetland function.

In consideration of the above and planned mitigation, the residual environmental effects of the Project on wetlands during all phases including unplanned events are anticipated to be significant.

6.3 Characterization of Cumulative Environmental Effects

Cumulative effects are changes to the environment that are caused by an action in combination with other past, present and future human actions (GoC 2022). Specific to the nature of the undertaking, cumulative effects are combined impacts that may occur when wind power projects or other types of projects are located in the same region (NSECC 2021).

Nearby wind energy projects to the proposed Project include the South Canoe Lake Wind Energy Project, the Martock Ridge Wind Project, and the Ellershouse Wind Project. The South Canoe Lake Wind Energy Project is a 34-turbine project located approximately 8 km south-southwest of the Project. The Martock Ridge Wind Project (3 turbines) and the Ellershouse Wind Project (10 turbines) are located 8.6 km and 16 km east-northeast of the Project, respectively. The distances between these projects and the Project (i.e., outside of the LAAs for all VECs) suggests the potential for interaction between the residual effects of the combined projects is low (i.e., no spatial overlap). Regional level impacts are unlikely, provided that highly sensitive or rare habitats, as well as concentration areas for species at risk, have been avoided by this Project.

As discussed above, a portion of the PDA is located within privately-owned lands that have undergone several generations of wood harvesting and have a network of existing forestry roads. A smaller portion of the PDA is located within Crown lands which are largely undisturbed with few existing roads across the property. The WESP-AC functional assessment considered existing stressors on the assessed wetlands. Existing stressors affect the degree to which the wetland is or has recently been altered by, or exposed to risk from, human-related factors that degrade its ecological condition and/or reduce its capacity to perform one or more of the functions listed in this document (Adamus 2018). Without mitigation measures, cumulative effects to wetlands could occur as a result of:

- Contributing to a change in the aberrant timing of water inputs through the addition road fill within or downgradient from the wetland that interferes with surface or subsurface flow in/out of the wetlands or the ditching of tributary channels. Contributing sediment loading from the contributing area caused by erosion from timber harvest, dirt roads and vegetation clearing.
- Contributing to existing soil or sediment alteration within the wetland by building or modifying access roads that are not graded to the natural contour.

The above mitigation measures minimize contributions to cumulative effects through the minimization of impacts to undisturbed habitats, and effective mitigation measures to manage further impacts to wetlands and biophysical VECs that rely on them as habitat. The above mitigation measures were carefully developed to prevent residual impacts to wetlands as a result of the Project. Therefore, in consideration of the above and planned mitigation, the residual cumulative environmental effects of the Project in combination with past, present, or reasonably foreseeable projects or activities on wetlands during the phases including unplanned events are not anticipated to be significant.

7.0 Summary and Conclusion

This report has been prepared as part of the Addendum to the Benjamins Mills Wind Project. The Project EARD. The Project is expected to provide renewable electricity to Nova Scotia and support Nova Scotia Power in attaining their future renewable energy targets.

The information provided in this document is based on the current available design/planning information and existing environment information obtained during focused field surveys conducted throughout 2021 and 2022. Based on the results of the desktop and field surveys for wetlands, it was concluded that the potential for impact on wetlands within the Potential Development Area is low. In order to further mitigate risk to wetlands during the Project phases, there will be a concerted effort to use existing corridors found on site, to limit overstory removal, and apply industry best practices and the use to stringent mitigation measures and monitoring.

8.0 Closure

This report was prepared by Dillon Consulting Limited (Dillon) for Natural Forces Developments Limited Partnership (the Proponent) on behalf of the Benjamins Mill Wind Limited Partnership, in support of the Benjamins Mill Wind Project Addendum (2022). Dillon has used the degree of care and skill ordinarily exercised under similar circumstances at the time the work was performed by reputable members of the environmental consulting profession practicing in Canada. Dillon assumes no responsibility for conditions which were beyond its scope of work. There is no warranty expressed or implied by Dillon.

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9.0 References

Adamus, P.R. 2018. Wetland Ecosystem Services Protocol for Atlantic Canada (WESP-AC). Calculator spreadsheet and manual. New Brunswick Department of Environment and Local Government, Government of New Brunswick, Fredericton, NB.

ECCC (Environment and Climate Change Canada). 1999. Canadian Environmental Protection Act (S.C. 1999, c. 33) Available at: https://laws-lois.justice.gc.ca/eng/acts/c-15.31/#:~:text=Canadian%20Environmental%20Protection%20Act%2C%201999

ECCC (Environment and Climate Change Canada). 2002. Species at Risk Act (S.C. 2002, c. 29). Available at: https://laws.justice.gc.ca/eng/acts/s-15.3/

Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.

GOC (Government of Canada). 1991. The Federal Policy on Wetland Conservation. Available at: https://nawcc.wetlandnetwork.ca/Federal%20Policy%20on%20Wetland%20Conservation.pdf

GOC (Government of Canada). 2022. Technical Guidance for Determining Whether a Designated Project is Likely to Cause Significant Adverse Environmental Effects under the Canadian Environmental Assessment Act, 2012. Available at: https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/determining-project-cause-significant-environmental-effects-ceaa2012.html

National Wetlands Working Group. 1997. The Canadian Wetland Classification System, 2nd Edition. Warner, B.G. and C.D.A. Rubec (eds.), Wetlands Research Centre, University of Waterloo, Waterloo, ON, Canada. 68 p.

NBDELG (New Brunswick Department of Environment and Local Government). 2018. Manual for Wetland Ecosystem Services Protocol for Atlantic Canada (WESP-AC): Non-tidal Wetlands. Available at: https://novascotia.ca/nse/wetland/wetland.links.asp

NSG (Nova Scotia Department of Natural Resources). 1994-95. Environment Act (c. 1, s. 1). Available at: https://nslegislature.ca/sites/default/files/legc/statutes/environment.pdf

NSG (Nova Scotia Department of Natural Resources). 1998a. Endangered Species Act. Available at: https://nslegislature.ca/legc/bills/57th_1st/3rd_read/b065.htm

NSG (Nova Scotia Department of Natural Resources). 1998b. Wilderness Areas Protection Act (c. 27). Available at: https://nslegislature.ca/sites/default/files/legc/statutes/wilderness%20areas%20protection.pdf

NSG (Nova Scotia Department of Natural Resources). 2000. Water Resources Protection Act (c. 10, s. 1). Available at: https://nslegislature.ca/sites/default/files/legc/statutes/waterres.htm

NSECC (Nova Scotia Environment and Climate Change). 2021. Guide to Preparing an EA Registration Document for Wind Power Projects in Nova Scotia. Policy Division, Environmental Assessment Branch. Retrieved from Government of Nova Scotia: https://www.novascotia.ca/nse/ea/docs/EA.Guide-Proponents-WindPowerProjects.pdf. Accessed December 2021.

NSDNRR (Nova Scotia Department of Natural Resources and Renewables). 2021. Provincial Landscape Viewer. Available at: https://nsgi.novascotia.ca/plv/

NSECC (Nova Scotia Environment and Climate Change). 2019. Nova Scotia Wetland Conservation Policy. Retrieved from Government of Nova Scotia: https://novascotia.ca/nse/wetland/docs/Nova.Scotia.Wetland.Conservation.Policy.pdf. Accessed January 2022.

NSECC (Nova Scotia Environment and Climate Change). 2018. A Proponent's Guide to Environmental Assessment. Policy Division, Environmental Assessment Branch. iii + 38 pp.

NSECC (Nova Scotia Environment and Climate Change). 2022. Delineating Wetland Boundaries, Wetland Delineation Resources for Professional Wetland Specialists. Available at: https://novascotia.ca/nse/wetland/delineating.wetland.boundaries.asp

Nova Scotia Natural Resources and Renewables [NSDLF]. 2021. Wetlands Inventory. Retrieved from Government of Nova Scotia: https://novascotia.ca/natr/wildlife/habitats/wetlands.asp. Accessed August 2022.

TC (Transport Canada). 1992. Transportation of Dangerous Goods Act (S.C. 1992, c. 34). Available at: https://lois-laws.justice.gc.ca/eng/acts/T-19.01

USACE (United States Army Corps of Engineers). 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Draft), ed. J.S. Wakely, R.W. Lichvar and C.V. Noble. Vicksburg, MS: US Army Engineer Research and Development Center.

Appendix A

Wetland Fact Sheets

DILLON CONSULTING

WL-1-2021 – Hardwood Treed Swamp

Approximate total area: 0.07 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-1-2021 were saturated at 0 cm and the water table was approximately 20 cm below the surface. Other indicators of wetland hydrology included aquatic fauna, water-stained leaves and drainage patterns.

Vegetation Profile of WL-1-2021

Stratum	Plant Species
Tree	sugar maple (*Acer saccharum*), red maple (*Acer rubrum*), yellow birch (*Betula allaghensis*)
Sapling/Shrub	mountain maple (*Acer spicatum*), yellow birch, white ash (*Fraxinus americana*), sugar maple, beaked hazelnut (*Corylus cornuta*), mountain holly (*Ilex mucronata*), black spruce (*Picea mariana*)
Herb	sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmundastrum cinnamomeum*), whorled wood aster (*Oclemena acuminata*), northern beech fern (*Phegopteris connectilis*)

Soil Profile of WL-1-2021

Depth	Matrix	Redox Features	Texture
0-35 cm	10 YR 2/1	N/A	mix of humic, organic and silt.
35 cm +	restrictive layer	N/A	bedrock



WL-2-2021 – Hardwood Treed Swamp

Approximate total area: 0.17 ha
Delineated: August 4, 2022
Hydrological Features: Soils present in WL-2-2021 were saturated. Other indicators of wetland hydrology included unvegetated concave depressions, water stained leaves and drainage patterns.

Vegetation Profile of WL-2-2021

Stratum	Plant Species
Tree	red maple, white ash
Sapling/Shrub	red maple, white meadowsweet (*Spiraea alba*), speckled alder (*Alnus incana*),
Herb	sensitive fern, cinnamon fern, royal fern (*Osmunda regalis*), interrupted fern (*Claytosmunda claytoniana*), bluejoint reed grass (*Calamagrostis canadensis*), nodding sedge (*Carex gynandra*), fowl manna grass (*Glyceria striata*)

Soil Profile of WL-2-2021

Depth	Matrix	Redox Features	Texture
15-0 cm	N/A	N/A	decomposing organics/peat
0-5 cm	N/A	N/A	silty clay (100%) mixed with organics
5 cm +	restrictive layer	N/A	bedrock

WL-3-2021 – Shrub Swamp

Approximate total area: 0.30 ha
Delineated: August 4, 2022
Hydrological Features: Organic material present in WL-3-2021 were saturated. Other indicators of wetland hydrology included unvegetated concave depressions, water stained leaves and drainage patterns.

Vegetation Profile of WL-3-2021

Stratum	Plant Species
Tree	red maple
Sapling/Shrub	red maple, speckled alder, gray birch (*Betula populifolia*), steeplebush (*Spiraea tomentosa*), black spruce
Herb	common woolly bulrush (*Scirpus cyperinus*), bluejoint reed grass, common marsh bedstraw (*Galium palustre*), cinnamon fern

Soil Profile of WL-3-2021

Depth	Matrix	Redox Features	Texture
20-0 cm	N/A	N/A	100% sphagnum/peat
0 cm +	restrictive layer	N/A	rock

WL-4-2021 – Shrub Swamp (with mixedwood tree canopy)

Approximate total area: 2.20 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-4-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, drainage patterns and high-water table (at 30 cm).

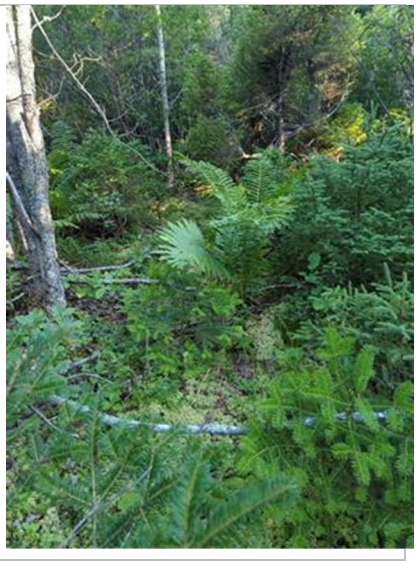
Vegetation Profile of WL-4-2021

Stratum	Plant Species
Tree	red maple, black spruce, balsam fir
Sapling/Shrub	northern wild raisin (*Viburnum cassinoides*), balsam fir, black spruce, red maple, mountain holly, common winterberry (*Ilex verticillata*), speckled alder, sheep laurel (*Kalmia angustifolia*)
Herb	cinnamon fern, wild sarsaparilla (*Aralia nudicaulis*), three-leaved false Solomon's seal (*Maianthemum trifolium*), bunchberry (*Cornus canadensis*), three-seeded sedge (*Carex trisperma*)

Soil Profile of WL-4-2021

Depth	Matrix	Redox Features	Texture
+5 cm – 0	N/A	N/A	decomposing organics
0-130 cm	histosol	N/A	humic texture





WL-5-2021 – Hardwood Treed Swamp

Approximate total area: 0.36 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-5-2021 were saturated at the surface (saturated at 5 cm). Other indicators of wetland hydrology included water stained leaves, stilted trees, aquatic fauna, drainage patterns and high-water table (at 30 cm).

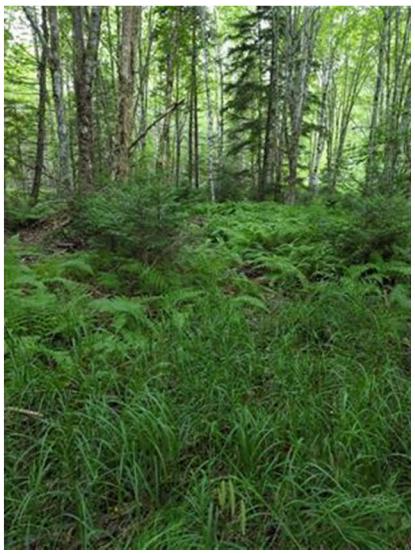
Vegetation Profile of WL-5-2021

Stratum	Plant Species
Tree	yellow birch, red maple, paper birch (Betula papyrifera)
Sapling/Shrub	balsam fir (*Abies balsamea*), red spruce (*Picea rubens*), yellow birch
Herb	nodding sedge, fowl manna grass, northern starflower (*Lysimachia borealis*), rough-stemmed goldenrod (*Solidago rugosa*)

Soil Profile of WL-5-2021

Depth	Matrix	Redox Features	Texture
+5 cm – 0	N/A	N/A	decomposing organics
0-20 cm	4.5 YR 3/2	2.5 YR 5/8 3%	silt loam
20-50 cm	histosol	N/A	mesic/fibric texture
50 cm	restrictive layer	N/A	gravel





WL-6-2021 – Mixedwood Treed Swamp

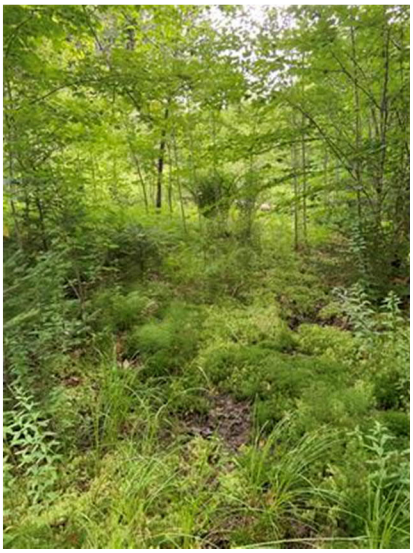
Delineated total area: 0.37 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-6/7-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, water stained leaves, bare un-vegetated areas, drainage patterns, high water table (at 0 cm), standing water and ponded areas.

Vegetation Profile of WL-6/7-2021

Stratum	Plant Species
Tree	yellow birch, red maple
Sapling/Shrub	yellow birch, red maple, balsam fir
Herb	common woolly bulrush, bluejoint reed grass, common marsh bedstraw, willowherb species (epilobium sp.), crested wood fern (*Dryopteris cristata*), club spur orchid (*Platanthera clavellata*)

Soil Profile of WL-6/7-2021

Depth	Matrix	Redox Features	Texture
20-0 cm	N/A	N/A	sphagnum/peat/decomposing organics
0-13 cm	N/A	gleying	100% gleyed silty sand
13 cm +	restrictive layer	N/A	rock


Photos of AA WL-7-2021


Photos of AA WL-6-2021

WL-8-2021 – Hardwood Treed Swamp

Approximate total area: 1.01 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-8-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, water stained leaves, drainage patterns, high water table (at 10 cm) and standing water.

Vegetation Profile of WL-8-2021

Stratum	Plant Species
Tree	red maple, balsam fir, black spruce, yellow birch
Sapling/Shrub	speckled alder, balsam fir, black spruce, yellow birch, red maple
Herb	fowl manna grass, sensitive fern, wood fern species (*dryopteris* sp.), crested wood fern, cinnamon fern

Soil Profile of WL-8-2021

Depth	Matrix	Redox Features	Texture
0-100 cm	histosol	N/A	humic texture
100 cm	restrictive layer	N/A	bedrock

WL-9-2021 – Shrub Swamp/Fen

Approximate total area: 6.07 ha
Delineated: August 3, 2022

WL-9/10-2021 intersects the PDA at two locations, both assessment areas (AA) were included in the assessment of this large wetlands. The AA to the south has fen characteristics and the AA to the north was a shrub swamp.

AA WL-9-2021 – Fen

Hydrological Features: The soil conditions in WL-9-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, unvegetated concave surfaces, strong sulphur smell, drainage patterns and high-water table (at 0 cm).

Vegetation Profile of WL-9-2021

Stratum	Plant Species
Tree	gray birch, black spruce, red maple
Sapling/Shrub	gray birch, speckled alder, red maple, red maple, steeplebush, tamarack (*Larix laricina*)
Herb	common marsh bedstraw, northern water horehound (*Lycopus uniflorus*), club spur orchid, Canada manna grass (*Glyceria canadensis*), common marsh bedstraw, Virginia St. John's-wort (*Hypericum virginicum*), bluejoint reed grass, nodding sedge, willowherb species (*epilobium* sp.), common boneset (*Eupatorium perfoliatum*), common woolly bulrush

Soil Profile of WL-9-2021

Depth	Matrix	Redox Features	Texture
66-0 cm	N/A	N/A	sphagnum/peat/decomposing organics
66 cm +	restrictive layer	N/A	bedrock

Photos of AA WL-9-2021 (August 3, 2022)

AA: WL-10-2021

Hydrological Features: The soil conditions in WL-10-2021 were saturated near the surface (saturated at 20 cm). Other indicators of wetland hydrology included water stained leaves and drainage patterns.

Vegetation Profile of WL-10-2021

Stratum	Plant Species
Tree	red maple, gray birch, black cherry (Prunus serotina)
Sapling/Shrub	speckled alder, white ash
Herb	spotted jewelweed (*Impatiens capensis*), fern species (*dryopteris* sp.), fowl manna grass

Soil Profile of WL-10-2021

Depth	Matrix	Redox Features	Texture
0-25 cm	7.5 YR 4/4	5 YR 5/8 redox 10%	clay loam
25 cm	restrictive layer	N/A	bedrock

Photos of AA WL-10-2021 (August 3, 2022)

WL-11-2021 – Shrub Swamp

Approximate total area: 3.09 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-11-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, high water table (30 cm), and standing water.

Vegetation Profile of WL-11-2021

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	yellow birch, mountain holly, northern wild raisin, American white ash (*Sorbus americana*), black spruce, balsam fir, velvet-leaved blueberry (*Vaccinium myrtilloides)*, sheep laurel
Herb	common woolly bulrush, bunchberry, cinnamon fern, tawny cottongrass (*Eriophorum virginicum*)

Soil Profile of WL-11-2021

Depth	Matrix	Redox Features	Texture
0-25 cm	histosol	N/A	fibric texture
25 cm	restrictive layer	N/A	rock



WL-12-2021 – Shrub Swamp

Approximate total area: 4.03 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-12-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves and drainage patterns.

Vegetation Profile of WL-12-2021

Stratum	Plant Species
Tree	yellow birch
Sapling/Shrub	speckled alder, yellow birch, balsam fir
Herb	red raspberry (*Rubus idaeus*), dwarf red raspberry (*Rubus pubescens*), whorled wood aster, bristly dewberry (*Rubus hispidus*), fowl manna grass, manna grass species (*glyceria* sp.)

Soil Profile of WL-12-2021

Depth	Matrix	Redox Features	Texture
5-0 cm	N/A	N/A	decomposing organics
0-15 cm	5 YR 2.5/1	N/A	sandy loam



WL-13-2021 – Mixedwood Treed Swamp

Approximate total area: 1.15 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-13-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included strong sulphur smell, high water table (5 cm), water stained leaves and drainage patterns.

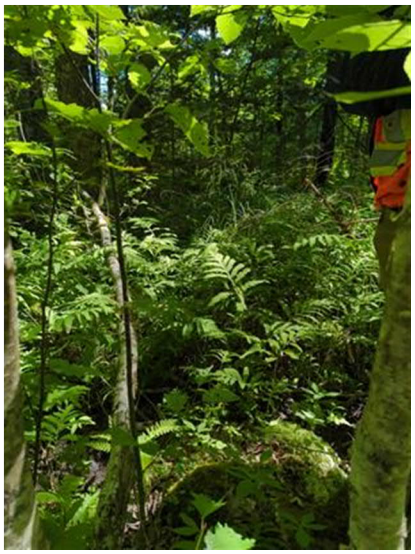
Vegetation Profile of WL-13-2021

Stratum	Plant Species
Tree	yellow birch, black spruce, balsam fir, red maple
Sapling/Shrub	speckled alder, balsam fir, yellow birch, elderberry species (*sambucas* sp.)
Herb	sensitive fern, fowl manna grass, dwarf red raspberry, whorled wood aster, goldthread (*Coptis trifolia*), wild lily-of-the-valley (*Maianthemum canadense*), three-seeded sedge

Soil Profile of WL-13-2021

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	mesic texture
20 cm	restrictive layer	N/A	rock





WL-14-2021 – Mixedwood Treed Swamp

Approximate total area: 2.55 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-14-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included high water table (30 cm) and water stained leaves.

Vegetation Profile of WL-14-2021

Stratum	Plant Species
Tree	red maple, yellow birch, balsam fir, black spruce
Sapling/Shrub	white ash, balsam fir, speckled alder, red maple
Herb	sensitive fern, cinnamon fern, wild sarsaparilla, wild lily-of-the-valley, dwarf red raspberry, three-seeded sedge

Soil Profile of WL-14-2021

Depth	Matrix	Redox Features	Texture
5-0 cm	N/A	N/A	decomposing organics
0-130 cm	histosol	N/A	mesic texture



WL-15-2021 – Shrub Swamp

Approximate total area: 1.31 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-15-2021 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, unvegetated concave depressions and water stained leaves.

Vegetation Profile of WL-15-2021

Stratum	Plant Species
Tree	--
Sapling/Shrub	gray birch, speckled alder, red maple, northern wild raisin, velvet-leaved blueberry, European red currant (*Ribes rubrum*)
Herb	sensitive fern, bluejoint reed grass, rough-stemmed goldenrod, dwarf red raspberry, bristly dewberry, cinnamon fern

Soil Profile of WL-15-2021

Depth	Matrix	Redox Features	Texture
8-0 cm	N/A	N/A	decomposing organics
0-13 cm	dark brown 100%	N/A	silty clay with organic material mixed in
13 cm +	restrictive layer	N/A	bedrock



WL-16-2021 – Bog

Approximate total area: 0.42 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-16-2021 were saturated. Other indicators of wetland hydrology included high water table (2-5 cm below surface) and high sphagnum content.

Vegetation Profile of WL-16-2021

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	mountain holly, red maple, black spruce, sheep laurel
Herb	Canada manna grass, tawny cottongrass, three-way sedge (*Dulichium arundinaceum*), Virginia St. John's-wort, willowherb species (*epilobium* sp.), round-leaved sundew (*Drosera rotundifolia*), boreal bog sedge (*Carex magellanica*), three-leaved false Solomon's seal, Pickering's reed grass (*Calamagrostis pickeringii*)

Soil Profile of WL-16-2021

Depth	Matrix	Redox Features	Texture
48-0 cm	N/A	N/A	sphagnum/peat

WL-17-2021 – Bog

Approximate total area: 0.05 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-17-2021 were saturated. Other indicators of wetland hydrology included high water table (2-5 cm below surface) and high sphagnum content.

Vegetation Profile of WL-17-2021

Stratum	Plant Species
Tree	spruce species (picea sp.), Eastern white pine (*Pinus strobus*)
Sapling/Shrub	red maple, black spruce, mountain holly, northern wild raisin, sheep laurel, willow species (*salix* sp.)
Herb	common woolly bulrush, bunchberry

Soil Profile of WL-17-2021

Depth	Matrix	Redox Features	Texture
5-0 cm	N/A	N/A	undecomposed organics
0-15 cm	histosol	N/A	fibric texture
15 cm	restrictive layer	N/A	bedrock



WL-1-2022 – Bog

Approximate total area: 0.70 ha
Delineated: July 7, 2022
Hydrological Features: Organic material present in WL-1-2022 were saturated. Other indicators of wetland hydrology included aquatic fauna, 10 cm of standing water, high water table at surface, and saturated soils.

Vegetation Profile of WL-1-2022

Stratum	Plant Species
Tree	yellow birch
Sapling/Shrub	yellow birch, gray birch, steeplebush, northern wild-raisin, mountain holly, black spruce, sheep laurel, willow species (*salix* sp.)
Herb	cinnamon fern, white beakrush (*Rhynchospora alba*), common woolly bulrush, bog buckbean (*Menyanthes trifoliata*), boreal bog sedge, bristly buttercup (*Ranunculus hispidus*), goldthread, Canada rush (*Juncus canadensis*)

Soil Profile of WL-1-2022

Depth	Matrix	Redox Features	Texture
0-40 cm	N/A	N/A	sphagnum/peat
40 cm +	restrictive layer	N/A	bedrock

WL-2-2022 – Disturbed Swamp

Approximate total area: 0.23 ha
Delineated: July 7, 2022
Hydrological Features: Organic material and soils present in WL-2-2022 were saturated. Other indicators of wetland hydrology included 3-5 cm of standing water and high-water table.

Vegetation Profile of WL-2-2022

Stratum	Plant Species
Tree	-- (cutover)
Sapling/Shrub	red maple, black spruce, balsam fir, yellow birch, northern wild-raisin, sheep laurel
Herb	Canada manna grass, rough-stemmed goldenrod, large cranberry (*Vaccinium macrocarpon*), carex species (*carex* sp.), scirpus species (*scirpus* sp.), cinnamon fern

Soil Profile of WL-2-2022

Depth	Matrix	Redox Features	Texture
0-46 cm	N/A	N/A	sphagnum/peat
46-58 cm	5 YR 2.5/1	N/A	clay loam
58-66 cm	7.5 YR 4/1	N/A	sandy clay loam
66 cm +	restrictive layer	N/A	gravels/sand (till)

WL-3-2022 – Mixedwood Treed Swamp

Approximate total area: 1.13 ha
Delineated: July 7, 2022
Hydrological Features: Organic material and soils present in WL-3-2022 were saturated. Other indicators of wetland hydrology included aquatic fauna, drainage patterns, 3-5 cm of standing water, and high-water table.

Vegetation Profile of WL-3-2022

Stratum	Plant Species
Tree	yellow birch, red maple, picea species (*picea* sp.), balsam fir
Sapling/Shrub	picea species (*picea* sp.), yellow birch, white ash, red maple, striped maple (*Acer pensylvanicum*), northern wild raisin, American witch-hazel (*Hamamelis virginiana*).
Herb	fowl manna grass, cinnamon fern, sensitive fern, three-seeded sedge, northern starflower, Canada anemone (*Anemonastrum canadense*), goldthread.

Soil Profile of WL-3-2022

Depth	Matrix	Redox Features	Texture
5-0 cm	N/A	N/A	clay loam organics
0-23 cm	7.5 YR 4/1	1% 5YR 5/8	sandy loam
23-36 cm	7.5 YR 5/2	N/A	sandy loam

WL-4-2022 – Mixedwood Treed Swamp

Approximate total area: 2.56 ha
Delineated: July 7, 2022
Hydrological Features: Organic material and soils present in WL-4-2022 were saturated. Other indicators of wetland hydrology included 6 cm of standing water, drainage patterns, high water table, and presence of aquatic fauna.

Vegetation Profile of WL-4-2022

Stratum	Plant Species
Tree	red maple, black spruce, eastern white pine
Sapling/Shrub	red maple, black spruce, yellow birch, balsam fir, eastern white pine, mountain fly honeysuckle (*Lonicera villosa*)
Herb	common woolly bulrush, scirpus species (*scirpus* sp.), cinnamon fern, white beakrush, carex species (*carex* sp.), Canada manna grass, three-seeded sedge, round-leaved sundew, viola species (*viola* sp.)

Soil Profile of WL-4-2022

Depth	Matrix	Redox Features	Texture
2-0 cm	N/A	N/A	organic material
0-23 cm	7.5 YR 4/1 99%	RL 1% 5YR 5/8	clay loam
23-36 cm	7.5 YR 5/2 100%	N/A	sandy loam

WL-5-2022 – Disturbed Swamp

Approximate total area: 0.26 ha
Delineated: July 8, 2022
Hydrological Features: Organic material and soils present in WL-5-2022 were saturated. Other indicators of wetland hydrology included water stained leaves, high water table, and rutting and ponding of water (due to forestry operations in areas of high-water table).

Vegetation Profile of WL-5-2022

Stratum	Plant Species
Tree	red maple, black spruce, eastern white pine
Sapling/Shrub	red maple, black spruce, yellow birch, balsam fir, eastern white pine, mountain fly honeysuckle (*Lonicera villosa*)
Herb	common woolly bulrush, scirpus species (*scirpus* sp.), cinnamon fern, white beakrush, carex species (*carex* sp.), Canada manna grass, three-seeded sedge, round-leaved sundew, viola species (*viola* sp).

Soil Profile of WL-4-2022

Depth	Matrix	Redox Features	Texture
1-0 cm	N/A	N/A	decomposing organic material
0-4 cm	5 YR 3/1 100%	N/A	sandy loam covered by organic material
4-20 cm	7.5 YR 5/2 100%	N/A	upland soil
20 cm +	restrictive layer	N/A	sandy till

WL-6-2022 – Bog

Approximate total area: 0.40 ha
Delineated: July 8, 2022
Hydrological Features: The soil conditions in WL-6-2022 were saturated and standing water occurred at a depth of approximately 25 cm in some places. Other indicators of wetland hydrology included aquatic fauna, high water table at surface, and 100% sphagnum soil composition.

Vegetation Profile of WL-6-2022

Stratum	Plant Species
Tree	red maple, black spruce, eastern white pine
Sapling/Shrub	balsam fir, black spruce, red maple, black spruce, yellow birch, balsam fir, eastern white pine, mountain fly honeysuckle (*Lonicera villosa*), common winterberry, mountain holly, sheep laurel
Herb	cinnamon fern, Canada manna grass, three-leaved false Solomon's seal, three-seeded sedge, bog aster (*Oclemena nemoralis*), white beakrush, round-leaved sundew, goldthread.

Soil Profile of WL-6-2022

Depth	Matrix	Redox Features	Texture
420 cm +	N/A	N/A	sphagnum/peat

WL-7-2022 – Disturbed Hardwood Swamp

Approximate total area: 0.29 ha
Delineated: July 8, 2022
Hydrological Features: The soil conditions in WL-7-2022 were saturated and standing water occurred at a depth of approximately 5-10 cm. Other indicators of wetland hydrology included the presence of aquatic fauna, high water table at the surface, and 90% sphagnum soil composition.

Vegetation Profile of WL-7-2022

Stratum	Plant Species
Tree	eastern white pine
Sapling/Shrub	gray birch, yellow birch, black spruce, red maple, salix species (*salix* sp.), rhodora (*Rhododendron canadense*), eastern white pine
Herb	scirpus species (*scirpus* sp.), bristly buttercup, dwarf red raspberry, cinnamon fern, common woolly bulrush

Soil Profile of WL-7-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	N/A	N/A	sphagnum/peat
20 cm +	restrictive layer	N/A	bedrock

WL-8-2022 – Bog

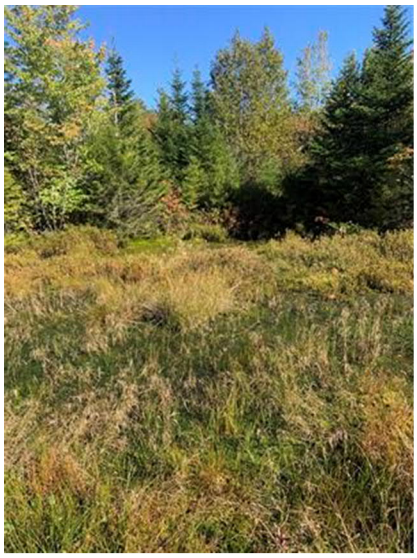
Delineated total area: 0.02 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-8-2022 were saturated and floating mats of organic matter were present. Other indicators of wetland hydrology included the presence of a strong sulphur odour indicating the decomposition of organic matter under anaerobic conditions.

Vegetation Profile of WL-8-2022

Stratum	Plant Species
Tree	--
Sapling/Shrub	leatherleaf (*Chamaedaphne calyculata*)
Herb	soft rush (*Juncus effusus*), fowl manna grass, Canada rush, Virginia St. John's-wort, tawny cottongrass

Soil Profile of WL-8-2022

Depth	Matrix	Redox Features	Texture
25-0 cm	N/A	N/A	sphagnum/peat
0 cm +	restrictive layer	N/A	sand



WL-9-2022 – Shrub Swamp (with mixedwood tree canopy present)

Approximate total area: 0.35 ha
Delineated: August 3, 2022
Hydrological Features: The soil conditions in WL-9-2022 were saturated at 0 cm. Other indicators of wetland hydrology included water-soaked leaves, drainage patterns and a high-water table at 10 cm depth.

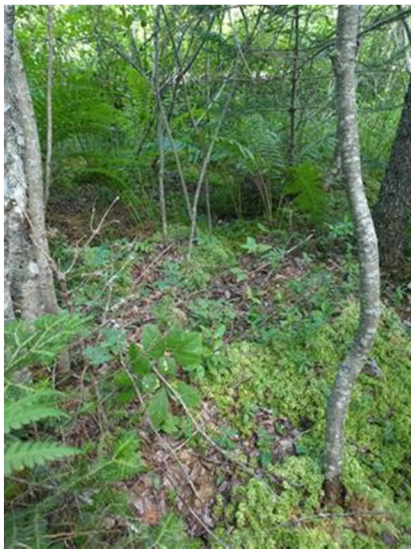
Vegetation Profile of WL-9-2022

Stratum	Plant Species
Tree	picea species (*picea* sp.), red maple, gray birch
Sapling/Shrub	velvet-leaved blueberry, speckled alder, northern wild raisin, sheep laurel
Herb	fowl manna grass, cinnamon fern, three-seeded sedge, dwarf raspberry, bunchberry, wild lily-of-the-valley, common marsh bedstraw, whorled wood aster

Soil Profile of WL-9-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	mesic texture





WL-10-2022 – Hardwood Treed Swamp

Approximate total area: 0.19 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-10-2022 were saturated at 0 cm. Other indicators of wetland hydrology included geomorphic position (i.e., depression area on aerial imagery), water-soaked leaves, drainage patterns, and a high-water table at 10 cm depth.

Vegetation Profile of WL-10-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	velvet-leaved blueberry, speckled alder, black spruce, common winterberry, sheep laurel
Herb	fowl manna grass, cinnamon fern, sensitive fern, wild lily-of-the-valley, three-seeded sedge, three-leaved false Solomon's seal, whorled wood aster

Soil Profile of WL-10-2022

Depth	Matrix	Redox Features	Texture
0-25 cm	histosol	N/A	humic texture
25 cm	restrictive layer	N/A	bedrock



WL-11-2022 – Hardwood Treed Swamp (with dense shrub layer)

Approximate total area: 1.18 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-11-2022 were saturated at 0 cm. Other indicators of wetland hydrology included geomorphic position (i.e., depression area on aerial imagery) water-soaked leaves, drainage patterns, and a high-water table at 10 cm depth.

Vegetation Profile of WL-11-2022

Stratum	Plant Species
Tree	yellow birch, red maple, white ash, paper birch
Sapling/Shrub	yellow birch, red maple, white ash, beaked hazel, northern wild-raisin
Herb	cinnamon fern, dwarf red raspberry, whorled wood aster, goldthread, wild lily-of-the-valley

Soil Profile of WL-11-2022

Depth	Matrix	Redox Features	Texture
2-0 cm	histosol	N/A	decomposing organics
0-25 cm	dark black/brown	N/A	100% silt loam
22-220 cm	95% - lighter brown	5% - orange/red redox concentration	N/A
220 cm +	restrictive layer	N/A	rock

WL-12-2022– Complex: Bog and Mixed-wood Treed Swamp

Approximate total area: 1.76 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-12-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water-soaked leaves, drainage patterns, and a high-water table at 2-5 cm depth.

Vegetation Profile of WL-12-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, red maple, northern wild raisin, mountain holly, sheep laurel, common Labrador tea (*Rhododendron groenlandicum*)
Herb	boreal bog sedge, tawny cotton grass, three-leaved false Solomon's seal, large cranberry, round-leaved sundew, cinnamon fern, white beakrush

Soil Profile of WL-12-2022

Depth	Matrix	Redox Features	Texture
2-0 cm	histosol	N/A	decomposing organics
0-25 cm	dark black/brown	N/A	100% silt loam
22-220 cm	95% - lighter brown	5% - orange/red redox concentration	N/A
220 cm +	restrictive layer	N/A	rock

WL-13-2022 – Bog

Approximate total area: 1.69 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-13-2022 were saturated. Other indicators of wetland hydrology included high sphagnum content and a high-water table at 2-5 cm depth.

Vegetation Profile of WL-13-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, red maple, northern wild-raisin, mountain holly, sheep laurel, common Labrador tea
Herb	boreal bog sedge, tawny cottongrass, three-leaved false Solomon's seal, large cranberry, round-leaved sundew, cinnamon fern, white beakrush

Soil Profile of WL-13-2022

Depth	Matrix	Redox Features	Texture
26-0 cm	N/A	N/A	sphagnum/peat
0-15 cm	dark black with organics	N/A	100% silty
15-36 cm	N/A	grey/gleyed features	granite flakes present
36 cm +	restrictive layer	N/A	clay pan and/or granite

WL-14-2022 – Shrub Swamp (with sparse tree canopy)

Approximate total area: 1.53 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-14-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water-soaked leaves, water-stressed and stunted plant growth, drainage patterns, and a high-water table at 25 cm depth.

Vegetation Profile of WL-14-2022

Stratum	Plant Species
Tree	red maple, black spruce, balsam fir
Sapling/Shrub	mountain holly, northern wild-raisin, speckled alder, black spruce, red maple, sheep laurel, late lowbush blueberry (*Vaccinium angustifolium*)
Herb	cinnamon fern, three-leaved false Solomon's seal, three-seeded sedge, bunchberry, smooth blackberry (*Rubus canadensis*)

Soil Profile of WL-14-2022

Depth	Matrix	Redox Features	Texture
0-50 cm	histosol	N/A	humic texture
50cm +	restrictive layer	N/A	bedrock



WL-15-2022 – Mixedwood Treed Swamp

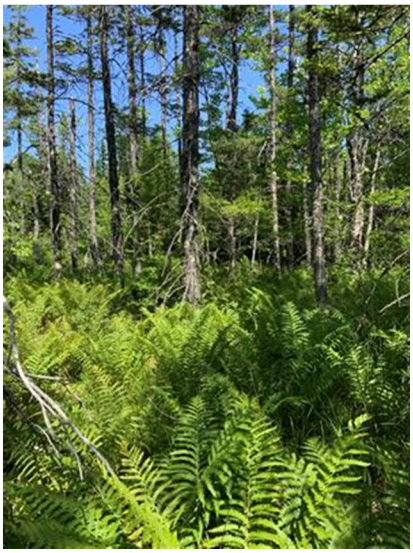
Approximate total area: 0.26 ha
Delineated: August 4, 2022
Hydrological Features: The soil conditions in WL-15-2022 were saturated. Other indicators of wetland hydrology included high sphagnum content and a high-water table at 10 cm depth.

Vegetation Profile of WL-15-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	mountain holly, sheep laurel, northern wild raisin, black spruce,
Herb	cinnamon fern, tawny cottongrass, Canada manna grass, three-leaved false Solomon's seal, bunchberry, three-seeded sedge, brown beakrush

Soil Profile of WL-15-2022

Depth	Matrix	Redox Features	Texture
21-0 cm	N/A	N/A	sphagnum/peat
0 cm +	restrictive layer	N/A	rock


WL-16-2022 – Mixedwood Treed Swamp

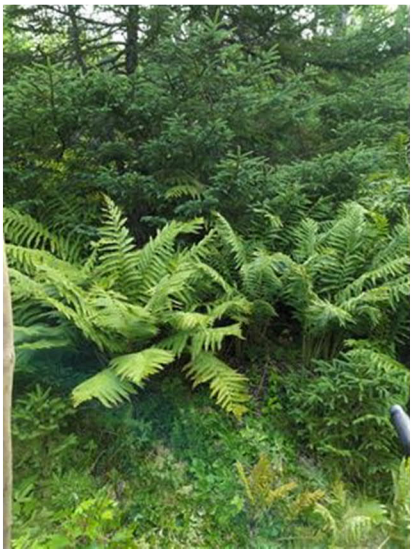
Approximate total area: 0.85 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-16-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included high sphagnum content and a high-water table at 10 cm depth.

Vegetation Profile of WL-16-2022

Stratum	Plant Species
Tree	black spruce, balsam fir, red maple
Sapling/Shrub	black spruce, balsam fir, mountain holly, sheep laurel, northern wild raisin, eastern white pine, red maple, velvet-leaved blueberry, American mountain ash (*Sorbus americana*)
Herb	three-leaved false Solomon's seal, three-seeded sedge, creeping snowberry (*Gaultheria hispidula*), bunchberry

Soil Profile of WL-16-2022

Depth	Matrix	Redox Features	Texture
+5-0 cm	N/A	N/A	organic material
0-20 cm	histosol	N/A	humic texture
20-25 cm	N/A	N/A	gravel
25 cm +	restrictive layer	N/A	bedrock


WL-17-2022 – Bog

Approximate total area: 0.56 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-17-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included geomorphic position (i.e., depression area on aerial imagery), water-stressed and stunted plant growth, and a high water table at 40 cm depth.

Vegetation Profile of WL-17-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, common winterberry, mountain holly, northern wild raisin, red maple, paper birch, sheep laurel
Herb	tawny cottongrass, three-leaved false Solomon's seal, three-seeded sedge, bristly dewberry, cinnamon fern, common woolly bulrush

Soil Profile of WL-17-2022

Depth	Matrix	Redox Features	Texture
+5-0 cm	N/A	N/A	organic material
0-100 cm	histosol	N/A	fibric texture



WL-18-2022 – Mixedwood Treed Swamp

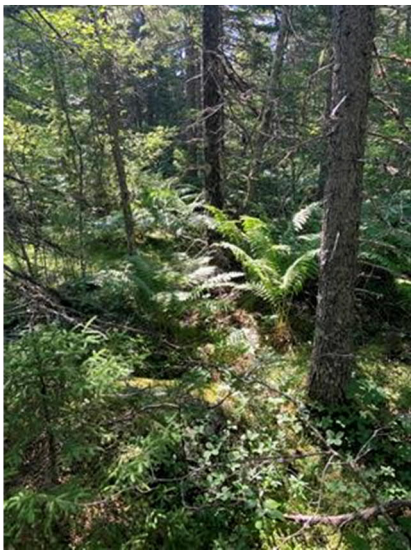
Approximate total area: 0.16 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-18-2022 were saturated. Other indicators of wetland hydrology included high sphagnum content in organic layer (i.e., nearly 100% sphagnum), unvegetated concave depressions, drainage patterns, water stained leaves and moss trim lines.

Vegetation Profile of WL-18-2022

Stratum	Plant Species
Tree	black spruce, red maple, eastern white pine
Sapling/Shrub	mountain holly, northern wild raisin, black spruce, sheep laurel
Herb	goldthread, cinnamon fern, bunchberry, bristly-stalked sedge (*Carex leptalea*), dryopteris species (*dryopteris* sp.)

Soil Profile of WL-18-2022

Depth	Matrix	Redox Features	Texture
10-0 cm	N/A	N/A	sphagnum/peat
0 cm +	restrictive layer	N/A	rock



WL-19-2022 – Bog

Approximate total area: 0.13 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-19-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, presence of water table at 20 cm depth, and water present directly at the soil surface.

Vegetation Profile of WL-19-2022

Stratum	Plant Species
Tree	paper birch, yellow birch
Sapling/Shrub	yellow birch, red maple, black spruce, sheep laurel, northern wild raisin
Herb	common woolly bulrush, three-leaved false Solomon's seal, three-seeded sedge, cinnamon fern

Soil Profile of WL-19-2022

Depth	Matrix	Redox Features	Texture
0-1 m	histosol	N/A	mesic texture
1-1.05 m	N/A	N/A	gravel
1.05 m +	restrictive layer	N/A	bedrock



WL-20-2022 – Softwood Treed Swamp

Approximate total area: 0.47 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-20-2022 were saturated. Other indicators of wetland hydrology included near-100% sphagnum content, unvegetated concave depression, wet stained leaves, and moss trim lines.

Vegetation Profile of WL-20-2022

Stratum	Plant Species
Tree	black spruce, red maple, paper birch
Sapling/Shrub	northern wild raisin, sheep laurel, mountain holly, speckled alder, black spruce yellow birch, red maple, black spruce, sheep laurel,
Herb	three-leaved false Solomon's seal, bunchberry, whorled wood aster, goldthread, three-seeded sedge, interrupted fern

Soil Profile of WL-20-2022

Depth	Matrix	Redox Features	Texture
8-0 cm	N/A	N/A	sphagnum/peat
0 cm +	restrictive layer	N/A	rock

WL-21-2022 – Shrub Swamp (with sparse tree canopy)

Approximate total area: 0.36 ha
Delineated: August 5, 2022
Hydrological Features: The soil conditions in WL-21-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included stunted plant growth, presence of water table at 30 cm and water stained leaves.

Vegetation Profile of WL-21-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	mountain holly, common winterberry, black spruce, red maple, yellow birch, northern wild raisin, sheep laurel
Herb	three-leaved false Solomon's seal, three-seeded sedge

Soil Profile of WL-21-2022

Depth	Matrix	Redox Features	Texture
0.5 m	N/A	N/A	decomposing organic material
0-0.5 m	histosol	N/A	humic texture
0.5 m	restrictive layer	N/A	bedrock



WL-22-2022 – Shrub Swamp

Approximate total area: 0.25 ha
Delineated: September 1, 2022
Hydrological Features: The soil conditions in WL-22-2022 were saturated at the surface. Other indicators of wetland hydrology included aquatic fauna, high sphagnum content, presence of high-water table at 10 cm depth, and saturated soils at surface.

Vegetation Profile of WL-22-2022

Stratum	Plant Species
Tree	--
Sapling/Shrub	red maple, leatherleaf, rhodora, sheep laurel, black spruce
Herb	bluejoint reed grass, swamp yellow loosestrife (*Lysimachia terrestris*), bristly dewberry, Virginia St. John's-wort, northern water horehound, Canada manna grass, marsh willowherb (*Epilobium palustre*), round-leaved sundew, rose pogonia (*Pogonia ophioglossoides*), creeping snowberry, bog aster, common woolly bulrush, branched bartonia (*Bartonia paniculata*), brown-fruited rush (*Juncus pelocarpus*)

Soil Profile of WL-22-2022

Depth	Matrix	Redox Features	Texture
15-0 cm	N/A	N/A	decomposing organic material
0-13 cm	100% 10YR 2/1	1 CN	clay
20 cm +	restrictive layer	N/A	bedrock

WL-23-2022 – Hardwood Treed Swamp

Approximate total area: 1.34 ha
Delineated: September 1, 2022
Hydrological Features: The soil conditions in WL-23-2022 were saturated at the surface. Other indicators of wetland hydrology included drift deposits, drainage patterns, moss trim lines, water stained leaves, standing water instream (up to 30 cm), and high-water table (10 cm below surface).

Vegetation Profile of WL-23-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	speckled alder, northern wild raisin, Alleghaney blackberry (*Rubus allegheniensis*), hobblebush (*Viburnum lantanoides*)
Herb	sallow sedge (*Carex lurida*), nodding sedge, bluejoint reed grass, swamp yellow loosestrife, rough-stemmed goldenrod, rough-stemmed goldenrod, spinulose wood fern (*Dryopteris carthusiana*), bog aster

Soil Profile of WL-23-2022

Depth	Matrix	Redox Features	Texture
16-0 cm	100% 10YR 2/1	N/A	decomposing organic material
0 cm +	restrictive layer	N/A	rock, granite

WL-24-2022 – Bog

Approximate total area: 0.42 ha
Delineated: September 1, 2022
Hydrological Features: The soil conditions in WL-24-2022 were saturated at the surface. Other indicators of wetland hydrology included high water table, aquatic fauna, 100% sphagnum material at surface and high-water table near surface.

Vegetation Profile of WL-24-2022

Stratum	Plant Species
Tree	-- (logged)
Sapling/Shrub	mountain holly, northern wild raisin, black spruce, red maple, sheep laurel
Herb	tawny cottongrass, boreal bog sedge, round-leaved sundew, Canada manna grass, three-leaved false Solomon's seal, cinnamon fern, Virginia St. John's-wort, marsh willowherb, hypericum species (*hypericum* sp.), creeping snowberry.

Soil Profile of WL-24-2022

Depth	Matrix	Redox Features	Texture
24-0 cm	100% 10YR 2/1	N/A	sphagnum/peat/decomposing organic material
0-25 cm	10YR 2/1	N/A	100% clay muck mixed with peat and other organics
25 cm +	restrictive layer	N/A	granite

WL-25-2022 – Bog

Approximate total area: 0.30 ha
Delineated: September 1, 2022
Hydrological Features: The soil conditions in WL-25-2022 were saturated at the surface. Other indicators of wetland hydrology included high sphagnum content and high-water table (7 cm below surface).

Vegetation Profile of WL-25-2022

Stratum	Plant Species
Tree	picea species (picea sp.). Note - planted species? Logging has occurred at this site; naturalized ruts evident
Sapling/Shrub	picea species, mountain holly, red maple, sheep laurel, northern wild raisin
Herb	tawny cottongrass, three-leaved false Solomon's seal, boreal bog sedge, marsh willowherb, bristly dewberry, Canada manna grass, common woolly bulrush, northern bog goldenrod (*Solidago uliginosa*), cinnamon fern, bunchberry, star sedge (*Carex echinata*), brownish sedge (*Carex brunnescens*)

Soil Profile of WL-25-2022

Depth	Matrix	Redox Features	Texture
16-0 cm	100% 10YR 2/1	N/A	sphagnum/peat/decomposing organic material
0 cm +	restrictive layer	N/A	granite rock/gravel

WL-26-2022 – Bog

Approximate total area: 0.35 ha
Delineated: September 2, 2022
Hydrological Features: The soil conditions in WL-26-2022 were saturated at the surface. Other indicators of wetland hydrology included high sphagnum content and high-water table (5 cm below surface).

Vegetation Profile of WL-26-2022

Stratum	Plant Species
Tree	picea species (picea sp.). Note – planted species? Logging has occurred at this site; naturalized ruts evident)
Sapling/Shrub	picea species (*picea* sp.), mountain holly, common winterberry, red maple, sheep laurel, northern wild raisin
Herb	wild lily-of-the-valley, tawny cottongrass, Virginia St. Johns-wort, common woolly bulrush, cinnamon fern, boreal bog sedge, brownish sedge, round-leaved sundew, dwarf red raspberry, creeping snowberry, large cranberry, marsh willowherb

Soil Profile of WL-26-2022

Depth	Matrix	Redox Features	Texture
420 cm +	N/A	N/A	sphagnum/peat/decomposing organic material

WL-27-2022 – Bog

Approximate total area: 0.13 ha
Delineated: September 2, 2022
Hydrological Features: The soil conditions in WL-27-2022 were saturated at the surface. Other indicators of wetland hydrology included high sphagnum content and high-water table (5 cm below surface).

Vegetation Profile of WL-27-2022

Stratum	Plant Species
Tree	picea species (picea sp.) Note – planted species? Logging has occurred at this site; naturalized ruts evident
Sapling/Shrub	picea species (*picea* sp.), red maple, rhodora, mountain holly, common winterberry, sheep laurel
Herb	wild lily-of-the-valley, tawny cottongrass, three-seeded sedge, creeping snowberry, Canada manna grass, brownish sedge, common woolly bulrush, round-leaved sundew, eastern teaberry (*Gaultheria procumbens*), branched bartonia

Soil Profile of WL-27-2022

Depth	Matrix	Redox Features	Texture
12-0 cm +	N/A	N/A	100% sphagnum/peat/decomposing organic material
0-15 cm	10 YR 2/1	N/A	clay muck with organics
15 cm +	restrictive layer	N/A	granite

WL-28-2022 – Bog

Approximate total area: 0.81 ha
Delineated: September 2, 2022
Hydrological Features: The soil conditions in WL-28-2022 were saturated at the surface. Other indicators of wetland hydrology included aquatic fauna, high sphagnum content, high-water table, and presence of surface water (i.e., ponded water 20-25 cm in depth).

Vegetation Profile of WL-28-2022

Stratum	Plant Species
Tree	-- (logged). Logging has occurred at this site; disturbance naturalized)
Sapling/Shrub	picea species (*picea* sp.), red maple, rhodora, mountain holly, common winterberry, sheep laurel
Herb	wild lily-of-the-valley, tawny cottongrass, three-seeded sedge, creeping snowberry, Canada manna grass, brownish sedge, common woolly bulrush, round-leaved sundew, eastern teaberry, branched bartonia

Soil Profile of WL-28-2022

Depth	Matrix	Redox Features	Texture
10-0 cm	N/A	N/A	sphagnum/peat
0 cm +	restrictive layer	N/A	granite

WL-29-2022 – Bog

Approximate total area: 1.07 ha
Delineated: September 9, 2022
Hydrological Features: The soil conditions in WL-29-2022 were saturated at the surface. Other indicators of wetland hydrology included stunted vegetative growth, high sphagnum content, and high-water table at surface.

Vegetation Profile of WL-29-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, mountain holly, red maple, speckled alder, sheep laurel
Herb	tawny cottongrass, three-leaved false Solomon's seal, cinnamon fern, bluejoint reed grass, creeping snowberry, silvery sedge (*Carex canescens*)

Soil Profile of WL-29-2022

Depth	Matrix	Redox Features	Texture
48-0 cm	N/A	N/A	sphagnum/peat

WL-30-2022 – Mixedwood Tree Swamp

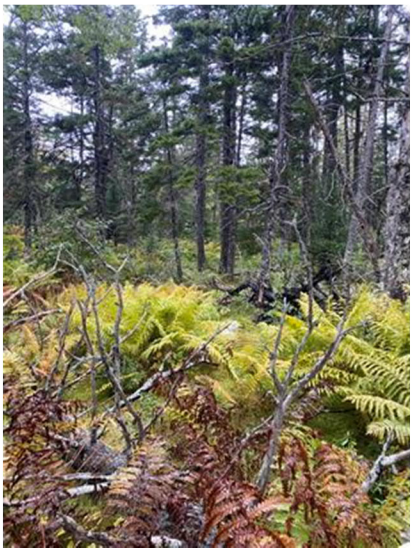
Approximate total area: 0.50 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-30-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, drainage patterns, geomorphic position, stunted vegetative growth, and high-water table at surface.

Vegetation Profile of WL-30-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	balsam fir, red maple, northern wild raisin, sheep laurel, mountain holly, black spruce
Herb	interrupted fern, cinnamon fern, three-seeded sedge, bunchberry, wild sarsaparilla, creeping snowberry, trailing arbutus (*Epigaea repens*), velvet-leaved blueberry, New York fern (*Parathelypteris noveboracensis*)

Soil Profile of WL-30-2022

Depth	Matrix	Redox Features	Texture
0-113 cm	histosol	N/A	mesic texture
113 cm	restrictive layer	N/A	bedrock


WL-31-2022 – Complex: Fen (with treed swamp components)

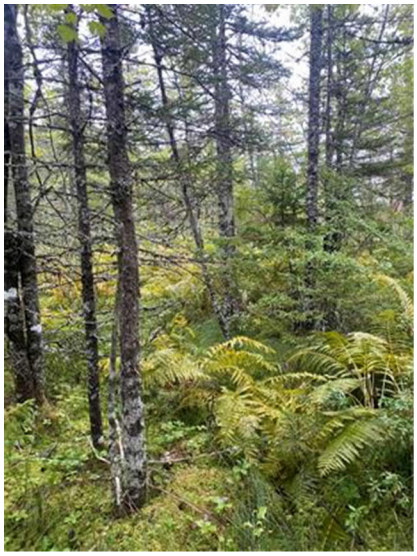
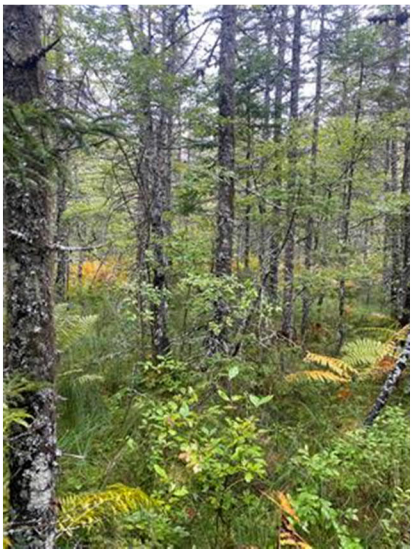
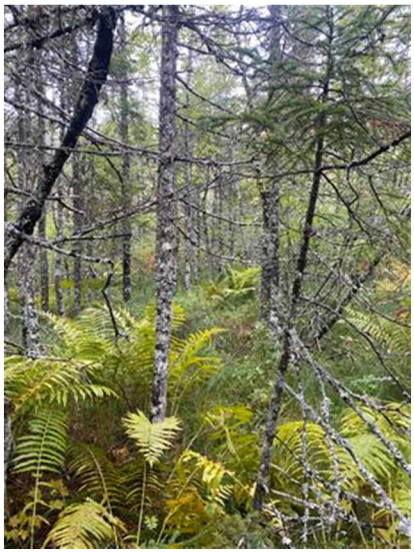
Approximate total area: 16.78 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-31-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, drainage patterns, aerial imagery, surface water (up to 5 cm in depth), stunted vegetative growth, and high-water table at 10 cm.

Vegetation Profile of WL-31-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	black spruce, common winterberry, mountain holly, red maple, northern wild raisin, balsam fir
Herb	cinnamon fern, tussock sedge, bunchberry, three-leaved false Solomon's seal, late lowbush blueberry

Soil Profile of WL-31-2022

Depth	Matrix	Redox Features	Texture
0-100 cm	histosol	N/A	mesic texture
100 cm +	restrictive layer	N/A	bedrock

WL-32-2022 – Bog

Approximate total area: 0.08 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-32-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included stunted vegetative growth, high-water table at surface (at 10 cm), and presence of standing surface water (10 cm depth).

Vegetation Profile of WL-32-2022

Stratum	Plant Species
Tree	black spruce, paper birch
Sapling/Shrub	black spruce, mountain holly, paper birch, trembling aspen (*Populus tremuloides*)
Herb	common woolly bulrush, cinnamon fern, rough-stemmed goldenrod, bunchberry, tussock sedge, tawny cottongrass, crested wood fern, red raspberry, bristly dewberry, Fraser St. John's-wort (*Hypericum fraseri*), three-leaved false Solomon's seal, narrow-leaved cattail (*Typha angustifolia*)

Soil Profile of WL-32-2022

Depth	Matrix	Redox Features	Texture
0-100 cm	histosol	N/A	mesic texture
100 cm	restrictive layer	N/A	bedrock



WL-33-2022 – Hardwood Treed Swamp (with dense shrub layer)

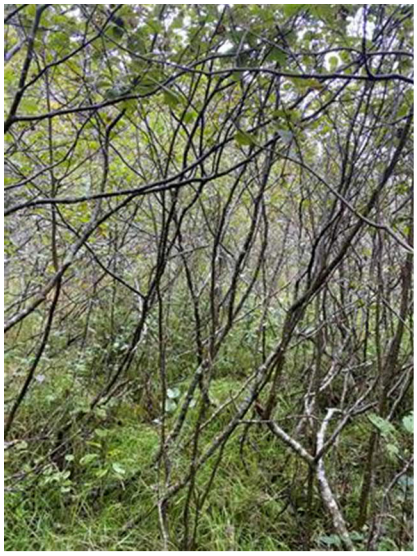
Approximate total area: 4.39 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-33-2022 were saturated at the surface (saturated at 0 cm). Other indicators of wetland hydrology included stunted aerial imagery, water stained leaves, drainage patterns, aquatic fauna, sand deposits (i.e., sedimentation), high-water table (at 5 cm), and presence of standing surface water (5 cm depth).

Vegetation Profile of WL-33-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	speckled alder, common winterberry, rubus species (*rubus* sp.)
Herb	common woolly bulrush, cinnamon fern, rough-stemmed goldenrod, bunchberry, tussock sedge, tawny cottongrass, crested wood fern, red raspberry, bristly dewberry, Fraser St. John's-wort, three-leaved false Solomon's seal, narrow-leaved cattail

Soil Profile of WL-33-2022

Depth	Matrix	Redox Features	Texture
0-30 cm	fibric histosol	N/A	fibric texture
30 cm	restrictive layer	N/A	gravel/bedrock



WL-34-2022 – Bog

Approximate total area: 0.39 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-34-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included stunted vegetative growth and high-water table (at 10 cm).

Vegetation Profile of WL-34-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	speckled alder, red maple, paper birch, mountain holly, sheep laurel, northern wild raisin
Herb	tawny cottongrass, tussock sedge, three-leaved false Solomon's seal

Soil Profile of WL-34-2022

Depth	Matrix	Redox Features	Texture
0-50 cm	fibric histosol	N/A	fibric texture
50 cm	restrictive layer	N/A	gravel



WL-35-2022 – Bog

Approximate total area: 0.93 ha
Delineated: September 21, 2022
Hydrological Features: The soil conditions in WL-35-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, presence of surface water, stunted vegetative growth and high-water table.

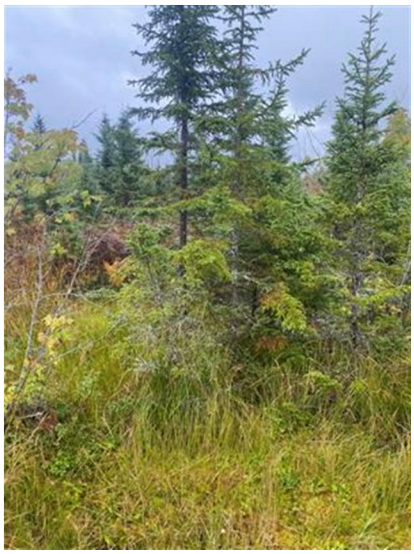
Vegetation Profile of WL-35-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	black spruce, red maple, northern wild raisin
Herb	woolly bulrush, tussock sedge, narrow-leaved cottongrass, bristly dewberry, dwarf red raspberry, three-leaved false Solomon's seal

Soil Profile of WL-35-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	mesic texture
20 cm +	restrictive layer	N/A	bedrock





WL-36-2022 – Bog

Approximate total area: 0.65 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-36-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, water stained leaves, presence of surface water, stunted vegetative growth, and high-water table.

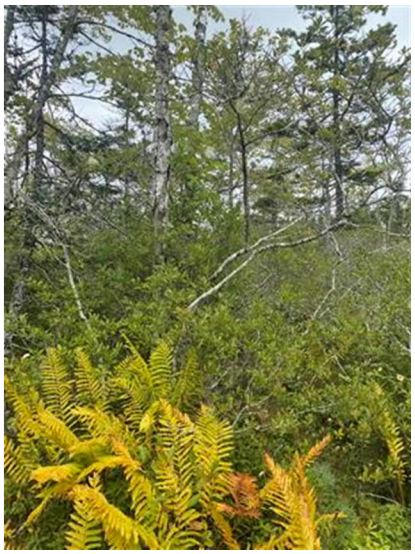
Vegetation Profile of WL-36-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	common winterberry, mountain holly, black spruce, eastern white pine, red maple, sheep laurel
Herb	cinnamon fern, creeping snowberry, tawny cottongrass, three-leaved false Solomon's seal

Soil Profile of WL-36-2022

Depth	Matrix	Redox Features	Texture
0-50 cm	histosol	N/A	mesic texture
50 cm +	restrictive layer	N/A	bedrock





WL-37-2022 – Disturbed Swamp

Approximate total area: 0.06 ha
Delineated: September 21, 2022
Hydrological Features: The soil conditions in WL-37-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-37-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, red maple, common winterberry, northern wild raisin, mountain holly
Herb	tawny cottongrass, tussock sedge, three-leaved false Solomon's seal

Soil Profile of WL-37-2022

Depth	Matrix	Redox Features	Texture
0-25 cm	histosol	N/A	mesic texture
25 cm	restrictive layer	N/A	bedrock

WL-38-2022 – Bog

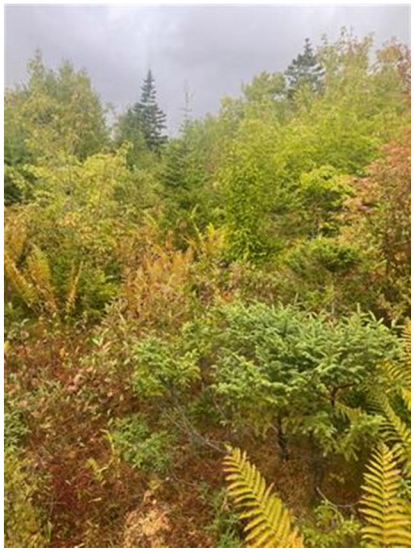
Approximate total area: 0.10 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-38-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included presence of surface water, water stained leaves, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-38-2022

Stratum	Plant Species
Tree	red maple, yellow birch
Sapling/Shrub	black spruce, red maple, northern wild raisin, speckled alder, white meadowsweet
Herb	fringed sedge (*Carex crinita*), tawny cottongrass, cinnamon fern, three-seeded sedge, rough-stemmed goldenrod, dwarf red raspberry, bristly dewberry

Soil Profile of WL-38-2022

Depth	Matrix	Redox Features	Texture
0-30 cm	histosol	N/A	mesic texture
30 cm	restrictive layer	N/A	bedrock



WL-39-2022 – Shrub Swamp

Approximate total area: 0.10 ha
Delineated: September 20, 2022
Hydrological Features: The soil conditions in WL-39-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, presence of surface water, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-39-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	red maple, black spruce, mountain holly, northern wild raisin, common winterberry
Herb	cinnamon fern, common woolly bulrush, bristly dewberry, three-seeded sedge

Soil Profile of WL-39-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	mesic texture
20 cm +	restrictive layer	N/A	bedrock



WL-40-2022 – Hardwood Treed Swamp

Approximate total area: 0.21 ha
Delineated: September 22, 2022
Hydrological Features: The soil conditions in WL-40-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, water stained leaves, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-40-2022

Stratum	Plant Species
Tree	red maple, paper birch
Sapling/Shrub	common winterberry, speckled alder, northern wild raisin, red maple, black spruce
Herb	bristly dewberry, three-seeded sedge, three-leaved false Solomon's seal, common woolly bulrush, wild sarsaparilla, cinnamon fern

Soil Profile of WL-40-2022

Depth	Matrix	Redox Features	Texture
0-50 cm	histosol	N/A	fibric texture
50 cm	restrictive layer	N/A	gravel



WL-41-2022 – Mixedwood Treed Swamp (with dense shrub layer)

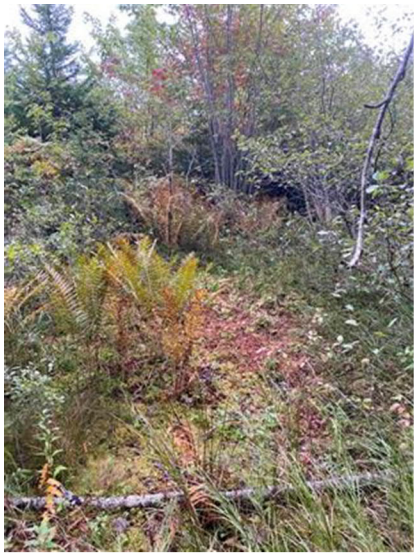
Approximate total area: 3.37 ha
Delineated: September 22, 2022
Hydrological Features: The soil conditions in WL-41-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, presence of surface water, water stained leaves, stunted vegetative growth, and high-water table.

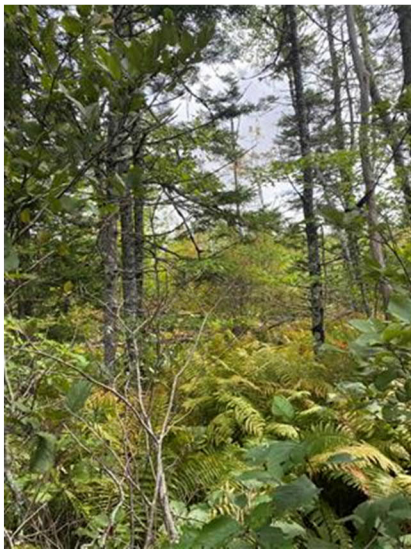
Vegetation Profile of WL-41-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	speckled alder, common winterberry, northern wild raisin, red maple, black spruce
Herb	Canada manna grass, cinnamon fern, New York fern, three-leaved false Solomon's seal, whorled wood aster

Soil Profile of WL-41-2022

Depth	Matrix	Redox Features	Texture
0-15 cm	histosol	N/A	fibric texture
10 cm	restrictive layer	N/A	bedrock





WL-42-2022 – Bog

Approximate total area: 2.15 ha
Delineated: September 22, 2022
Hydrological Features: The soil conditions in WL-42-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of surface water, presence of surface water, water stained leaves, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-42-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, mountain holly, northern wild raisin, red maple, sheep laurel
Herb	cinnamon fern, three-leaved false Solomon's seal, Eastern marsh fern (*Thelypteris palustris*), tawny cottongrass, bunchberry, three-seeded sedge

Soil Profile of WL-42-2022

Depth	Matrix	Redox Features	Texture
0-130 cm	histosol	N/A	fibric texture



WL-43-2022 – Bog

Approximate total area: 7.40 ha
Delineated: September 22, 2022
Hydrological Features: The soil conditions in WL-43-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, water stained leaves, presence of surface water, stunted vegetative growth, and high-water table.

Vegetation Profile of WL-43-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, mountain holly, sheep laurel, common Labrador tea
Herb	tawny cottongrass, three-seeded sedge, three-leaved false Solomon's seal

Soil Profile of WL-43-2022

Depth	Matrix	Redox Features	Texture
0-65 cm	histosol	N/A	fibric texture



WL-44-2022 – Bog

Approximate total area: 2.47 ha
Delineated: September 26, 2022
Hydrological Features: The soil conditions in WL-44-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, water stained leaves, presence of surface water, and high-water table.

Vegetation Profile of WL-44-2022

Stratum	Plant Species
Tree	red maple, black spruce
Sapling/Shrub	black spruce, red maple, speckled alder, common winterberry, northern wild raisin
Herb	cinnamon fern, bluejoint reed grass, three-leaved false Solomon's seal, bristly dewberry, sheep laurel, creeping snowberry

Soil Profile of WL-44-2022

Depth	Matrix	Redox Features	Texture
0-130 cm +	histosol	N/A	fibric texture



WL-45-2022 – Hardwood Treed Swamp

Approximate total area: 0.54 ha
Delineated: September 26, 2022
Hydrological Features: The soil conditions in WL-45-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, aquatic fauna, stunted vegetative growth, presence of surface water, and high-water table.

Vegetation Profile of WL-45-2022

Stratum	Plant Species
Tree	red maple, black spruce, paper birch, yellow birch
Sapling/Shrub	northern wild raisin, mountain holly, black spruce, red maple, yellow birch
Herb	cinnamon fern, whorled wood aster, sheep laurel, bracken fern (*Pteridium aquilinum*), goldthread, bunchberry, three-seeded sedge

Soil Profile of WL-45-2022

Depth	Matrix	Redox Features	Texture
0-25 cm	histosol	N/A	mesic texture
25 cm +	restrictive layer	N/A	bedrock



WL-46-2022 – Mixedwood Treed Swamp

Approximate total area: 2.58 ha
Delineated: September 26, 2022
Hydrological Features: The soil conditions in WL-46-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, aquatic fauna, water stained leaves, stunted vegetative growth, presence of surface water, and high-water table.

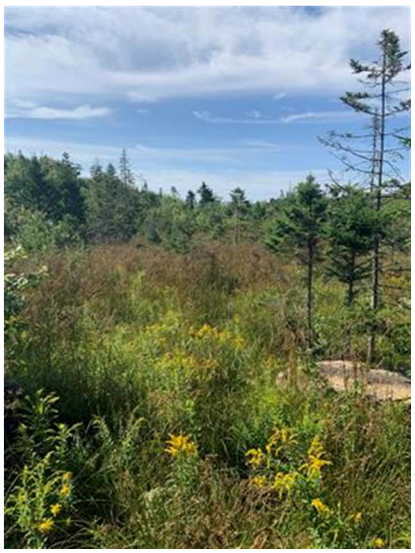
Vegetation Profile of WL-46-2022

Stratum	Plant Species
Tree	black spruce
Sapling/Shrub	black spruce, red maple, speckled alder, northern wild raisin
Herb	common woolly bulrush, tawny cottongrass, reed canary grass (*Phalaris arundinacea*), rough-stemmed goldenrod, hairy flat-top white aster (*Doellingeria umbellata*), bristly dewberry, bunchberry

Soil Profile of WL-46-2022

Depth	Matrix	Redox Features	Texture
0-35 cm	histosol	N/A	mesic texture
35 cm	restrictive layer	N/A	bedrock





WL-47-2022 – Disturbed Swamp

Approximate total area: 0.35 ha
Delineated: September 26, 2022
Hydrological Features: The soil conditions in WL-47-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included high water table and the presence of surface water (up to 5 cm in depth).

Vegetation Profile of WL-47-2022

Stratum	Plant Species
Tree	eastern white pine
Sapling/Shrub	black spruce, trembling aspen, red maple
Herb	common woolly bulrush, rough-stemmed goldenrod, hairy flat-top white aster, soft rush, three-seeded sedge, bristly dewberry

Soil Profile of WL-47-2022

Depth	Matrix	Redox Features	Texture
0-5 cm	histosol	N/A	fibric texture
5 cm	restrictive layer	N/A	bedrock

WL-48-2022 – Mixedwood Treed Swamp

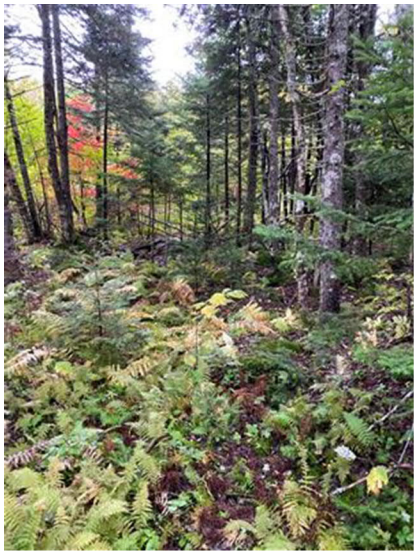
Approximate total area: 0.02 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-48-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, water stained leaves, presence of surface water, and high-water table.

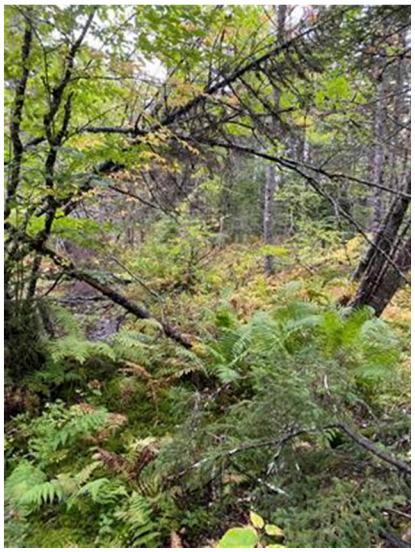
Vegetation Profile of WL-48-2022

Stratum	Plant Species
Tree	white spruce, red maple, striped maple, yellow birch, black spruce
Sapling/Shrub	balsam fir, striped maple, black spruce, northern wild raisin
Herb	New York fern, goldthread, northern starflower, bunchberry

Soil Profile of WL-48-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	fibric texture
20 cm	restrictive layer	N/A	bedrock





WL-49-2022 – Bog

Approximate total area: 0.41 ha
Delineated: September 27, 2022
Hydrological Features: The soil conditions in WL-49-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, stunted vegetative growth and high-water table (at 0 cm).

Vegetation Profile of WL-49-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	common winterberry, black spruce, red maple, northern wild raisin, yellow birch
Herb	cinnamon fern, tawny cottongrass, three-leaved false Solomon's seal, whorled wood aster

Soil Profile of WL-49-2022

Depth	Matrix	Redox Features	Texture
0-130 cm +	histosol	N/A	fibric texture



WL-50-2022 – Mixedwood Treed Swamp

Approximate total area: 2.86 ha

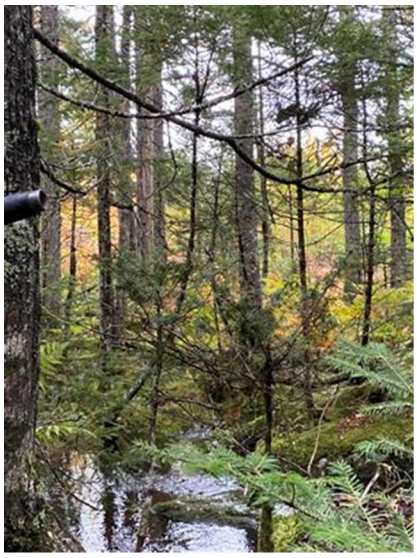
AA WL-50-2022
Delineated: September 27, 2022
Hydrological Features: The soil conditions in WL-50-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of surface water (up to 20 cm deep) and high-water table (at 5 cm).

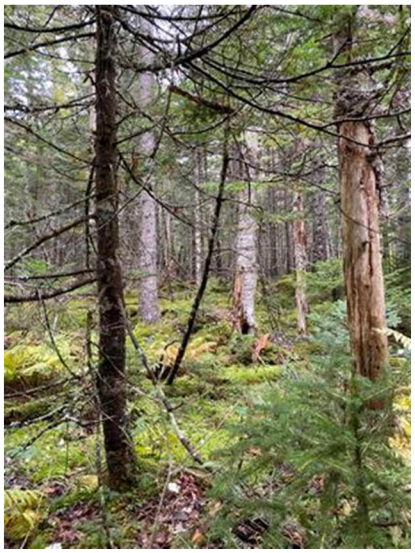
Vegetation Profile of WL-50-2022

Stratum	Plant Species
Tree	red maple, balsam fir, black spruce
Sapling/Shrub	balsam fir, black spruce, red maple, speckled alder, common winterberry
Herb	cinnamon fern, goldthread, northern starflower, three-seeded sedge, velvet-leaved blueberry, three-leaved false Solomon's seal

Soil Profile of WL-50-2022

Depth	Matrix	Redox Features	Texture
0-15 cm	histosol	N/A	mesic texture
15 cm	restrictive layer	N/A	gravel/rock





AA WL-51-2022

Delineated: September 27, 2022

Hydrological Features: The soil conditions in WL-51-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, stunted vegetative growth, presence of surface water, and high-water table.

Vegetation Profile of WL-51-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	mountain holly, northern wild raisin, black spruce
Herb	cinnamon fern, northern pitcher plant (*Sarracenia purpurea*), three-leaved false Solomon's seal, three-seeded sedge, goldthread, twinflower (*Linnaea borealis*)

Soil Profile of WL-51-2022

Depth	Matrix	Redox Features	Texture
0-130 cm	histosol	N/A	humic texture

WL-52-2022 – Mixedwood Treed Swamp

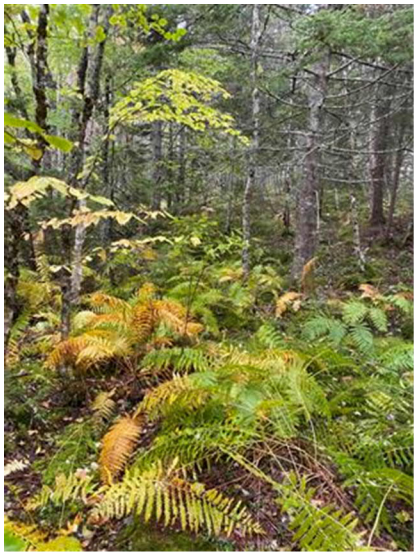
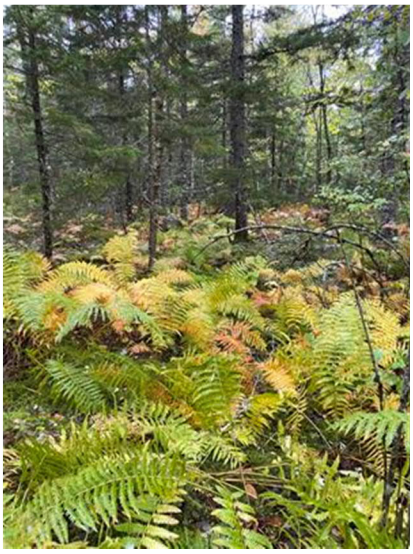
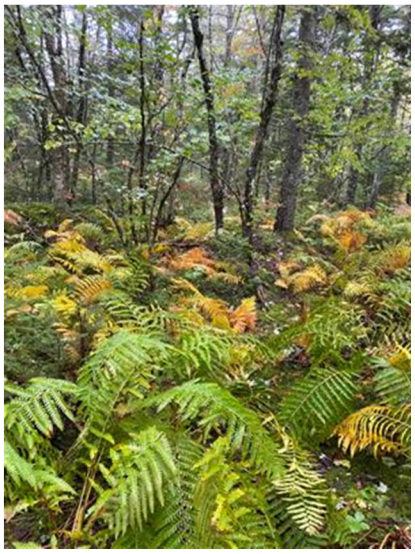
Approximate total area: 0.06 ha
Delineated: September 27, 2022
Hydrological Features: The soil conditions in WL-52-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included aquatic fauna, drainage patterns, presence of surface water, and high-water table.

Vegetation Profile of WL-52-2022

Stratum	Plant Species
Tree	balsam fir, red maple, black spruce, paper birch, striped maple
Sapling/Shrub	yellow birch, balsam fir, black spruce, mountain holly, northern wild raisin
Herb	cinnamon fern, goldthread, bunchberry, three-leaved false Solomon's seal, partridgeberry (*Mitchella repens*)

Soil Profile of WL-52-2022

Depth	Matrix	Redox Features	Texture
0-10 cm	histosol	N/A	fibric texture
10-30 cm	7.5 YR 4/2	N/A	100% silty clay loam
30 cm	restrictive layer	N/A	bedrock

WL-53-2022 – Mixedwood Treed Swamp

Approximate total area: 0.09 ha
Delineated: September 27, 2022
Hydrological Features: The soil conditions in WL-53-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, surface water, and high-water table (at 15 cm).

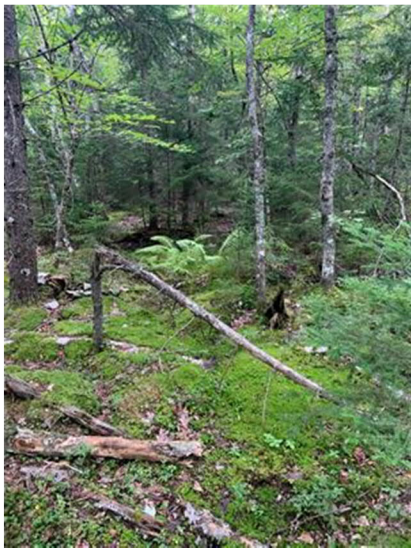
Vegetation Profile of WL-53-2022

Stratum	Plant Species
Tree	red maple, black spruce, balsam fir
Sapling/Shrub	red maple, black spruce, balsam fir, American witch-hazel
Herb	cinnamon fern, goldthread, three-leaved false Solomon's seal, velvet-leaved blueberry

Soil Profile of WL-53-2022

Depth	Matrix	Redox Features	Texture
0-35 cm	histosol	N/A	fibric texture
35 cm	restrictive layer	N/A	bedrock





WL-54-2022 – Bog

Approximate total area: 0.31 ha
Delineated: September 28, 2022
Hydrological Features: The soil conditions in WL-54-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of surface water, stunted vegetative growth, and high-water table (at 0 cm).

Vegetation Profile of WL-54-2022

Stratum	Plant Species
Tree	--
Sapling/Shrub	common winterberry
Herb	rough-stemmed goldenrod, calico aster (*Symphyotrichum lateriflorum*), crested wood fern, tawny cottongrass, common woolly bulrush

Soil Profile of WL-54-2022

Depth	Matrix	Redox Features	Texture
0-100 cm	histosol	N/A	humic texture
100-110 cm	7.5 YR 4/1	N/A	clay
100 cm	restrictive layer	N/A	gravel



WL-55-2022 – Bog

Approximate total area: 12.99 ha
Delineated: September 28, 2022
Hydrological Features: The soil conditions in WL-55-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included surface water, water stained leaves, stunted vegetative growth, and high-water table (at 10 cm).

Vegetation Profile of WL-55-2022

Stratum	Plant Species
Tree	black spruce, red maple, balsam fir
Sapling/Shrub	black spruce, balsam fir, red maple, mountain holly, northern wild raisin
Herb	cinnamon fern, bristly dewberry, sheep laurel, bunchberry, creeping snowberry, three-seeded sedge, tawny cottongrass

Soil Profile of WL-55-2022

Depth	Matrix	Redox Features	Texture
0-130 cm	histosol	N/A	fibric texture



WL-56-2022 – Disturbed Swamp

Approximate total area: 0.23 ha
Delineated: September 28, 2022
Hydrological Features: The soil conditions in WL-56-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included surface water (up to 50 cm in depth) and high-water table (at 0 cm).

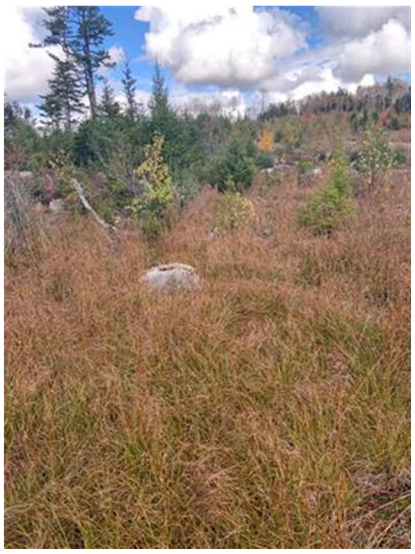
Vegetation Profile of WL-56-2022

Stratum	Plant Species
Tree	black spruce, red maple, gray birch
Sapling/Shrub	black spruce, red maple, gray birch, sheep laurel, willow species (willow sp.)
Herb	common woolly bulrush, goldthread

Soil Profile of WL-56-2022

Depth	Matrix	Redox Features	Texture
30-0 cm	water	N/A	
0-20 cm	histosol 10 YR 7	N/A	humic texture
20 cm	restrictive layer	N/A	bedrock





WL-57-2022 – Mixedwood Treed Swamp

Approximate total area: 0.28 ha
Delineated: September 28, 2022
Hydrological Features: The soil conditions in WL-57-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of surface water, aquatic fauna, water stained leaves, drainage patterns and high-water table (at 5 cm).

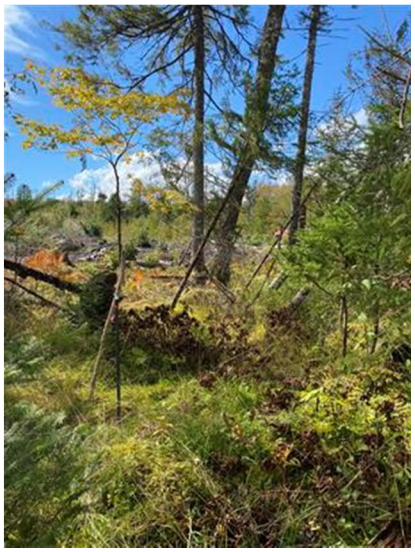
Vegetation Profile of WL-57-2022

Stratum	Plant Species
Tree	yellow birch, red maple, black spruce, balsam fir
Sapling/Shrub	balsam fir, red maple, black spruce, white ash, yellow birch
Herb	fowl manna grass, fringed sedge, sensitive fern, northern beech fern, dwarf red raspberry

Soil Profile of WL-57-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	fibric texture
20 cm	restrictive layer	N/A	bedrock





WL-58-2022 – Bog

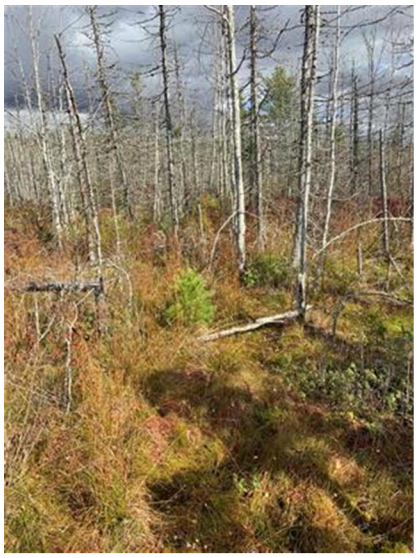
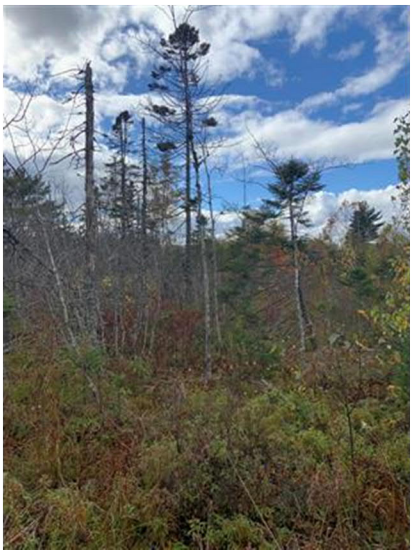
Approximate total area: 1.13 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-58-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of surface water, water stained leaves, stunted vegetative growth, and high-water table (at 0 cm).

Vegetation Profile of WL-58-2022

Stratum	Plant Species
Tree	black spruce, red maple
Sapling/Shrub	black spruce, sheep laurel, common winterberry, northern wild raisin, red maple
Herb	cinnamon fern, three-leaved false Solomon's seal, tawny cottongrass, large cranberry, three-seeded sedge

Soil Profile of WL-58-2022

Depth	Matrix	Redox Features	Texture
15-0 cm	fibric histosol	N/A	undecomposed sphagnum
0-120 cm	histosol	N/A	humic texture


WL-59-2022 – Mixedwood Treed Swamp

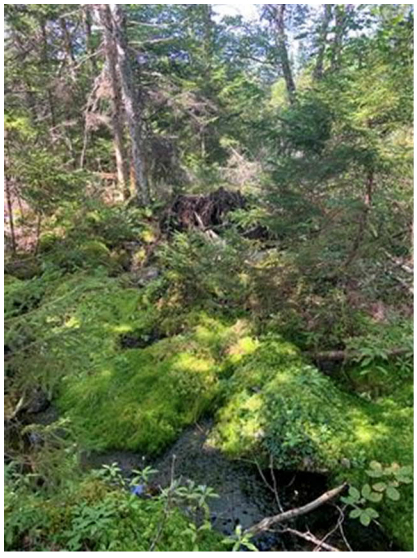
Approximate total area: 6.28 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-59-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included the presence of water stained leaves, sediment deposits, drift deposits, drainage patterns, surface water, and high-water table (at 0 cm).

Vegetation Profile of WL-59-2022

Stratum	Plant Species
Tree	black spruce, red maple, balsam fir, white ash
Sapling/Shrub	red maple, balsam fir, yellow birch, black spruce
Herb	tussock sedge, Canada manna grass, goldthread, bunchberry, wild sarsaparilla, three-leaved false Solomon's seal, northern water horehound

Soil Profile of WL-59-2022

Depth	Matrix	Redox Features	Texture
2-0 cm	N/A	N/A	undecomposed sphagnum
0-30 cm	histosol	N/A	mesic texture
30 cm	restrictive layer	N/A	bedrock



WL-60-2022 – Shrub Swamp

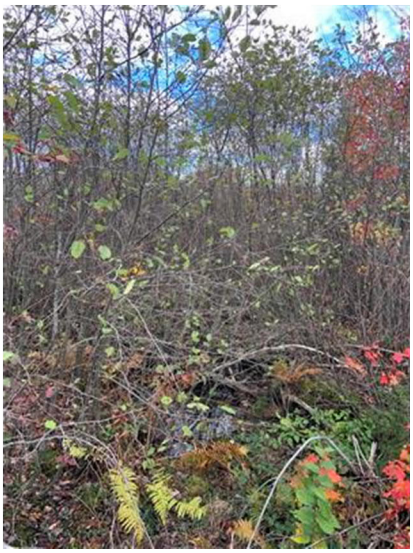
Approximate total area: 0.65 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-60-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included surface water (up to 15 cm in depth) and high-water table (at 0 cm).

Vegetation Profile of WL-60-2022

Stratum	Plant Species
Tree	red maple, black spruce, balsam fir, gray birch
Sapling/Shrub	red maple, speckled alder, common winterberry
Herb	dwarf red raspberry, three-leaved false Solomon's seal, New York fern, violet species (viola sp.)

Soil Profile of WL-60-2022

Depth	Matrix	Redox Features	Texture
0-120 cm	histosol	N/A	humic texture


WL-61-2022 – Shrub Swamp (with sparse tree canopy)

Approximate total area: 1.83 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-61-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included drainage patterns, water stained leaves, and high-water table (at 10 cm).

Vegetation Profile of WL-61-2022

Stratum	Plant Species
Tree	red maple, balsam fir
Sapling/Shrub	speckled alder, common winterberry, balsam fir, black spruce, northern wild raisin
Herb	royal fern, cinnamon fern, three-leaved false Solomon's seal, whorled wood aster, dwarf red raspberry, bluejoint reed grass

Soil Profile of WL-61-2022

Depth	Matrix	Redox Features	Texture
5-0 cm	N/A	N/A	undecomposed sphagnum
0-20 cm	histosol		mesic texture
20 cm	restrictive layer	N/A	bedrock



WL-62-2022 – Shrub Swamp (with mixedwood tree canopy)

Approximate total area: 3.87 ha
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-62-2022 were saturated near the surface (saturated at 0 inches). Other indicators of wetland hydrology included surface water (up to 10 cm in depth) and high-water table (at 10 cm).

Vegetation Profile of WL-62-2022

Stratum	Plant Species
Tree	red maple, yellow birch, black spruce
Sapling/Shrub	black spruce, speckled alder, red maple, sheep laurel
Herb	evergreen wood fern (*Dryopteris intermedia*), crested wood fern, bunchberry, northern starflower, wild lily-of-the-valley, goldthread, bristly dewberry, whorled wood aster, grass sp.

Soil Profile of WL-62-2022

Depth	Matrix	Redox Features	Texture
0-13 cm	histosol	N/A	humic texture
13-40 cm	5 YR 4/1	N/A	clay
40 cm +	restrictive layer	N/A	bedrock



WL-63-2022 – Disturbed Mixedwood Treed Swamp

Approximate total area: 8.63 ha

AA WL-63-2022
Delineated: September 29, 2022
Hydrological Features: The soil conditions in WL-63-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included surface waszater, aquatic fauna, drainage patterns, stunted vegetative growth and high-water table (at 0 cm).

Vegetation Profile of WL-63-2022

Stratum	Plant Species
Tree	black spruce, red maple, balsam fir, white ash, paper birch
Sapling/Shrub	speckled alder, white ash, black spruce
Herb	Canna manna grass, bristly dewberry, three-leaved false Solomon's seal, cinnamon fern

Soil Profile of WL-63-2022

Depth	Matrix	Redox Features	Texture
0-35 cm	histosol	N/A	mesic texture
35 cm	restrictive layer	N/A	bedrock



AA WL-64-2022

Delineated: September 29, 2022

Hydrological Features: The soil conditions in WL-64-2022 were saturated near the surface (saturated at 0 cm). Other indicators of wetland hydrology included water stained leaves, surface water and high-water table (at 0 cm).

Vegetation Profile of WL-64-2022

Stratum	Plant Species
Tree	--
Sapling/Shrub	black spruce, yellow birch, red maple, sheep laurel
Herb	common woolly bulrush, bunchberry, bristly dewberry, rough-stemmed goldenrod, tawny cottongrass, three-seeded sedge

Soil Profile of WL-64-2022

Depth	Matrix	Redox Features	Texture
0-20 cm	histosol	N/A	mesic texture
20 cm	restrictive layer	N/A	bedrock

Appendix B

Wetland Functional Assessment WESP-AC Summaries

DILLON CONSULTING

Assessment Area (AA) Results:

Wetland ID: WL-1-2021

Date: August 4, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.893775 -64.317455

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.78	Moderate	3.44	Lower	4.77	1.53
Stream Flow Support (SFS)	1.29	Lower	5.96	Moderate	1.04	3.97
Water Cooling (WC)	6.00	Higher	0.62	Lower	4.00	0.34
Sediment Retention & Stabilisation (SR)	3.92	Moderate	1.21	Moderate	5.26	0.59
Phosphorus Retention (PR)	2.87	Lower	0.86	Lower	5.54	0.67
Nitrate Removal & Retention (NR)	3.54	Moderate	2.22	Lower	5.33	2.22
Carbon Sequestration (CS)	1.87	Lower			6.08	
Organic Nutrient Export (OE)	9.44	Higher			6.17	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.93	Moderate	3.05	Moderate	5.50	2.88
Amphibian & Turtle Habitat (AM)	3.55	Lower	3.62	Moderate	4.98	4.74
Waterbird Feeding Habitat (WBF)	3.74	Moderate	5.00	Moderate	2.85	5.00
Waterbird Nesting Habitat (WBN)	4.27	Moderate	5.00	Higher	3.10	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.33	Moderate	5.00	Moderate	6.38	5.00
Pollinator Habitat (POL)	9.28	Higher	0.00	Lower	7.69	0.00
Native Plant Habitat (PH)	5.78	Moderate	4.69	Lower	6.21	4.69
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.81	Higher		4.97
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			4.79	Moderate		2.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.78	Moderate	3.44	Lower	4.77	1.53
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.49	Moderate	1.83	Lower	5.82	1.69
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.43	Higher	4.59	Moderate	5.17	3.18
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.29	Moderate	3.86	Moderate	3.58	3.97
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.37	Higher	4.11	Lower	7.22	4.11
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			7.30	Higher		3.73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.01911554	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	6.368069214	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	34.06065762	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	12.70521441	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.44341034	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-2-2021

Date: August 4, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.891959

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.85	Lower	3.95	Moderate	4.07	1.75
Stream Flow Support (SFS)	1.29	Lower	6.55	Moderate	1.04	4.36
Water Cooling (WC)	6.75	Higher	0.66	Lower	4.50	0.36
Sediment Retention & Stabilisation (SR)	2.78	Lower	1.13	Moderate	4.37	0.56
Phosphorus Retention (PR)	4.64	Moderate	0.98	Lower	6.65	0.76
Nitrate Removal & Retention (NR)	2.16	Lower	4.03	Moderate	4.33	4.03
Carbon Sequestration (CS)	3.64	Moderate			6.92	
Organic Nutrient Export (OE)	8.45	Higher			5.52	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.08	Moderate	3.02	Moderate	5.16	2.87
Amphibian & Turtle Habitat (AM)	3.59	Moderate	4.61	Moderate	5.00	5.56
Waterbird Feeding Habitat (WBF)	4.95	Moderate	6.67	Moderate	3.77	6.67
Waterbird Nesting Habitat (WBN)	3.07	Moderate	6.67	Higher	2.22	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	7.16	Moderate	6.67	Moderate	6.23	6.67
Pollinator Habitat (POL)	6.99	Moderate	6.67	Moderate	5.79	6.67
Native Plant Habitat (PH)	3.15	Lower	6.23	Moderate	5.16	6.23
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.62	Higher		4.63
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			7.31	Higher		3.69
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.85	Lower	3.95	Moderate	4.07	1.75
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.97	Moderate	3.04	Lower	6.24	2.91
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.80	Higher	4.98	Moderate	4.79	3.44
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.64	Moderate	5.13	Higher	3.60	5.22
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.46	Moderate	6.59	Moderate	5.98	6.59
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.97	Higher		4.16

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	11.2549017	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	12.06368447	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	33.85196834	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	18.6519461	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.60932965	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-3-2021

Date: August 4, 2022

Observer: Chris Kennedy

Latitude & Longitude (decimal degrees): 44.886093 -64.324184

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.66	Lower	6.77	Higher	3.93	3.00
Stream Flow Support (SFS)	1.63	Moderate	6.60	Moderate	1.31	4.39
Water Cooling (WC)	6.75	Higher	0.66	Lower	4.50	0.36
Sediment Retention & Stabilisation (SR)	3.38	Lower	1.51	Moderate	4.83	0.74
Phosphorus Retention (PR)	4.19	Moderate	1.07	Moderate	6.37	0.83
Nitrate Removal & Retention (NR)	1.96	Lower	5.00	Moderate	4.19	5.00
Carbon Sequestration (CS)	5.26	Moderate			7.69	
Organic Nutrient Export (OE)	9.17	Higher			5.99	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.58	Moderate	3.30	Moderate	5.36	3.02
Amphibian & Turtle Habitat (AM)	2.33	Lower	3.28	Moderate	4.34	4.47
Waterbird Feeding Habitat (WBF)	5.39	Moderate	2.50	Lower	4.11	2.50
Waterbird Nesting Habitat (WBN)	3.96	Moderate	2.50	Moderate	2.87	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.81	Higher	2.50	Lower	6.80	2.50
Pollinator Habitat (POL)	7.99	Higher	0.00	Lower	6.62	0.00
Native Plant Habitat (PH)	4.84	Moderate	4.47	Lower	5.83	4.47
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.29	Higher		4.53
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.00	Moderate		2.59
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.66	Lower	6.77	Higher	3.93	3.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.48	Moderate	3.76	Moderate	6.73	3.60
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.35	Higher	5.06	Moderate	5.14	3.49
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.86	Moderate	2.47	Moderate	3.30	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.44	Higher	3.40	Lower	6.61	3.40
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.64	Moderate		3.56

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	17.99826948	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.87015668	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	37.20113478	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	9.543952664	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	25.26830052	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-4-2021-BM

Date: August 4 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.878985 -64.324558

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.38	Higher	3.83	Moderate	8.95	1.70
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.22	Lower	0.43	Lower	5.14	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	6.62	Higher			8.33	
Organic Nutrient Export (OE)	7.83	Higher			5.12	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.11	Higher	1.07	Lower	5.99	1.82
Amphibian & Turtle Habitat (AM)	3.16	Lower	1.35	Lower	4.78	2.88
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.04	Moderate	2.50	Lower	6.13	2.50
Pollinator Habitat (POL)	7.77	Moderate	0.00	Lower	6.44	0.00
Native Plant Habitat (PH)	4.58	Moderate	4.19	Lower	5.73	4.19
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			10.00	Higher		5.44
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			6.24	Higher		3.18
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.38	Higher	3.83	Moderate	8.95	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.34	Higher	1.89	Lower	8.97	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.66	Higher	0.71	Lower	4.38	1.21
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.90	Lower	0.81	Lower	2.87	1.73
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.11	Higher	3.21	Lower	6.27	3.21
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.12	Higher		4.31

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	35.99043793	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	15.75297658	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.020679956	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.537685355	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	22.8225848	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-5-2021

Date: August 3, 2022

Observer:Zacharye Simai, Jenny Bowie

Latitude & Longitude (decimal degrees): 44.817310 -64.343179

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.94	Lower	4.51	Moderate	4.14	2.00
Stream Flow Support (SFS)	1.52	Moderate	7.78	Moderate	1.22	5.18
Water Cooling (WC)	5.25	Moderate	1.13	Lower	3.50	0.61
Sediment Retention & Stabilisation (SR)	4.39	Moderate	7.64	Higher	5.62	3.74
Phosphorus Retention (PR)	1.00	Lower	6.86	Higher	4.37	5.33
Nitrate Removal & Retention (NR)	3.46	Moderate	10.00	Higher	5.27	10.00
Carbon Sequestration (CS)	0.53	Lower			5.45	
Organic Nutrient Export (OE)	7.72	Higher			5.04	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	2.27	Moderate	1.54	Moderate	1.23	0.96
Aquatic Invertebrate Habitat (INV)	5.72	Higher	3.39	Moderate	5.83	3.07
Amphibian & Turtle Habitat (AM)	3.82	Moderate	4.18	Moderate	5.13	5.20
Waterbird Feeding Habitat (WBF)	3.69	Moderate	6.67	Moderate	2.81	6.67
Waterbird Nesting Habitat (WBN)	4.27	Moderate	6.67	Higher	3.10	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	7.05	Moderate	6.67	Moderate	6.13	6.67
Pollinator Habitat (POL)	6.37	Moderate	6.67	Moderate	5.28	6.67
Native Plant Habitat (PH)	4.54	Moderate	6.03	Moderate	5.71	6.03
Public Use & Recognition (PU)			1.99	Moderate		1.66
Wetland Sensitivity (Sens)			7.95	Higher		4.44
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.26	Moderate		2.23
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.94	Lower	4.51	Moderate	4.14	2.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.37	Moderate	9.08	Higher	5.40	8.18
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.38	Higher	5.94	Moderate	4.86	4.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.54	Moderate	5.24	Higher	3.79	5.28
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.52	Moderate	6.56	Moderate	5.92	6.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.10	Moderate		3.33

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.25441151	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.57109175	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	37.90986808	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	18.5460962	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.74704335	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-6-7-2021

Date: August 3, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees): 44.820691 -64.34222

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.72	Lower	7.33	Higher	4.72	3.25
Stream Flow Support (SFS)	1.29	Lower	7.44	Moderate	1.04	4.95
Water Cooling (WC)	6.75	Higher	0.70	Lower	4.50	0.38
Sediment Retention & Stabilisation (SR)	3.85	Moderate	2.58	Moderate	5.20	1.26
Phosphorus Retention (PR)	2.36	Lower	1.88	Moderate	5.22	1.46
Nitrate Removal & Retention (NR)	3.00	Moderate	4.50	Moderate	4.94	4.50
Carbon Sequestration (CS)	3.48	Moderate			6.84	
Organic Nutrient Export (OE)	8.02	Higher			5.24	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.42	Moderate	2.50	Moderate	5.71	2.59
Amphibian & Turtle Habitat (AM)	3.36	Lower	3.20	Moderate	4.88	4.40
Waterbird Feeding Habitat (WBF)	2.62	Moderate	5.00	Moderate	1.99	5.00
Waterbird Nesting Habitat (WBN)	3.41	Moderate	5.00	Higher	2.47	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.13	Moderate	5.00	Moderate	6.20	5.00
Pollinator Habitat (POL)	7.96	Higher	0.00	Lower	6.60	0.00
Native Plant Habitat (PH)	2.42	Lower	4.27	Lower	4.87	4.27
Public Use & Recognition (PU)			2.51	Moderate		2.02
Wetland Sensitivity (Sens)			10.00	Higher		5.73
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			9.70	Higher		4.84
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.72	Lower	7.33	Higher	4.72	3.25
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.51	Moderate	3.74	Moderate	6.20	3.45
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.70	Higher	5.49	Moderate	4.91	3.80
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.65	Lower	3.82	Moderate	3.38	3.94
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.90	Higher	4.04	Lower	6.24	4.04
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			9.85	Higher		5.28

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	27.27074507	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	13.14835061	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	36.79946796	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	10.1045859	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.89852776	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-8-2021

Date: August 3, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees): 44.823314 -64.342521

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.97	Lower	7.22	Higher	4.16	3.20
Stream Flow Support (SFS)	2.07	Moderate	7.84	Higher	1.67	5.22
Water Cooling (WC)	4.50	Moderate	1.39	Lower	3.00	0.75
Sediment Retention & Stabilisation (SR)	3.56	Moderate	2.41	Moderate	4.97	1.18
Phosphorus Retention (PR)	1.16	Lower	1.61	Moderate	4.47	1.25
Nitrate Removal & Retention (NR)	4.07	Moderate	3.00	Lower	5.71	3.00
Carbon Sequestration (CS)	3.38	Moderate			6.80	
Organic Nutrient Export (OE)	9.06	Higher			5.92	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.67	Moderate	1.63	Moderate	2.54	1.02
Aquatic Invertebrate Habitat (INV)	4.59	Moderate	3.88	Moderate	5.36	3.33
Amphibian & Turtle Habitat (AM)	4.39	Moderate	3.69	Moderate	5.43	4.80
Waterbird Feeding Habitat (WBF)	4.04	Moderate	5.00	Moderate	3.08	5.00
Waterbird Nesting Habitat (WBN)	3.66	Moderate	5.00	Higher	2.65	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.26	Moderate	5.00	Moderate	6.32	5.00
Pollinator Habitat (POL)	8.39	Higher	0.00	Lower	6.95	0.00
Native Plant Habitat (PH)	4.19	Moderate	4.42	Lower	5.58	4.42
Public Use & Recognition (PU)			1.99	Moderate		1.66
Wetland Sensitivity (Sens)			7.30	Higher		4.25
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			5.27	Moderate		2.72
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.97	Lower	7.22	Higher	4.16	3.20
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.56	Moderate	2.67	Lower	6.14	2.41
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.06	Higher	6.11	Moderate	4.96	4.16
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.01	Moderate	4.03	Moderate	4.08	4.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.50	Higher	4.07	Lower	6.62	4.07
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			6.29	Moderate		3.48

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	21.43743135	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.493967013	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	43.09730128	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	16.17922123	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	30.53029538	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-9/10-2021

Date: August 3, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.835277 -64.336986

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	4.27	Moderate	4.40	Moderate	5.13	1.95
Stream Flow Support (SFS)	1.17	Lower	0.00	Lower	0.94	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.73	Moderate	0.45	Lower	6.67	0.22
Phosphorus Retention (PR)	1.20	Lower	0.43	Lower	4.50	0.33
Nitrate Removal & Retention (NR)	4.16	Moderate	7.50	Higher	5.78	7.50
Carbon Sequestration (CS)	0.67	Lower			5.51	
Organic Nutrient Export (OE)	9.20	Higher			6.01	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	8.68	Higher	0.62	Lower	7.03	1.58
Amphibian & Turtle Habitat (AM)	2.27	Lower	1.97	Lower	4.31	3.38
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.91	Moderate	10.00	Higher	5.14	10.00
Pollinator Habitat (POL)	6.49	Moderate	0.00	Lower	5.38	0.00
Native Plant Habitat (PH)	3.02	Lower	3.51	Lower	5.11	3.51
Public Use & Recognition (PU)			2.00	Moderate		1.67
Wetland Sensitivity (Sens)			7.66	Higher		4.35
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			5.10	Moderate		2.64
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	4.27	Moderate	4.40	Moderate	5.13	1.95
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.33	Moderate	5.15	Moderate	6.14	5.09
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.98	Higher	0.41	Lower	5.27	1.05
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.36	Lower	1.18	Lower	2.59	2.03
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.81	Moderate	7.25	Moderate	5.29	7.25
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			6.38	Moderate		3.49

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	18.78961245	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.30557212	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.866777126	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.602821649	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.14319165	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-11-2021

Date: August 3, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.839113 -64.328515

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	4.86	Moderate	4.17	Moderate	5.57	1.85
Stream Flow Support (SFS)	1.63	Moderate	7.05	Moderate	1.31	4.69
Water Cooling (WC)	6.75	Higher	0.68	Lower	4.50	0.37
Sediment Retention & Stabilisation (SR)	5.40	Moderate	0.83	Lower	6.41	0.41
Phosphorus Retention (PR)	3.96	Moderate	0.43	Lower	6.22	0.33
Nitrate Removal & Retention (NR)	2.92	Moderate	3.33	Lower	4.88	3.33
Carbon Sequestration (CS)	6.21	Moderate			8.13	
Organic Nutrient Export (OE)	10.00	Higher			6.67	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.01	Higher	2.88	Moderate	5.94	2.79
Amphibian & Turtle Habitat (AM)	1.74	Lower	3.04	Moderate	4.03	4.26
Waterbird Feeding Habitat (WBF)	4.73	Moderate	2.50	Lower	3.60	2.50
Waterbird Nesting Habitat (WBN)	3.37	Moderate	2.50	Moderate	2.44	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.68	Higher	2.50	Lower	6.69	2.50
Pollinator Habitat (POL)	8.59	Higher	0.00	Lower	7.12	0.00
Native Plant Habitat (PH)	6.05	Moderate	4.60	Lower	6.32	4.60
Public Use & Recognition (PU)			1.33	Lower		1.21
Wetland Sensitivity (Sens)			4.31	Lower		3.40
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			4.95	Moderate		2.57
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	4.86	Moderate	4.17	Moderate	5.57	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	5.41	Higher	2.43	Lower	7.27	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.05	Higher	5.29	Moderate	5.64	3.65
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.35	Moderate	2.32	Moderate	3.02	3.06
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.02	Higher	3.49	Lower	6.92	3.49
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			4.63	Moderate		2.98

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	20.28468766	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	13.16502701	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	42.59346845	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	7.775771051	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.94764357	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-12-2021

Date: August 3, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.854028 -64.332373

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.21	Lower	4.17	Moderate	4.34	1.85
Stream Flow Support (SFS)	1.13	Lower	0.00	Lower	0.91	0.00
Water Cooling (WC)	7.38	Higher	0.68	Lower	4.92	0.37
Sediment Retention & Stabilisation (SR)	4.05	Moderate	0.83	Lower	5.36	0.41
Phosphorus Retention (PR)	3.77	Moderate	0.43	Lower	6.11	0.33
Nitrate Removal & Retention (NR)	2.68	Lower	7.50	Higher	4.71	7.50
Carbon Sequestration (CS)	3.01	Lower			6.62	
Organic Nutrient Export (OE)	8.41	Higher			5.50	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	7.17	Higher	2.90	Moderate	6.42	2.81
Amphibian & Turtle Habitat (AM)	4.10	Moderate	1.44	Lower	5.27	2.95
Waterbird Feeding Habitat (WBF)	3.01	Moderate	0.00	Lower	2.29	0.00
Waterbird Nesting Habitat (WBN)	3.77	Moderate	0.00	Lower	2.73	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.53	Higher	0.00	Lower	6.55	0.00
Pollinator Habitat (POL)	8.89	Higher	0.00	Lower	7.37	0.00
Native Plant Habitat (PH)	3.94	Moderate	4.64	Lower	5.48	4.64
Public Use & Recognition (PU)			1.33	Lower		1.21
Wetland Sensitivity (Sens)			7.42	Higher		4.29
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			4.52	Moderate		2.36
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.21	Lower	4.17	Moderate	4.34	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.72	Moderate	5.21	Moderate	6.16	5.12
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.22	Higher	2.05	Lower	5.43	1.93
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.14	Moderate	0.86	Lower	3.67	1.77
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.84	Higher	3.09	Lower	6.92	3.09
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			5.97	Moderate		3.32

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.39239761	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.36682683	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	14.78443463	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.713121435	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.24943198	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-13-2021

Date: August 3, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.854487 -64.330048

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.62	Lower	4.17	Moderate	4.64	1.85
Stream Flow Support (SFS)	1.29	Lower	7.24	Moderate	1.04	4.82
Water Cooling (WC)	5.25	Moderate	0.68	Lower	3.50	0.37
Sediment Retention & Stabilisation (SR)	4.27	Moderate	0.83	Lower	5.53	0.41
Phosphorus Retention (PR)	4.06	Moderate	0.43	Lower	6.29	0.33
Nitrate Removal & Retention (NR)	3.86	Moderate	3.33	Lower	5.56	3.33
Carbon Sequestration (CS)	3.32	Moderate			6.77	
Organic Nutrient Export (OE)	9.75	Higher			6.38	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	7.89	Higher	3.70	Moderate	6.71	3.24
Amphibian & Turtle Habitat (AM)	4.60	Moderate	3.12	Moderate	5.53	4.33
Waterbird Feeding Habitat (WBF)	4.86	Moderate	2.50	Lower	3.70	2.50
Waterbird Nesting Habitat (WBN)	4.69	Moderate	2.50	Moderate	3.40	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.79	Higher	2.50	Lower	6.78	2.50
Pollinator Habitat (POL)	9.49	Higher	0.00	Lower	7.87	0.00
Native Plant Habitat (PH)	6.53	Higher	4.88	Lower	6.51	4.88
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.27
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			6.30	Higher		3.21
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.62	Lower	4.17	Moderate	4.64	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.07	Moderate	2.43	Lower	6.40	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.90	Higher	5.56	Moderate	5.56	3.81
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.85	Moderate	2.37	Moderate	4.03	3.10
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.72	Higher	3.67	Lower	7.46	3.67
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.15	Higher		4.24

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	15.09049806	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.904942784	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	43.90400974	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	9.114047269	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.00902435	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-14-2021

Date: August 3 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.85641 -64.324327

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.15	Lower	6.58	Moderate	4.29	2.92
Stream Flow Support (SFS)	2.07	Moderate	6.76	Moderate	1.67	4.50
Water Cooling (WC)	6.00	Higher	1.28	Lower	4.00	0.70
Sediment Retention & Stabilisation (SR)	3.91	Moderate	2.09	Moderate	5.25	1.02
Phosphorus Retention (PR)	2.75	Lower	1.88	Moderate	5.46	1.46
Nitrate Removal & Retention (NR)	2.91	Moderate	5.42	Moderate	4.87	5.42
Carbon Sequestration (CS)	2.98	Lower			6.60	
Organic Nutrient Export (OE)	9.13	Higher			5.97	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	2.11	Moderate	0.93	Lower	1.15	0.58
Aquatic Invertebrate Habitat (INV)	5.74	Higher	3.46	Moderate	5.83	3.11
Amphibian & Turtle Habitat (AM)	3.85	Moderate	3.80	Moderate	5.14	4.89
Waterbird Feeding Habitat (WBF)	3.81	Moderate	5.00	Moderate	2.90	5.00
Waterbird Nesting Habitat (WBN)	3.68	Moderate	5.00	Higher	2.67	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.79	Higher	5.00	Moderate	6.78	5.00
Pollinator Habitat (POL)	9.90	Higher	0.00	Lower	8.20	0.00
Native Plant Habitat (PH)	6.74	Higher	4.99	Lower	6.59	4.99
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.18
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			7.60	Higher		3.83
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.15	Lower	6.58	Moderate	4.29	2.92
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.52	Moderate	4.27	Moderate	6.08	4.02
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.43	Higher	5.30	Moderate	5.17	3.63
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.27	Moderate	3.97	Moderate	3.76	4.05
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	9.02	Higher	4.17	Lower	7.70	4.17
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.80	Higher		4.51

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	20.69418973	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	15.05300486	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	39.361794	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	12.99932653	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	37.5667971	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-15-2021

Date: August 4 2022

Observer: Chris Kennedy

Latitude & Longitude (decimal degrees): 44.858032 -64.322663

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.52	Lower	3.83	Moderate	4.57	1.70
Stream Flow Support (SFS)	0.92	Lower	0.00	Lower	0.74	0.00
Water Cooling (WC)	6.00	Higher	0.65	Lower	4.00	0.35
Sediment Retention & Stabilisation (SR)	4.56	Moderate	0.95	Lower	5.76	0.46
Phosphorus Retention (PR)	3.53	Moderate	0.43	Lower	5.96	0.33
Nitrate Removal & Retention (NR)	2.48	Lower	3.33	Lower	4.57	3.33
Carbon Sequestration (CS)	3.37	Moderate			6.79	
Organic Nutrient Export (OE)	7.69	Higher			5.03	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.51	Lower	2.74	Moderate	4.51	2.72
Amphibian & Turtle Habitat (AM)	3.43	Lower	3.37	Moderate	4.92	4.54
Waterbird Feeding Habitat (WBF)	3.81	Moderate	5.00	Moderate	2.90	5.00
Waterbird Nesting Habitat (WBN)	3.81	Moderate	5.00	Higher	2.76	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.57	Moderate	5.00	Moderate	5.72	5.00
Pollinator Habitat (POL)	8.51	Higher	0.00	Lower	7.06	0.00
Native Plant Habitat (PH)	2.00	Lower	4.26	Lower	4.70	4.26
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.82	Higher		4.40
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.99	Higher		3.54
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.52	Lower	3.83	Moderate	4.57	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.03	Moderate	2.45	Lower	6.28	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.99	Higher	1.93	Lower	4.30	1.87
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.01	Moderate	3.84	Moderate	3.52	3.95
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.10	Higher	4.04	Lower	6.44	4.04
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.40	Higher		3.97

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.49978731	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.867533754	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.56310751	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	11.55518972	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.71902926	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-16-2021

Date: August 4, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.901707 -64.295773

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.80	Higher	4.93	Moderate	8.51	2.19
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.19	Moderate	2.04	Moderate	5.46	1.00
Phosphorus Retention (PR)	3.25	Moderate	1.29	Moderate	5.78	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	7.45	Higher			8.72	
Organic Nutrient Export (OE)	6.07	Moderate			3.97	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	0.95	Lower	0.42	Lower	3.88	1.47
Amphibian & Turtle Habitat (AM)	0.56	Lower	4.10	Moderate	3.42	5.14
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.22	Moderate	10.00	Higher	5.42	10.00
Pollinator Habitat (POL)	7.35	Moderate	10.00	Higher	6.09	10.00
Native Plant Habitat (PH)	2.07	Lower	7.17	Moderate	4.73	7.17
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.28	Higher		4.25
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.72	Higher		3.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	8.80	Higher	4.93	Moderate	8.51	2.19
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.11	Higher	3.89	Moderate	8.75	3.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.91	Moderate	0.28	Lower	2.96	0.98
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.33	Lower	2.46	Moderate	2.05	3.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.28	Moderate	9.53	Higher	5.75	9.53
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.00	Higher		3.83

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	43.37155839	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	31.53364407	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.106138601	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.822794466	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.84110994	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-17-2021

Date: August 4, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees):44.899985 -64.298281

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.76	Lower	5.02	Moderate	4.01	2.23
Stream Flow Support (SFS)	1.29	Lower	8.14	Higher	1.04	5.42
Water Cooling (WC)	6.75	Higher	0.75	Lower	4.50	0.41
Sediment Retention & Stabilisation (SR)	3.73	Moderate	1.51	Moderate	5.11	0.74
Phosphorus Retention (PR)	4.51	Moderate	1.29	Moderate	6.57	1.00
Nitrate Removal & Retention (NR)	3.53	Moderate	3.33	Lower	5.33	3.33
Carbon Sequestration (CS)	4.57	Moderate			7.36	
Organic Nutrient Export (OE)	7.58	Higher			4.95	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.70	Higher	3.85	Moderate	5.82	3.32
Amphibian & Turtle Habitat (AM)	4.00	Moderate	5.23	Moderate	5.22	6.07
Waterbird Feeding Habitat (WBF)	6.19	Moderate	6.67	Moderate	4.71	6.67
Waterbird Nesting Habitat (WBN)	4.35	Moderate	6.67	Higher	3.15	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	7.84	Higher	6.67	Moderate	6.82	6.67
Pollinator Habitat (POL)	8.42	Higher	6.67	Moderate	6.98	6.67
Native Plant Habitat (PH)	5.01	Moderate	6.82	Moderate	5.90	6.82
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			4.67	Moderate		3.50
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			5.02	Moderate		2.60
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.76	Lower	5.02	Moderate	4.01	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.33	Moderate	2.69	Lower	6.73	2.51
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.45	Higher	6.20	Moderate	4.95	4.23
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.55	Moderate	5.19	Higher	3.92	5.27
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.76	Higher	6.77	Moderate	6.77	6.77
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			4.84	Moderate		3.05

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.87731441	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	11.64515125	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	39.99534335	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	23.60530992	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.51017816	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-1-2022-BM

Date:July 7, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.870366, -64.277107

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.48	Moderate	7.22	Higher	6.78	3.20
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.60	Lower	0.00	Lower	0.40	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.32	Moderate	10.00	0.65
Phosphorus Retention (PR)	10.00	Higher	1.50	Moderate	10.00	1.17
Nitrate Removal & Retention (NR)	10.00	Higher	5.42	Moderate	10.00	5.42
Carbon Sequestration (CS)	6.77	Higher			8.40	
Organic Nutrient Export (OE)	6.19	Moderate			4.05	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	0.30	Lower	3.57	Moderate	3.61	3.16
Amphibian & Turtle Habitat (AM)	3.73	Moderate	6.37	Higher	5.08	7.01
Waterbird Feeding Habitat (WBF)	6.42	Moderate	10.00	Higher	4.89	10.00
Waterbird Nesting Habitat (WBN)	3.99	Moderate	10.00	Higher	2.89	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.04	Moderate	10.00	Higher	6.13	10.00
Pollinator Habitat (POL)	8.77	Higher	10.00	Higher	7.27	10.00
Native Plant Habitat (PH)	1.63	Lower	7.80	Higher	4.55	7.80
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.43	Moderate		4.00
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.15	Higher		3.14
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.48	Moderate	7.22	Higher	6.78	3.20
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.60	Higher	4.08	Moderate	9.80	3.91
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.98	Moderate	2.38	Lower	3.03	2.11
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.62	Moderate	7.64	Higher	3.82	7.70
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.29	Higher	9.63	Higher	6.63	9.63
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.29	Moderate		3.57

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.79090733	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	39.16953979	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.468254487	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	35.29849102	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	70.24985185	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-2-2022-BM

Date:July 7, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.870193,-64.282608

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.64	Moderate	5.30	Moderate	6.90	2.35
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	2.40	Moderate	0.00	Lower	1.60	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	0.38	Lower	10.00	0.19
Phosphorus Retention (PR)	10.00	Higher	0.43	Lower	10.00	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	5.92	Moderate			8.00	
Organic Nutrient Export (OE)	6.19	Moderate			4.05	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	0.33	Lower	3.33	Moderate	3.63	3.04
Amphibian & Turtle Habitat (AM)	2.83	Lower	6.30	Higher	4.61	6.96
Waterbird Feeding Habitat (WBF)	5.72	Moderate	10.00	Higher	4.35	10.00
Waterbird Nesting Habitat (WBN)	3.79	Moderate	10.00	Higher	2.74	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.48	Moderate	10.00	Higher	6.51	10.00
Pollinator Habitat (POL)	8.54	Higher	10.00	Higher	7.08	10.00
Native Plant Habitat (PH)	2.50	Lower	7.86	Higher	4.90	7.86
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.93	Moderate		4.14
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.64	Moderate	5.30	Moderate	6.90	2.35
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.49	Higher	2.36	Lower	9.75	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.21	Moderate	2.22	Lower	3.18	2.02
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.09	Moderate	7.63	Higher	3.47	7.70
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.36	Higher	9.64	Higher	6.62	9.64
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			7.08	Higher		3.90

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	35.20797316	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.36594547	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.347307168	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	31.22569322	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	70.97780812	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-3-2022-BM

Date:July 7, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.871512, -64.285886

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.48	Lower	5.08	Moderate	3.05	2.25
Stream Flow Support (SFS)	1.52	Moderate	7.93	Higher	1.22	5.27
Water Cooling (WC)	8.40	Higher	1.50	Lower	5.60	0.81
Sediment Retention & Stabilisation (SR)	3.73	Moderate	0.38	Lower	5.11	0.19
Phosphorus Retention (PR)	2.49	Lower	0.43	Lower	5.30	0.33
Nitrate Removal & Retention (NR)	2.83	Moderate	3.33	Lower	4.82	3.33
Carbon Sequestration (CS)	1.49	Lower			5.90	
Organic Nutrient Export (OE)	6.83	Moderate			4.46	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.84	Lower	3.69	Moderate	4.65	3.23
Amphibian & Turtle Habitat (AM)	4.01	Moderate	6.47	Higher	5.22	7.09
Waterbird Feeding Habitat (WBF)	5.13	Moderate	10.00	Higher	3.91	10.00
Waterbird Nesting Habitat (WBN)	3.96	Moderate	10.00	Higher	2.87	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.47	Higher	10.00	Higher	7.37	10.00
Pollinator Habitat (POL)	6.91	Moderate	0.00	Lower	5.72	0.00
Native Plant Habitat (PH)	1.94	Lower	4.36	Lower	4.68	4.36
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			4.90	Moderate		3.57
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.19	Moderate		2.20
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.48	Lower	5.08	Moderate	3.05	2.25
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.19	Moderate	2.36	Lower	5.59	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.65	Higher	6.15	Moderate	4.79	4.19
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.88	Moderate	7.65	Higher	3.81	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.12	Higher	7.39	Moderate	6.65	7.39
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			4.54	Moderate		2.88

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	7.50934049	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.507598629	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	40.87831882	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	29.65064901	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.63994441	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-4-2022-BM

Date:July 7, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.872265, -64.289468

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.89	Lower	4.79	Moderate	3.35	2.13
Stream Flow Support (SFS)	1.93	Moderate	7.72	Moderate	1.56	5.14
Water Cooling (WC)	7.65	Higher	1.90	Lower	5.10	1.03
Sediment Retention & Stabilisation (SR)	3.05	Lower	7.18	Higher	4.57	3.52
Phosphorus Retention (PR)	2.16	Lower	6.86	Higher	5.10	5.33
Nitrate Removal & Retention (NR)	3.08	Moderate	10.00	Higher	5.00	10.00
Carbon Sequestration (CS)	4.07	Moderate			7.12	
Organic Nutrient Export (OE)	8.87	Higher			5.80	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.47	Moderate	3.83	Moderate	5.32	3.31
Amphibian & Turtle Habitat (AM)	4.67	Moderate	6.69	Higher	5.57	7.28
Waterbird Feeding Habitat (WBF)	5.13	Moderate	10.00	Higher	3.91	10.00
Waterbird Nesting Habitat (WBN)	3.39	Moderate	10.00	Higher	2.46	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.10	Higher	10.00	Higher	7.92	10.00
Pollinator Habitat (POL)	9.13	Higher	10.00	Higher	7.56	10.00
Native Plant Habitat (PH)	4.29	Moderate	8.49	Higher	5.61	8.49
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.66	Moderate		3.78
Wetland Ecological Condition (EC)			5.36	Moderate		7.78
Wetland Stressors (STR) (higher score means more stress)			4.63	Moderate		2.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.89	Lower	4.79	Moderate	3.35	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.58	Moderate	9.01	Higher	6.29	8.14
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.30	Higher	6.10	Moderate	5.12	4.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.89	Moderate	7.67	Higher	3.98	7.73
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.32	Higher	9.75	Higher	7.47	9.75
WETLAND CONDITION (EC)			5.36	Moderate		7.78
WETLAND RISK (average of Sensitivity & Stressors)			5.14	Moderate		3.10

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	9.042054598	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	32.26690185	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	44.53608696	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	29.80207543	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.0777123	Moderate

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-5-2022-BM

Date:July 8, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.873185, -64.2912

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.39	Lower	4.85	Moderate	4.47	2.15
Stream Flow Support (SFS)	2.09	Moderate	7.65	Moderate	1.69	5.09
Water Cooling (WC)	7.38	Higher	0.73	Lower	4.92	0.40
Sediment Retention & Stabilisation (SR)	3.22	Lower	0.83	Lower	4.71	0.41
Phosphorus Retention (PR)	2.97	Lower	0.43	Lower	5.60	0.33
Nitrate Removal & Retention (NR)	1.76	Lower	3.33	Lower	4.05	3.33
Carbon Sequestration (CS)	1.77	Lower			6.03	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.07	Lower	3.58	Moderate	4.74	3.17
Amphibian & Turtle Habitat (AM)	2.60	Lower	5.89	Higher	4.49	6.61
Waterbird Feeding Habitat (WBF)	5.18	Moderate	10.00	Higher	3.94	10.00
Waterbird Nesting Habitat (WBN)	6.50	Moderate	10.00	Higher	4.71	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.77	Moderate	10.00	Higher	5.89	10.00
Pollinator Habitat (POL)	7.84	Moderate	10.00	Higher	6.50	10.00
Native Plant Habitat (PH)	2.82	Lower	7.46	Moderate	5.03	7.46
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			4.66	Moderate		3.50
Wetland Ecological Condition (EC)			1.30	Lower		5.83
Wetland Stressors (STR) (higher score means more stress)			10.00	Higher		5.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.39	Lower	4.85	Moderate	4.47	2.15
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.83	Moderate	2.43	Lower	5.56	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.14	Higher	5.82	Moderate	4.45	3.99
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.68	Moderate	7.59	Higher	3.67	7.66
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.83	Higher	9.58	Higher	6.15	9.58
WETLAND CONDITION (EC)			1.30	Lower		5.83
WETLAND RISK (average of Sensitivity & Stressors)			7.33	Higher		4.36

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	16.42317682	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	6.877112471	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.70525899	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	35.48895643	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	65.38560275	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-6-2022-BM

Date: July 8, 2022

Observer:Chris Kennedy, Zacharye Simai

Latitude & Longitude (decimal degrees):44.874262, -64.292873

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.71	Moderate	4.79	Moderate	6.95	2.13
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	6.45	Higher	0.00	Lower	4.30	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	0.38	Lower	10.00	0.19
Phosphorus Retention (PR)	3.79	Moderate	0.43	Lower	6.12	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	5.41	Moderate			7.76	
Organic Nutrient Export (OE)	6.71	Moderate			4.38	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.16	Higher	4.27	Moderate	6.01	3.54
Amphibian & Turtle Habitat (AM)	4.97	Moderate	6.53	Higher	5.73	7.14
Waterbird Feeding Habitat (WBF)	5.06	Moderate	10.00	Higher	3.85	10.00
Waterbird Nesting Habitat (WBN)	5.65	Moderate	10.00	Higher	4.10	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.71	Higher	10.00	Higher	7.58	10.00
Pollinator Habitat (POL)	8.39	Higher	10.00	Higher	6.96	10.00
Native Plant Habitat (PH)	2.85	Lower	8.18	Higher	5.04	8.18
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.13	Moderate		3.63
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.06	Moderate		2.62
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.71	Moderate	4.79	Moderate	6.95	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.65	Higher	2.36	Lower	9.23	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.90	Higher	2.84	Lower	4.94	2.36
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.39	Moderate	7.65	Higher	4.23	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.68	Higher	9.70	Higher	7.05	9.70
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.10	Moderate		3.12

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	32.18058547	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.38586222	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	16.77320282	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	33.61311588	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	74.44558483	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-7-2022-BM

Date:July 8, 2022

Observer:CK, ZS

Latitude & Longitude (decimal degrees):44.876197, -64.292731

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.64	Moderate	7.84	Higher	6.90	3.48
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.50	Moderate	0.00	Lower	3.00	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	0.95	Lower	10.00	0.46
Phosphorus Retention (PR)	10.00	Higher	1.07	Moderate	10.00	0.83
Nitrate Removal & Retention (NR)	10.00	Higher	4.58	Moderate	10.00	4.58
Carbon Sequestration (CS)	6.29	Moderate			8.18	
Organic Nutrient Export (OE)	6.34	Moderate			4.14	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.95	Lower	3.33	Moderate	4.70	3.04
Amphibian & Turtle Habitat (AM)	2.36	Lower	6.43	Higher	4.36	7.06
Waterbird Feeding Habitat (WBF)	6.49	Higher	10.00	Higher	4.94	10.00
Waterbird Nesting Habitat (WBN)	3.73	Moderate	10.00	Higher	2.71	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.15	Moderate	10.00	Higher	6.22	10.00
Pollinator Habitat (POL)	8.87	Higher	10.00	Higher	7.35	10.00
Native Plant Habitat (PH)	1.84	Lower	7.86	Higher	4.64	7.86
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.78	Moderate		3.82
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.53	Higher		3.80
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.64	Moderate	7.84	Higher	6.90	3.48
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.54	Higher	3.39	Moderate	9.77	3.27
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.89	Moderate	2.22	Lower	3.83	2.03
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.51	Moderate	7.64	Higher	3.67	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.41	Higher	9.64	Higher	6.71	9.64
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.65	Moderate		3.81

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	52.0692865	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	32.34493071	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.87161499	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	34.43451653	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	71.48195474	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-8-2022

Date: August 3, 2022

Observer: Katie Courvette, Chris Kennedy

Latitude & Longitude (decimal degrees): 44.8091738 -64.3436577

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.30	Moderate	5.24	Moderate	5.90	2.33
Stream Flow Support (SFS)	1.72	Moderate	8.19	Higher	1.39	5.45
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	1.36	Moderate	5.56	0.67
Phosphorus Retention (PR)	2.02	Lower	1.29	Moderate	5.01	1.00
Nitrate Removal & Retention (NR)	1.80	Lower	4.00	Moderate	4.08	4.00
Carbon Sequestration (CS)	5.57	Moderate			7.83	
Organic Nutrient Export (OE)	8.03	Higher			5.25	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.22	Lower	0.00	Lower	4.81	1.20
Amphibian & Turtle Habitat (AM)	0.16	Lower	0.48	Lower	3.21	2.16
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	4.57	Moderate	2.50	Lower	3.98	2.50
Pollinator Habitat (POL)	6.36	Moderate	0.00	Lower	5.27	0.00
Native Plant Habitat (PH)	1.28	Lower	3.08	Lower	4.41	3.08
Public Use & Recognition (PU)			4.00	Moderate		3.04
Wetland Sensitivity (Sens)			7.90	Higher		4.42
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			10.00	Higher		6.45
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	5.30	Moderate	5.24	Moderate	5.90	2.33
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.50	Moderate	3.11	Lower	6.73	2.94
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.64	Higher	5.46	Moderate	4.06	3.83
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.10	Lower	0.29	Lower	1.93	1.30
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.21	Moderate	2.47	Lower	4.91	2.47
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			8.95	Higher		5.44

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	27.82193765	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	13.98185009	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	30.79196874	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.028314598	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	12.88146826	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-9-2022

Date: August 3 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.841984 -64.327837

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	4.75	Moderate	4.17	Moderate	5.49	1.85
Stream Flow Support (SFS)	1.59	Moderate	7.01	Moderate	1.28	4.67
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	0.91	Lower	6.11	0.44
Phosphorus Retention (PR)	2.51	Lower	0.43	Lower	5.31	0.33
Nitrate Removal & Retention (NR)	2.40	Lower	7.50	Higher	4.51	7.50
Carbon Sequestration (CS)	1.49	Lower			5.90	
Organic Nutrient Export (OE)	9.52	Higher			6.22	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.65	Higher	1.00	Lower	5.80	1.78
Amphibian & Turtle Habitat (AM)	3.44	Lower	0.19	Lower	4.93	1.92
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.62	Moderate	0.00	Lower	5.77	0.00
Pollinator Habitat (POL)	7.14	Moderate	0.00	Lower	5.92	0.00
Native Plant Habitat (PH)	3.83	Moderate	3.89	Lower	5.43	3.89
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.46
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.82	Moderate		2.98
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	4.75	Moderate	4.17	Moderate	5.49	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.93	Moderate	5.22	Moderate	5.78	5.13
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.86	Higher	4.84	Moderate	4.77	3.41
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.07	Lower	0.12	Lower	2.96	1.15
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.50	Moderate	2.60	Lower	5.81	2.60
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.91	Higher		4.22

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	19.80715977	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.54391808	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	33.19153521	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.240766333	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	16.88179202	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-10-2022

Date: August 4, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.888023 -64.322488

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.46	Lower	6.77	Higher	4.53	3.00
Stream Flow Support (SFS)	1.93	Moderate	6.79	Moderate	1.56	4.52
Water Cooling (WC)	4.50	Moderate	1.32	Lower	3.00	0.72
Sediment Retention & Stabilisation (SR)	5.22	Moderate	1.87	Moderate	6.27	0.92
Phosphorus Retention (PR)	3.03	Moderate	1.07	Moderate	5.64	0.83
Nitrate Removal & Retention (NR)	4.80	Higher	5.00	Moderate	6.24	5.00
Carbon Sequestration (CS)	3.00	Lower			6.62	
Organic Nutrient Export (OE)	10.00	Higher			6.84	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.45	Higher	3.45	Moderate	6.12	3.10
Amphibian & Turtle Habitat (AM)	4.88	Moderate	2.80	Moderate	5.68	4.07
Waterbird Feeding Habitat (WBF)	4.05	Moderate	2.50	Lower	3.08	2.50
Waterbird Nesting Habitat (WBN)	4.42	Moderate	2.50	Moderate	3.21	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.62	Higher	2.50	Lower	6.63	2.50
Pollinator Habitat (POL)	8.64	Higher	0.00	Lower	7.16	0.00
Native Plant Habitat (PH)	5.44	Moderate	4.60	Lower	6.07	4.60
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.99	Higher		5.02
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			6.37	Higher		3.24
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.46	Lower	6.77	Higher	4.53	3.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.62	Moderate	3.82	Moderate	6.40	3.63
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.86	Higher	5.32	Moderate	5.61	3.65
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.77	Moderate	2.18	Moderate	4.04	2.94
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.94	Higher	3.48	Lower	6.89	3.48
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.18	Higher		4.13

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	23.39763497	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	17.64774456	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	41.84623159	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	8.235890996	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.63509307	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-11-2022

Date: August, 4, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.898476 -64.310162

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.45	Lower	6.88	Higher	3.77	3.05
Stream Flow Support (SFS)	1.34	Lower	6.69	Moderate	1.08	4.45
Water Cooling (WC)	3.95	Moderate	1.80	Lower	2.63	0.98
Sediment Retention & Stabilisation (SR)	1.98	Lower	1.40	Moderate	3.74	0.69
Phosphorus Retention (PR)	1.05	Lower	1.07	Moderate	4.40	0.83
Nitrate Removal & Retention (NR)	2.68	Lower	4.58	Moderate	4.71	4.58
Carbon Sequestration (CS)	2.46	Lower			6.36	
Organic Nutrient Export (OE)	6.03	Moderate			3.94	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.01	Moderate	3.45	Moderate	5.13	3.10
Amphibian & Turtle Habitat (AM)	4.44	Moderate	4.10	Moderate	5.45	5.14
Waterbird Feeding Habitat (WBF)	5.42	Moderate	5.00	Moderate	4.13	5.00
Waterbird Nesting Habitat (WBN)	3.83	Moderate	5.00	Higher	2.77	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.21	Moderate	5.00	Moderate	6.28	5.00
Pollinator Habitat (POL)	8.39	Higher	0.00	Lower	6.95	0.00
Native Plant Habitat (PH)	2.80	Lower	4.41	Lower	5.02	4.41
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.32	Moderate		3.69
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			4.63	Moderate		2.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.45	Lower	6.88	Higher	3.77	3.05
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.36	Lower	3.47	Moderate	5.58	3.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.93	Moderate	5.34	Moderate	4.16	3.65
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.08	Moderate	3.91	Moderate	3.96	4.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.26	Higher	4.07	Lower	6.52	4.07
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			4.97	Moderate		3.05

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	16.82709352	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	8.195661979	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	26.3410996	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	15.95015036	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.54308569	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-12-2022

Date: August, 4, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.898017 -64.30707

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.71	Higher	7.11	Higher	8.45	3.15
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	6.44	Moderate	2.36	Moderate	7.22	1.16
Phosphorus Retention (PR)	0.07	Lower	2.23	Moderate	3.79	1.74
Nitrate Removal & Retention (NR)	10.00	Higher	5.17	Moderate	10.00	5.17
Carbon Sequestration (CS)	7.76	Higher			8.87	
Organic Nutrient Export (OE)	5.25	Moderate			3.43	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.66	Higher	0.55	Lower	5.80	1.54
Amphibian & Turtle Habitat (AM)	0.69	Lower	2.21	Lower	3.49	3.58
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.60	Moderate	5.00	Moderate	5.74	5.00
Pollinator Habitat (POL)	8.67	Higher	0.00	Lower	7.19	0.00
Native Plant Habitat (PH)	3.72	Moderate	4.31	Lower	5.38	4.31
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.79
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			6.37	Higher		3.24
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	8.71	Higher	7.11	Higher	8.45	3.15
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.03	Higher	4.21	Moderate	8.74	3.93
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.19	Moderate	0.36	Lower	4.05	1.03
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.42	Lower	1.32	Lower	2.09	2.15
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.50	Higher	4.05	Lower	6.64	4.05
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			8.18	Higher		4.52

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	61.92592404	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	33.82617687	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.527715562	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.551628442	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	30.38227836	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-13-2022

Date: August 4, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.899302 -64.302165

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.03	Moderate	7.33	Higher	5.70	3.25
Stream Flow Support (SFS)	1.38	Lower	7.24	Moderate	1.11	4.82
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	1.13	Moderate	8.33	0.56
Phosphorus Retention (PR)	1.87	Lower	1.07	Moderate	4.91	0.83
Nitrate Removal & Retention (NR)	2.45	Lower	4.58	Moderate	4.54	4.58
Carbon Sequestration (CS)	7.29	Higher			8.65	
Organic Nutrient Export (OE)	5.50	Moderate			3.59	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.45	Moderate	0.47	Lower	4.90	1.50
Amphibian & Turtle Habitat (AM)	0.64	Lower	2.79	Moderate	3.46	4.06
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.35	Moderate	6.67	Moderate	5.52	6.67
Pollinator Habitat (POL)	8.58	Higher	6.67	Moderate	7.11	6.67
Native Plant Habitat (PH)	2.34	Lower	6.43	Moderate	4.83	6.43
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.62	Moderate		3.77
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.63	Moderate		2.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	5.03	Moderate	7.33	Higher	5.70	3.25
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	6.37	Higher	3.42	Moderate	7.63	3.29
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.04	Moderate	4.90	Moderate	3.65	3.46
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.38	Lower	1.68	Lower	2.07	2.44
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.17	Higher	6.63	Moderate	6.47	6.63
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.12	Moderate		3.09

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	36.86800211	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.79027063	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	19.80441496	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.639700267	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.50801695	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-14-2022

Date: August 4, 2022

Observer:

Latitude & Longitude (decimal degrees): 44.902064 -64.293448

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.96	Moderate	4.87	Moderate	7.14	2.16
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	8.40	Higher	0.00	Lower	5.60	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.30	Moderate	10.00	0.64
Phosphorus Retention (PR)	10.00	Higher	0.43	Lower	10.00	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	2.85	Lower			6.54	
Organic Nutrient Export (OE)	7.60	Higher			4.97	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.54	Higher	3.89	Moderate	5.75	3.34
Amphibian & Turtle Habitat (AM)	4.85	Moderate	3.41	Moderate	5.66	4.57
Waterbird Feeding Habitat (WBF)	4.26	Moderate	2.50	Lower	3.24	2.50
Waterbird Nesting Habitat (WBN)	4.35	Moderate	2.50	Moderate	3.15	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.16	Higher	10.00	Higher	7.97	10.00
Pollinator Habitat (POL)	8.91	Higher	0.00	Lower	7.39	0.00
Native Plant Habitat (PH)	5.32	Moderate	5.12	Lower	6.02	5.12
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			10.00	Higher		5.33
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.54	Moderate		2.37
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.96	Moderate	4.87	Moderate	7.14	2.16
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.11	Higher	1.96	Lower	9.57	1.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.89	Higher	2.59	Lower	4.92	2.23
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.77	Moderate	2.55	Moderate	4.04	3.24
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.48	Higher	7.52	Moderate	7.55	7.52
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.27	Higher		3.85

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	33.87967294	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	17.80700406	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	17.8712832	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	9.597700432	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.76930912	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-15-2022

Date: August 4, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.903576 -64.290672

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.15	Moderate	5.12	Moderate	6.53	2.27
Stream Flow Support (SFS)	2.07	Moderate	7.81	Higher	1.67	5.20
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	6.32	Moderate	1.13	Moderate	7.13	0.56
Phosphorus Retention (PR)	3.35	Moderate	0.43	Lower	5.84	0.33
Nitrate Removal & Retention (NR)	4.24	Moderate	3.33	Lower	5.83	3.33
Carbon Sequestration (CS)	7.74	Higher			8.86	
Organic Nutrient Export (OE)	6.71	Moderate			4.38	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.18	Lower	0.95	Lower	3.97	1.75
Amphibian & Turtle Habitat (AM)	3.12	Lower	1.21	Lower	4.76	2.76
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.62	Moderate	10.00	Higher	5.77	10.00
Pollinator Habitat (POL)	7.60	Moderate	0.00	Lower	6.30	0.00
Native Plant Habitat (PH)	2.60	Lower	4.02	Lower	4.94	4.02
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.85	Higher		4.98
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.41	Moderate		2.78
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.15	Moderate	5.12	Moderate	6.53	2.27
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	6.58	Higher	2.48	Lower	7.89	2.37
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.60	Moderate	5.37	Moderate	3.45	3.76
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.87	Lower	0.72	Lower	2.86	1.65
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.60	Moderate	7.34	Moderate	5.98	7.34
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.63	Higher		3.88

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	31.4500705	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.3244142	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	24.67851241	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.355805257	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	48.44431545	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-16-2022

Date: August 5, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees): 44.896996 -64.297353

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.98	Lower	4.68	Moderate	4.17	2.08
Stream Flow Support (SFS)	2.10	Moderate	8.68	Higher	1.69	5.78
Water Cooling (WC)	8.90	Higher	2.20	Moderate	5.93	1.19
Sediment Retention & Stabilisation (SR)	3.22	Lower	8.96	Higher	4.71	4.39
Phosphorus Retention (PR)	1.50	Lower	7.71	Higher	4.69	6.00
Nitrate Removal & Retention (NR)	3.10	Moderate	10.00	Higher	5.01	10.00
Carbon Sequestration (CS)	4.54	Moderate			7.35	
Organic Nutrient Export (OE)	10.00	Higher			6.56	
Anadromous Fish Habitat (FA)	4.34	Higher	0.93	Lower	2.84	0.59
Resident Fish Habitat (FR)	2.17	Moderate	0.95	Lower	1.18	0.59
Aquatic Invertebrate Habitat (INV)	5.49	Higher	4.83	Moderate	5.73	3.84
Amphibian & Turtle Habitat (AM)	4.71	Moderate	4.33	Moderate	5.59	5.33
Waterbird Feeding Habitat (WBF)	3.89	Moderate	5.00	Moderate	2.96	5.00
Waterbird Nesting Habitat (WBN)	3.40	Moderate	5.00	Higher	2.47	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.21	Higher	5.00	Moderate	8.02	5.00
Pollinator Habitat (POL)	9.22	Higher	0.00	Lower	7.64	0.00
Native Plant Habitat (PH)	5.02	Moderate	5.22	Lower	5.90	5.22
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			5.44	Moderate		3.72
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.91	Moderate		2.55
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.98	Lower	4.68	Moderate	4.17	2.08
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.82	Moderate	9.45	Higher	6.39	8.40
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.31	Higher	6.96	Moderate	5.77	4.69
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.21	Moderate	4.12	Moderate	4.30	4.31
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.52	Higher	4.31	Lower	7.60	4.31
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			5.18	Moderate		3.13

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.94262751	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	36.05153835	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	57.84378434	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	17.34423571	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	36.73111445	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-17-2022

Date: August 5, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.904195 -64.288563

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.36	Higher	5.20	Moderate	8.93	2.31
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.15	Higher	1.13	Moderate	7.78	0.56
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.28	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	8.07	Higher			9.02	
Organic Nutrient Export (OE)	9.32	Higher			6.09	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.70	Lower	0.59	Lower	4.59	1.56
Amphibian & Turtle Habitat (AM)	1.01	Lower	1.18	Lower	3.65	2.73
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.55	Moderate	10.00	Higher	5.70	10.00
Pollinator Habitat (POL)	5.99	Moderate	0.00	Lower	4.96	0.00
Native Plant Habitat (PH)	2.38	Lower	3.56	Lower	4.85	3.56
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.38	Higher		4.56
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.45	Moderate		2.33
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.36	Higher	5.20	Moderate	8.93	2.31
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.46	Higher	1.01	Lower	9.01	0.89
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.16	Higher	0.39	Lower	4.38	1.04
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.61	Lower	0.71	Lower	2.19	1.64
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.76	Moderate	7.26	Moderate	5.44	7.26
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.42	Moderate		3.44

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.66532832	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	8.567754093	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.406291639	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.428766957	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	41.84021725	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-18-2022

Date: August 5, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.906321 -64.284608

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.78	Moderate	4.91	Moderate	4.76	2.18
Stream Flow Support (SFS)	1.75	Moderate	7.53	Moderate	1.41	5.01
Water Cooling (WC)	5.15	Moderate	0.76	Lower	3.43	0.41
Sediment Retention & Stabilisation (SR)	2.45	Lower	0.83	Lower	4.11	0.41
Phosphorus Retention (PR)	3.75	Moderate	0.43	Lower	6.09	0.33
Nitrate Removal & Retention (NR)	2.93	Moderate	3.33	Lower	4.89	3.33
Carbon Sequestration (CS)	5.03	Moderate			7.58	
Organic Nutrient Export (OE)	8.66	Higher			5.66	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.13	Lower	2.91	Moderate	3.95	2.81
Amphibian & Turtle Habitat (AM)	1.83	Lower	3.97	Moderate	4.09	5.04
Waterbird Feeding Habitat (WBF)	4.87	Moderate	5.00	Moderate	3.71	5.00
Waterbird Nesting Habitat (WBN)	3.70	Moderate	5.00	Higher	2.68	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.35	Moderate	5.00	Moderate	6.40	5.00
Pollinator Habitat (POL)	8.89	Higher	0.00	Lower	7.37	0.00
Native Plant Habitat (PH)	2.92	Lower	4.59	Lower	5.07	4.59
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.86	Higher		4.41
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			6.90	Higher		3.50
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.78	Moderate	4.91	Moderate	4.76	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.29	Moderate	2.43	Lower	6.62	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.42	Higher	5.63	Moderate	4.64	3.88
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.48	Moderate	3.90	Moderate	3.09	4.02
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.64	Higher	4.10	Lower	6.82	4.10
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			7.38	Higher		3.96

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	18.53194684	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	10.42814215	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	36.14690296	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	13.54430263	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	31.30598848	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-19-2022

Date: August 5, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.910427 -64.284472

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.24	Moderate	4.91	Moderate	6.60	2.18
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.17	Moderate	0.00	Lower	2.78	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.13	Moderate	10.00	0.56
Phosphorus Retention (PR)	10.00	Higher	0.43	Lower	10.00	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	5.17	Moderate			7.64	
Organic Nutrient Export (OE)	5.56	Moderate			3.64	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.42	Lower	5.17	Moderate	4.48	4.03
Amphibian & Turtle Habitat (AM)	3.84	Moderate	5.61	Higher	5.14	6.38
Waterbird Feeding Habitat (WBF)	8.08	Higher	5.00	Moderate	6.15	5.00
Waterbird Nesting Habitat (WBN)	6.71	Higher	5.00	Higher	4.87	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.20	Higher	5.00	Moderate	8.01	5.00
Pollinator Habitat (POL)	7.74	Moderate	0.00	Lower	6.41	0.00
Native Plant Habitat (PH)	2.58	Lower	4.81	Lower	4.93	4.81
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.15	Moderate		4.21
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			5.32	Moderate		2.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.24	Moderate	4.91	Moderate	6.60	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.40	Higher	1.01	Lower	9.71	0.89
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.30	Moderate	3.44	Lower	3.60	2.68
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.90	Moderate	4.37	Moderate	4.69	4.83
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.85	Higher	4.13	Lower	7.23	4.13
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			6.23	Moderate		3.47

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	30.61998945	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.516281809	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	14.81341066	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	25.77204042	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.46359093	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-20-2022

Date: August 5, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.907086 -64.283488

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.34	Lower	4.80	Moderate	4.43	2.13
Stream Flow Support (SFS)	1.26	Lower	7.69	Moderate	1.02	5.12
Water Cooling (WC)	4.50	Moderate	0.75	Lower	3.00	0.41
Sediment Retention & Stabilisation (SR)	4.09	Moderate	1.21	Moderate	5.39	0.59
Phosphorus Retention (PR)	3.10	Moderate	0.43	Lower	5.68	0.33
Nitrate Removal & Retention (NR)	3.36	Moderate	3.33	Lower	5.20	3.33
Carbon Sequestration (CS)	4.80	Moderate			7.47	
Organic Nutrient Export (OE)	7.08	Moderate			4.63	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.05	Moderate	3.51	Moderate	5.15	3.13
Amphibian & Turtle Habitat (AM)	2.95	Lower	3.28	Moderate	4.67	4.46
Waterbird Feeding Habitat (WBF)	5.67	Moderate	2.50	Lower	4.32	2.50
Waterbird Nesting Habitat (WBN)	4.46	Moderate	2.50	Moderate	3.23	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.55	Higher	2.50	Lower	6.57	2.50
Pollinator Habitat (POL)	8.44	Higher	0.00	Lower	7.00	0.00
Native Plant Habitat (PH)	3.37	Lower	4.52	Lower	5.25	4.52
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.32	Moderate		3.97
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.02	Moderate		2.60
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.34	Lower	4.80	Moderate	4.43	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.32	Moderate	2.50	Lower	6.70	2.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.65	Higher	5.84	Moderate	4.30	4.00
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.14	Moderate	2.47	Moderate	3.56	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.45	Higher	3.43	Lower	6.64	3.43
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.67	Moderate		3.28

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	16.02189873	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	10.7818458	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	32.99206476	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	10.22489499	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	25.57088309	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-21-2022

Date: August 5, 2022

Observer: ZS

Latitude & Longitude (decimal degrees):44.908044 -64.284972

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	1.02	Lower	8.89	0.50
Phosphorus Retention (PR)	3.29	Moderate	0.43	Lower	5.80	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	7.05	Higher			8.53	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.88	Higher	0.89	Lower	6.30	1.72
Amphibian & Turtle Habitat (AM)	2.90	Lower	2.18	Lower	4.64	3.56
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.53	Moderate	5.00	Moderate	5.69	5.00
Pollinator Habitat (POL)	7.84	Moderate	0.00	Lower	6.50	0.00
Native Plant Habitat (PH)	3.08	Lower	4.06	Lower	5.13	4.06
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.39	Higher		4.85
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			6.37	Higher		3.24
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.61	Higher	0.98	Lower	9.15	0.88
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.27	Moderate	0.59	Lower	4.51	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.74	Lower	1.31	Lower	2.79	2.14
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.83	Higher	4.01	Lower	6.14	4.01
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.88	Higher		4.04

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.74172435	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	8.462220339	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.114697611	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.277843644	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.39649902	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-22-2022

Date: September 1, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.906512 -64.28183

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.03	Lower	7.61	Higher	1.97	3.38
Stream Flow Support (SFS)	6.97	Higher	9.31	Higher	5.61	6.20
Water Cooling (WC)	4.29	Moderate	5.92	Moderate	2.86	3.21
Sediment Retention & Stabilisation (SR)	0.00	Lower	8.39	Higher	2.19	4.11
Phosphorus Retention (PR)	1.14	Lower	7.93	Higher	4.46	6.17
Nitrate Removal & Retention (NR)	2.54	Lower	10.00	Higher	4.61	10.00
Carbon Sequestration (CS)	5.13	Moderate			7.62	
Organic Nutrient Export (OE)	8.78	Higher			5.74	
Anadromous Fish Habitat (FA)	6.34	Higher	1.46	Moderate	4.16	0.93
Resident Fish Habitat (FR)	6.04	Higher	1.49	Moderate	3.28	0.93
Aquatic Invertebrate Habitat (INV)	1.82	Lower	6.96	Higher	4.24	4.99
Amphibian & Turtle Habitat (AM)	4.79	Moderate	3.94	Moderate	5.63	5.01
Waterbird Feeding Habitat (WBF)	6.10	Moderate	2.50	Lower	4.64	2.50
Waterbird Nesting Habitat (WBN)	6.02	Moderate	2.50	Moderate	4.36	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.07	Higher	10.00	Higher	7.89	10.00
Pollinator Habitat (POL)	8.37	Higher	0.00	Lower	6.94	0.00
Native Plant Habitat (PH)	3.80	Moderate	4.94	Lower	5.42	4.94
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.25	Moderate		3.67
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.32	Higher		3.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	0.03	Lower	7.61	Higher	1.97	3.38
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.67	Moderate	9.39	Higher	6.17	8.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.12	Higher	8.35	Higher	5.17	5.50
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.10	Moderate	3.16	Moderate	5.02	3.69
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.07	Higher	7.49	Moderate	7.32	7.49
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.79	Moderate		3.44

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	0.195087395	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	34.42361309	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	59.47495607	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	19.28203265	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	60.47220522	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-23-2022

Date: September 1, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.907557 -64.28174

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.85	Lower	7.61	Higher	2.58	3.38
Stream Flow Support (SFS)	4.90	Higher	9.68	Higher	3.94	6.44
Water Cooling (WC)	8.90	Higher	8.10	Higher	5.93	4.39
Sediment Retention & Stabilisation (SR)	2.79	Lower	8.96	Higher	4.38	4.39
Phosphorus Retention (PR)	1.45	Lower	7.93	Higher	4.66	6.17
Nitrate Removal & Retention (NR)	2.52	Lower	10.00	Higher	4.60	10.00
Carbon Sequestration (CS)	1.53	Lower			5.92	
Organic Nutrient Export (OE)	9.86	Higher			6.45	
Anadromous Fish Habitat (FA)	6.91	Higher	1.38	Moderate	4.53	0.88
Resident Fish Habitat (FR)	4.46	Moderate	1.41	Moderate	2.42	0.88
Aquatic Invertebrate Habitat (INV)	6.60	Higher	6.64	Higher	6.18	4.82
Amphibian & Turtle Habitat (AM)	5.16	Moderate	3.94	Moderate	5.83	5.01
Waterbird Feeding Habitat (WBF)	5.77	Moderate	2.50	Lower	4.39	2.50
Waterbird Nesting Habitat (WBN)	5.01	Moderate	2.50	Moderate	3.63	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.34	Higher	2.50	Lower	8.13	2.50
Pollinator Habitat (POL)	8.97	Higher	0.00	Lower	7.43	0.00
Native Plant Habitat (PH)	6.57	Higher	5.19	Lower	6.52	5.19
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.16
Wetland Ecological Condition (EC)			8.84	Higher		9.44
Wetland Stressors (STR) (higher score means more stress)			4.97	Moderate		2.58
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	0.85	Lower	7.61	Higher	2.58	3.38
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.43	Moderate	9.48	Higher	5.40	8.43
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.71	Higher	8.91	Higher	6.04	5.83
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.18	Moderate	3.14	Moderate	4.99	3.68
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.82	Higher	3.88	Lower	7.75	3.88
WETLAND CONDITION (EC)			8.84	Higher		9.44
WETLAND RISK (average of Sensitivity & Stressors)			7.49	Higher		3.87

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	6.439453587	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.07569003	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	77.62341071	Moderate
HABITAT SUPERGROUP - AQUATIC HABITAT	19.43488518	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.16661259	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-24-2022-BM

Date: September 1, 2022

Observer:Chris Kennedy, Tyler Sims

Latitude & Longitude (decimal degrees):44.90543, -64.279141

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.93	Higher	5.02	Moderate	9.36	2.23
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.45	Lower	8.89	0.22
Phosphorus Retention (PR)	3.29	Moderate	0.43	Lower	5.80	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	9.82	Higher			9.85	
Organic Nutrient Export (OE)	7.17	Moderate			4.68	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.54	Higher	0.64	Lower	6.16	1.59
Amphibian & Turtle Habitat (AM)	1.00	Lower	4.29	Moderate	3.65	5.30
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.77	Moderate	10.00	Higher	5.89	10.00
Pollinator Habitat (POL)	9.02	Higher	10.00	Higher	7.48	10.00
Native Plant Habitat (PH)	4.03	Moderate	7.79	Higher	5.51	7.79
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.65	Higher		4.35
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.93	Higher	5.02	Moderate	9.36	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.96	Higher	2.37	Lower	9.32	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.43	Moderate	0.43	Lower	4.54	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.60	Lower	2.58	Moderate	2.19	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.82	Higher	9.63	Higher	6.89	9.63
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.45	Higher		4.01

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	49.86222376	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.22958312	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.324441513	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.540541069	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	75.27809915	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-25-2022-BM

Date: September 1, 2022

Observer: Chris Kennedy, Tyler Sims

Latitude & Longitude (decimal degrees): 44.906266

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.68	Higher	5.02	Moderate	9.17	2.23
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.45	Lower	8.89	0.22
Phosphorus Retention (PR)	2.76	Lower	0.43	Lower	5.47	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	8.01	Higher			8.99	
Organic Nutrient Export (OE)	7.49	Higher			4.89	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.24	Higher	0.66	Lower	6.04	1.60
Amphibian & Turtle Habitat (AM)	0.98	Lower	4.32	Moderate	3.64	5.32
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.85	Moderate	10.00	Higher	5.96	10.00
Pollinator Habitat (POL)	7.46	Moderate	10.00	Higher	6.19	10.00
Native Plant Habitat (PH)	3.74	Moderate	7.38	Moderate	5.40	7.38
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.83	Higher		4.40
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.68	Higher	5.02	Moderate	9.17	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.67	Higher	0.89	Lower	9.17	0.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.46	Moderate	0.44	Lower	4.39	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.59	Lower	2.59	Moderate	2.18	3.19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.74	Moderate	9.56	Higher	6.02	9.56
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.53	Higher		4.03

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.600797	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.695748176	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.405395126	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.528386091	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	64.46938723	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-26-2022-BM

Date:September 2, 2022

Observer: Chris Kennedy, Tyler Sims

Latitude & Longitude (decimal degrees):44.905314, -64.277584

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.93	Higher	5.02	Moderate	9.36	2.23
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.45	Lower	8.89	0.22
Phosphorus Retention (PR)	3.29	Moderate	0.43	Lower	5.80	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	7.31	Higher			8.66	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.61	Moderate	0.66	Lower	5.37	1.60
Amphibian & Turtle Habitat (AM)	0.98	Lower	4.32	Moderate	3.64	5.32
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.85	Moderate	10.00	Higher	5.96	10.00
Pollinator Habitat (POL)	7.07	Moderate	10.00	Higher	5.86	10.00
Native Plant Habitat (PH)	3.65	Moderate	7.27	Moderate	5.36	7.27
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.95	Higher		4.44
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.93	Higher	5.02	Moderate	9.36	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.65	Higher	0.89	Lower	9.17	0.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.86	Moderate	0.44	Lower	3.92	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.59	Lower	2.59	Moderate	2.18	3.19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.46	Moderate	9.55	Higher	5.84	9.55
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			7.59	Higher		4.05

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	49.86222376	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.676841068	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.139827144	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.528386091	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.70593592	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-27-2022-BM

Date:September 2, 2022

Observer:Chris Kennedy, Tyler Sims

Latitude & Longitude (decimal degrees):44.904711, -64.277129

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.68	Higher	5.02	Moderate	9.17	2.23
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.45	Lower	8.89	0.22
Phosphorus Retention (PR)	2.76	Lower	0.43	Lower	5.47	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.31	Higher			8.66	
Organic Nutrient Export (OE)	7.49	Higher			4.89	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.05	Higher	0.65	Lower	5.96	1.60
Amphibian & Turtle Habitat (AM)	0.93	Lower	4.32	Moderate	3.61	5.32
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.85	Moderate	10.00	Higher	5.96	10.00
Pollinator Habitat (POL)	7.58	Moderate	10.00	Higher	6.28	10.00
Native Plant Habitat (PH)	4.32	Moderate	7.41	Moderate	5.63	7.41
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.11	Higher		4.77
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.68	Higher	5.02	Moderate	9.17	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.58	Higher	2.37	Lower	9.13	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.43	Moderate	0.43	Lower	4.34	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.56	Lower	2.59	Moderate	2.17	3.19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.91	Higher	9.57	Higher	6.12	9.57
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			8.18	Higher		4.21

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.600797	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.32965987	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.363482647	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.445922402	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	66.13983896	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-28-2022-BM

Date:September 2, 2022

Observer: CK

Latitude & Longitude (decimal degrees): 44.901591, -64.277279

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.93	Moderate	4.91	Moderate	7.12	2.18
Stream Flow Support (SFS)	0.87	Lower	0.00	Lower	0.70	0.00
Water Cooling (WC)	5.90	Higher	0.00	Lower	3.93	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.49	Moderate	10.00	0.73
Phosphorus Retention (PR)	3.87	Moderate	0.43	Lower	6.17	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	4.75	Moderate			7.44	
Organic Nutrient Export (OE)	8.44	Higher			5.52	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.85	Higher	4.37	Moderate	5.88	3.60
Amphibian & Turtle Habitat (AM)	2.80	Lower	7.42	Higher	4.59	7.87
Waterbird Feeding Habitat (WBF)	7.48	Higher	10.00	Higher	5.69	10.00
Waterbird Nesting Habitat (WBN)	4.65	Moderate	10.00	Higher	3.37	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.11	Higher	10.00	Higher	7.93	10.00
Pollinator Habitat (POL)	9.54	Higher	10.00	Higher	7.91	10.00
Native Plant Habitat (PH)	3.96	Moderate	8.61	Higher	5.48	8.61
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.22	Higher		4.23
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			6.72	Higher		3.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.93	Moderate	4.91	Moderate	7.12	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.58	Higher	2.54	Lower	9.20	2.40
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.85	Higher	2.91	Lower	4.94	2.40
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.23	Moderate	7.74	Higher	4.21	7.79
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.54	Higher	9.77	Higher	7.52	9.77
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			6.97	Higher		3.82

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	34.02563923	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.80900616	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	19.96537735	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	40.5074117	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	83.4216756	Moderate

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-29-2022-BM

Date:September 2, 2022

Observer: CK

Latitude & Longitude (decimal degrees):44.901881, -64.275996

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	1.25	Moderate	8.33	0.61
Phosphorus Retention (PR)	3.29	Moderate	0.43	Lower	5.80	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.49	Higher			8.74	
Organic Nutrient Export (OE)	7.38	Moderate			4.82	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.31	Lower	0.64	Lower	4.84	1.59
Amphibian & Turtle Habitat (AM)	1.14	Lower	4.26	Moderate	3.72	5.27
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.68	Moderate	10.00	Higher	5.81	10.00
Pollinator Habitat (POL)	7.40	Moderate	10.00	Higher	6.13	10.00
Native Plant Habitat (PH)	4.03	Moderate	7.31	Moderate	5.51	7.31
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.73	Moderate		4.09
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			6.72	Higher		3.41
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.58	Higher	2.50	Lower	9.11	2.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.15	Moderate	0.43	Lower	3.73	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.68	Lower	2.56	Moderate	2.23	3.16
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.72	Moderate	9.55	Higher	5.97	9.55
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			6.72	Higher		3.75

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.74172435	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.46407833	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.197492424	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.742691743	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	64.15183951	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-30-2022

Date: September 20, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees): 44.906274 -64.300763

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.52	Higher	7.58	Higher	8.30	3.36
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.73	Moderate	1.59	Moderate	6.67	0.78
Phosphorus Retention (PR)	2.85	Lower	1.07	Moderate	5.53	0.83
Nitrate Removal & Retention (NR)	10.00	Higher	4.58	Moderate	10.00	4.58
Carbon Sequestration (CS)	7.42	Higher			8.71	
Organic Nutrient Export (OE)	9.32	Higher			6.09	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.47	Moderate	0.94	Lower	5.31	1.75
Amphibian & Turtle Habitat (AM)	3.24	Lower	2.18	Lower	4.82	3.56
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.51	Moderate	5.00	Moderate	5.67	5.00
Pollinator Habitat (POL)	8.10	Higher	0.00	Lower	6.71	0.00
Native Plant Habitat (PH)	2.81	Lower	4.13	Lower	5.02	4.13
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.10	Moderate		4.19
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.37	Moderate		2.28
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	8.52	Higher	7.58	Higher	8.30	3.36
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.25	Higher	3.50	Moderate	8.86	3.32
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.38	Higher	0.62	Lower	4.47	1.17
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.95	Lower	1.31	Lower	2.89	2.13
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.95	Higher	4.02	Lower	6.26	4.02
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.73	Moderate		3.24

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	64.59408651	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.86043989	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.987186391	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.542657495	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.96466173	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-31-2022-BM

Date:September 20, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.89586, -64.280812

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.16	Lower	4.85	Moderate	2.81	2.15
Stream Flow Support (SFS)	3.10	Moderate	9.32	Higher	2.50	6.20
Water Cooling (WC)	6.75	Higher	2.46	Moderate	4.50	1.33
Sediment Retention & Stabilisation (SR)	1.95	Lower	7.26	Higher	3.72	3.56
Phosphorus Retention (PR)	2.84	Lower	6.86	Higher	5.52	5.33
Nitrate Removal & Retention (NR)	2.26	Lower	10.00	Higher	4.41	10.00
Carbon Sequestration (CS)	4.74	Moderate			7.44	
Organic Nutrient Export (OE)	9.70	Higher			6.34	
Anadromous Fish Habitat (FA)	5.16	Higher	1.68	Moderate	3.38	1.07
Resident Fish Habitat (FR)	5.57	Higher	1.71	Moderate	3.03	1.07
Aquatic Invertebrate Habitat (INV)	3.72	Moderate	6.71	Higher	5.01	4.86
Amphibian & Turtle Habitat (AM)	2.87	Lower	6.81	Higher	4.63	7.37
Waterbird Feeding Habitat (WBF)	7.01	Higher	10.00	Higher	5.34	10.00
Waterbird Nesting Habitat (WBN)	8.29	Higher	10.00	Higher	6.01	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.78	Higher	10.00	Higher	6.77	10.00
Pollinator Habitat (POL)	8.85	Higher	10.00	Higher	7.33	10.00
Native Plant Habitat (PH)	7.44	Higher	8.04	Higher	6.87	8.04
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.77	Moderate		4.10
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.19	Moderate		2.20
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.16	Lower	4.85	Moderate	2.81	2.15
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.84	Moderate	9.02	Higher	6.36	8.15
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.76	Higher	7.74	Higher	5.46	5.17
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	7.03	Higher	8.02	Higher	5.24	7.95
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.43	Higher	9.67	Higher	7.16	9.67
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.48	Moderate		3.15

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	5.611293088	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	34.65580545	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	60.07270455	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	56.41828697	Moderate
HABITAT SUPERGROUP - TRANSITION HABITAT	81.58646581	Moderate

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-32-2022-BM

Date:September 20, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.901835, -64.274187

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.45	Lower	8.89	0.22
Phosphorus Retention (PR)	3.29	Moderate	0.43	Lower	5.80	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	8.06	Higher			9.01	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.88	Higher	0.65	Lower	6.30	1.59
Amphibian & Turtle Habitat (AM)	1.01	Lower	4.29	Moderate	3.66	5.30
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.77	Moderate	10.00	Higher	5.89	10.00
Pollinator Habitat (POL)	9.02	Higher	10.00	Higher	7.48	10.00
Native Plant Habitat (PH)	4.03	Moderate	7.79	Higher	5.51	7.79
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.66	Higher		4.64
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.93	Higher	4.91	Moderate	9.36	2.18
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.74	Higher	0.89	Lower	9.21	0.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.16	Moderate	0.43	Lower	4.50	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.61	Lower	2.58	Moderate	2.19	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.82	Higher	9.63	Higher	6.89	9.63
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.95	Higher		4.15

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.74172435	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.759772181	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.217534164	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.565125661	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	75.27809915	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-33-2022-BM

Date:September 20, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.901895, -64.271961

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.58	Lower	7.42	Higher	3.12	3.29
Stream Flow Support (SFS)	2.28	Moderate	8.24	Higher	1.83	5.49
Water Cooling (WC)	6.00	Higher	0.81	Lower	4.00	0.44
Sediment Retention & Stabilisation (SR)	2.37	Lower	8.79	Higher	4.05	4.31
Phosphorus Retention (PR)	2.25	Lower	7.93	Higher	5.16	6.17
Nitrate Removal & Retention (NR)	2.32	Lower	10.00	Higher	4.45	10.00
Carbon Sequestration (CS)	1.17	Lower			5.75	
Organic Nutrient Export (OE)	10.00	Higher			6.69	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.60	Moderate	1.58	Moderate	2.50	0.98
Aquatic Invertebrate Habitat (INV)	6.07	Higher	4.59	Moderate	5.97	3.72
Amphibian & Turtle Habitat (AM)	4.51	Moderate	6.52	Higher	5.48	7.13
Waterbird Feeding Habitat (WBF)	6.46	Higher	10.00	Higher	4.92	10.00
Waterbird Nesting Habitat (WBN)	4.04	Moderate	10.00	Higher	2.93	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.45	Moderate	10.00	Higher	6.48	10.00
Pollinator Habitat (POL)	9.15	Higher	10.00	Higher	7.58	10.00
Native Plant Habitat (PH)	6.44	Higher	8.02	Higher	6.47	8.02
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.97	Higher		4.73
Wetland Ecological Condition (EC)			8.84	Higher		9.44
Wetland Stressors (STR) (higher score means more stress)			5.15	Moderate		2.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.58	Lower	7.42	Higher	3.12	3.29
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.20	Lower	9.45	Higher	5.30	8.41
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.04	Higher	6.40	Moderate	5.66	4.35
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.19	Moderate	7.81	Higher	4.33	7.81
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.41	Higher	9.67	Higher	7.21	9.67
WETLAND CONDITION (EC)			8.84	Higher		9.44
WETLAND RISK (average of Sensitivity & Stressors)			7.06	Higher		3.69

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	11.7143152	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.80905718	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	51.44540633	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	40.52744621	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.33135342	Moderate

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-34-2022-BM

Date:September 20, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.90044, -64.271109

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.85	Moderate	9.15	2.15
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.45	Lower	8.33	0.22
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	7.53	Higher			8.76	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.68	Moderate	0.59	Lower	4.99	1.56
Amphibian & Turtle Habitat (AM)	0.95	Lower	4.24	Moderate	3.62	5.25
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.62	Moderate	10.00	Higher	5.76	10.00
Pollinator Habitat (POL)	5.69	Moderate	10.00	Higher	4.71	10.00
Native Plant Habitat (PH)	2.68	Lower	6.82	Moderate	4.97	6.82
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.49	Moderate		4.02
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.85	Moderate	9.15	2.15
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.55	Higher	0.89	Lower	9.09	0.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.74	Moderate	0.40	Lower	3.68	1.04
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.57	Lower	2.54	Moderate	2.17	3.15
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.81	Moderate	9.47	Higher	5.45	9.47
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.86	Higher		3.84

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.8271338	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.5893574	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.876113417	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.449174197	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	54.99656612	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-35-2022-BM

Date:September 21, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.900361, -64.264533

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.40	Higher	4.96	Moderate	8.96	2.20
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.29	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	8.37	Higher			9.16	
Organic Nutrient Export (OE)	7.70	Higher			5.03	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.61	Lower	0.44	Lower	4.15	1.48
Amphibian & Turtle Habitat (AM)	0.65	Lower	4.10	Moderate	3.47	5.14
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.22	Moderate	10.00	Higher	5.42	10.00
Pollinator Habitat (POL)	7.20	Moderate	10.00	Higher	5.96	10.00
Native Plant Habitat (PH)	3.15	Lower	7.13	Moderate	5.16	7.13
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.05	Higher		4.47
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.40	Higher	4.96	Moderate	8.96	2.20
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.59	Higher	1.89	Lower	9.10	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.01	Moderate	0.29	Lower	3.66	0.99
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.39	Lower	2.46	Moderate	2.08	3.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.36	Moderate	9.52	Higher	5.74	9.52
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.73	Higher		4.10

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.66888349	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.22256292	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.468251681	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.963146352	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	60.54713288	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-36-2022-BM

Date:September 21, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.897685, -64.263065

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	5.08	Moderate	9.15	2.25
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	8.06	Higher			9.01	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.85	Lower	0.43	Lower	4.66	1.48
Amphibian & Turtle Habitat (AM)	0.28	Lower	4.17	Moderate	3.27	5.20
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.43	Moderate	10.00	Higher	5.60	10.00
Pollinator Habitat (POL)	7.50	Moderate	10.00	Higher	6.21	10.00
Native Plant Habitat (PH)	3.65	Moderate	7.27	Moderate	5.36	7.27
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.68	Higher		4.65
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	5.08	Moderate	9.15	2.25
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.61	Higher	1.89	Lower	9.12	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.77	Moderate	0.29	Lower	3.49	0.99
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.17	Lower	2.50	Moderate	1.96	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.68	Moderate	9.54	Higher	5.97	9.54
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			8.05	Higher		4.19

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	49.00514003	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.27576119	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.381298601	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.421724318	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.73375428	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-37-2022

Date:September 21, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.895698, -64.262674

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.40	Higher	5.02	Moderate	8.96	2.23
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.29	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	1.11	Lower	10.00	1.11
Carbon Sequestration (CS)	8.94	Higher			9.43	
Organic Nutrient Export (OE)	7.49	Higher			4.89	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.12	Lower	0.22	Lower	4.36	1.36
Amphibian & Turtle Habitat (AM)	0.11	Lower	3.93	Moderate	3.18	5.00
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.73	Moderate	10.00	Higher	4.99	10.00
Pollinator Habitat (POL)	7.35	Moderate	10.00	Higher	6.09	10.00
Native Plant Habitat (PH)	2.13	Lower	7.03	Moderate	4.75	7.03
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.79	Higher		4.96
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.40	Higher	5.02	Moderate	8.96	2.23
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.66	Higher	0.96	Lower	9.13	0.87
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.94	Moderate	0.15	Lower	3.60	0.91
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.07	Lower	2.36	Moderate	1.91	3.00
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.21	Moderate	9.50	Higher	5.68	9.50
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			8.60	Higher		4.35

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	47.19921171	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	8.340976816	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.721506665	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.156257019	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.00278954	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-38-2022

Date: September 21, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.894165 -64.261593

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.79	Moderate	9.15	2.13
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	7.53	Higher			8.76	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.67	Moderate	0.53	Lower	5.40	1.53
Amphibian & Turtle Habitat (AM)	0.86	Lower	4.18	Moderate	3.57	5.21
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.45	Moderate	10.00	Higher	5.62	10.00
Pollinator Habitat (POL)	6.09	Moderate	10.00	Higher	5.05	10.00
Native Plant Habitat (PH)	3.73	Moderate	6.89	Moderate	5.39	6.89
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.29	Higher		4.53
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.79	Moderate	9.15	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.55	Higher	1.89	Lower	9.09	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.00	Moderate	0.36	Lower	3.95	1.02
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.51	Lower	2.51	Moderate	2.14	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.94	Moderate	9.48	Higher	5.48	9.48
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.85	Higher		4.14

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.28263225	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.15118097	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.779959912	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.288782224	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	56.30753374	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-39-2022-BM

Date:September 21, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.894056, -64.260365

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.40	Higher	4.79	Moderate	8.96	2.13
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.29	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	7.53	Higher			8.76	
Organic Nutrient Export (OE)	7.70	Higher			5.03	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.58	Moderate	0.51	Lower	4.95	1.52
Amphibian & Turtle Habitat (AM)	0.71	Lower	4.18	Moderate	3.50	5.21
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.45	Moderate	10.00	Higher	5.62	10.00
Pollinator Habitat (POL)	6.09	Moderate	10.00	Higher	5.05	10.00
Native Plant Habitat (PH)	3.34	Lower	6.89	Moderate	5.24	6.89
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.41	Higher		4.28
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.40	Higher	4.79	Moderate	8.96	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.48	Higher	1.89	Lower	9.05	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.26	Moderate	0.34	Lower	3.76	1.01
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.43	Lower	2.51	Moderate	2.10	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.87	Moderate	9.48	Higher	5.46	9.48
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.41	Higher		4.01

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	45.07789882	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.0253109	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.793048114	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.075942577	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.69781375	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-40-2022-BM

Date:September 22, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.893395, -64.257224

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.40	Higher	4.68	Moderate	8.96	2.08
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.29	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	5.92	Moderate			8.00	
Organic Nutrient Export (OE)	7.91	Higher			5.17	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.87	Moderate	0.86	Lower	5.48	1.71
Amphibian & Turtle Habitat (AM)	2.90	Lower	4.18	Moderate	4.64	5.21
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.45	Moderate	10.00	Higher	5.62	10.00
Pollinator Habitat (POL)	6.24	Moderate	10.00	Higher	5.17	10.00
Native Plant Habitat (PH)	3.34	Lower	6.93	Moderate	5.24	6.93
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.76	Moderate		4.10
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.32	Higher		3.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.40	Higher	4.68	Moderate	8.96	2.08
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.28	Higher	1.89	Lower	8.95	1.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.55	Higher	0.58	Lower	4.07	1.14
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.74	Lower	2.51	Moderate	2.79	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.90	Moderate	9.49	Higher	5.48	9.49
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.54	Moderate		3.66

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	44.01724238	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	15.64534123	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.201959747	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.358329017	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.97714053	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-41-2022-BM

Date:September 22, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.893343, -64.258383

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.82	Higher	4.62	Moderate	9.27	2.05
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	8.58	Higher	0.91	Lower	8.89	0.44
Phosphorus Retention (PR)	1.57	Lower	0.43	Lower	4.73	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	5.92	Moderate			8.00	
Organic Nutrient Export (OE)	6.67	Moderate			4.36	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.54	Higher	0.90	Lower	6.16	1.73
Amphibian & Turtle Habitat (AM)	3.04	Lower	4.20	Moderate	4.72	5.22
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.51	Moderate	10.00	Higher	5.67	10.00
Pollinator Habitat (POL)	8.23	Higher	10.00	Higher	6.82	10.00
Native Plant Habitat (PH)	5.22	Moderate	7.50	Moderate	5.98	7.50
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.61	Higher		4.91
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			5.24	Moderate		2.70
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.82	Higher	4.62	Moderate	9.27	2.05
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.26	Higher	3.56	Moderate	8.95	3.46
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.98	Moderate	0.60	Lower	4.39	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.82	Lower	2.52	Moderate	2.83	3.13
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.44	Higher	9.58	Higher	6.49	9.58
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.42	Higher		3.81

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	45.42393653	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.36852918	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.001129408	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.593292114	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	71.30300153	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-42-2022-BM

Date:September 22, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees)44.903409, -64.264297

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.80	Moderate	9.15	2.13
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.84	Higher			8.91	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.60	Lower	0.70	Lower	4.55	1.62
Amphibian & Turtle Habitat (AM)	0.70	Lower	4.43	Moderate	3.49	5.42
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.18	Moderate	10.00	Higher	6.25	10.00
Pollinator Habitat (POL)	6.99	Moderate	10.00	Higher	5.80	10.00
Native Plant Habitat (PH)	3.03	Lower	7.35	Moderate	5.11	7.35
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.27	Higher		4.24
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.32	Higher		3.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.80	Moderate	9.15	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.59	Higher	2.44	Lower	9.11	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.61	Moderate	0.47	Lower	3.41	1.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.42	Lower	2.66	Moderate	2.10	3.25
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.45	Moderate	9.56	Higher	5.98	9.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.80	Higher		3.73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.38346587	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.99447532	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.161763109	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.123766293	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.68851949	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-43-2022-BM

Date:September 22, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees) 44.904161, -64.263171

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.80	Moderate	9.15	2.13
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.15	Higher	0.45	Lower	7.78	0.22
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.78	Higher			8.41	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.44	Lower	0.11	Lower	4.08	1.30
Amphibian & Turtle Habitat (AM)	0.11	Lower	3.79	Moderate	3.18	4.88
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.33	Moderate	10.00	Higher	4.64	10.00
Pollinator Habitat (POL)	7.40	Moderate	10.00	Higher	6.13	10.00
Native Plant Habitat (PH)	2.27	Lower	6.92	Moderate	4.81	6.92
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.66
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.32	Moderate		2.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.80	Moderate	9.15	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.37	Higher	2.37	Lower	8.98	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.46	Moderate	0.07	Lower	3.31	0.87
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.07	Lower	2.27	Moderate	1.91	2.93
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.20	Moderate	9.49	Higher	5.66	9.49
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.66	Higher		4.20

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.38346587	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.82183699	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.334066448	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.153238697	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	58.80048192	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-44-2022-BM

Date:September 26, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees) 44.906563, -64.259225

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.64	Moderate	9.15	2.06
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.91	Lower	8.33	0.44
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	8.23	Higher			9.10	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.95	Lower	0.68	Lower	4.29	1.61
Amphibian & Turtle Habitat (AM)	0.78	Lower	4.38	Moderate	3.53	5.37
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.03	Moderate	10.00	Higher	6.12	10.00
Pollinator Habitat (POL)	7.29	Moderate	10.00	Higher	6.04	10.00
Native Plant Habitat (PH)	3.79	Moderate	7.39	Moderate	5.41	7.39
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.60	Higher		4.62
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.32	Higher		3.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.64	Moderate	9.15	2.06
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.64	Higher	2.44	Lower	9.13	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.66	Moderate	0.45	Lower	3.42	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.47	Lower	2.63	Moderate	2.12	3.22
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.67	Moderate	9.56	Higher	5.99	9.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.46	Higher		3.92

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	44.77012793	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.11538508	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.10051409	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.230819898	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.74990209	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-45-2022-BM

Date:September 26, 2022

Observer: Zach Simai

Latitude & Longitude (decimal degrees) 44.906693, -64.260384

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.70	Lower	4.74	Moderate	3.96	2.10
Stream Flow Support (SFS)	1.93	Moderate	7.53	Moderate	1.56	5.01
Water Cooling (WC)	8.40	Higher	1.19	Lower	5.60	0.65
Sediment Retention & Stabilisation (SR)	3.95	Moderate	8.20	Higher	5.28	4.02
Phosphorus Retention (PR)	2.77	Lower	6.86	Higher	5.48	5.33
Nitrate Removal & Retention (NR)	3.59	Moderate	10.00	Higher	5.37	10.00
Carbon Sequestration (CS)	3.01	Lower			6.62	
Organic Nutrient Export (OE)	10.00	Higher			6.93	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.29	Lower	4.67	Moderate	4.83	3.76
Amphibian & Turtle Habitat (AM)	4.82	Moderate	4.24	Moderate	5.65	5.25
Waterbird Feeding Habitat (WBF)	6.83	Higher	2.50	Lower	5.20	2.50
Waterbird Nesting Habitat (WBN)	5.04	Moderate	2.50	Moderate	3.66	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.26	Higher	2.50	Lower	8.06	2.50
Pollinator Habitat (POL)	8.62	Higher	0.00	Lower	7.15	0.00
Native Plant Habitat (PH)	5.88	Moderate	5.07	Lower	6.25	5.07
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			7.49	Higher		4.31
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.09	Higher		3.59
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	2.70	Lower	4.74	Moderate	3.96	2.10
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.64	Moderate	9.18	Higher	6.15	8.23
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.95	Higher	6.00	Moderate	5.83	4.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.09	Moderate	3.04	Moderate	4.28	3.65
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.59	Higher	3.80	Lower	7.61	3.80
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.29	Higher		3.95

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	12.78660641	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	33.41932121	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	47.68498465	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	15.47507626	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.60765556	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-46-2022

Date: September 26, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.905823 -64.251064

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.28	Lower	7.21	Higher	2.90	3.19
Stream Flow Support (SFS)	4.55	Moderate	8.51	Higher	3.67	5.66
Water Cooling (WC)	8.40	Higher	5.52	Moderate	5.60	2.99
Sediment Retention & Stabilisation (SR)	2.39	Lower	8.77	Higher	4.06	4.30
Phosphorus Retention (PR)	0.96	Lower	7.50	Higher	4.35	5.83
Nitrate Removal & Retention (NR)	1.85	Lower	10.00	Higher	4.11	10.00
Carbon Sequestration (CS)	2.47	Lower			6.36	
Organic Nutrient Export (OE)	9.62	Higher			6.28	
Anadromous Fish Habitat (FA)	5.91	Higher	1.51	Moderate	3.87	0.96
Resident Fish Habitat (FR)	3.36	Moderate	1.53	Moderate	1.82	0.96
Aquatic Invertebrate Habitat (INV)	3.55	Moderate	5.67	Moderate	4.94	4.30
Amphibian & Turtle Habitat (AM)	4.05	Moderate	6.89	Higher	5.24	7.44
Waterbird Feeding Habitat (WBF)	6.28	Moderate	10.00	Higher	4.78	10.00
Waterbird Nesting Habitat (WBN)	3.48	Moderate	10.00	Higher	2.53	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.65	Higher	10.00	Higher	7.53	10.00
Pollinator Habitat (POL)	8.35	Higher	0.00	Lower	6.92	0.00
Native Plant Habitat (PH)	4.43	Moderate	4.82	Lower	5.67	4.82
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.57	Moderate		3.76
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			4.45	Moderate		2.33
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.28	Lower	7.21	Higher	2.90	3.19
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.19	Lower	9.38	Higher	5.54	8.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.07	Higher	7.54	Moderate	5.70	4.99
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.45	Moderate	7.99	Higher	4.45	7.94
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.90	Higher	7.47	Moderate	7.12	7.47
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			5.01	Moderate		3.04

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	9.257084471	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.56143094	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	60.8372353	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	43.56235525	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	58.97751434	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-47-2022

Date: September 26, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.906902 -64.2472

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.40	Higher	4.60	Moderate	8.96	2.04
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.03	Higher	1.25	Moderate	7.69	0.61
Phosphorus Retention (PR)	2.46	Lower	0.43	Lower	5.29	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	5.17	Moderate			7.65	
Organic Nutrient Export (OE)	7.91	Higher			5.17	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.17	Lower	0.55	Lower	4.38	1.54
Amphibian & Turtle Habitat (AM)	2.17	Lower	3.93	Moderate	4.26	5.00
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.73	Moderate	10.00	Higher	4.99	10.00
Pollinator Habitat (POL)	7.17	Moderate	0.00	Lower	5.94	0.00
Native Plant Habitat (PH)	3.50	Lower	3.64	Lower	5.30	3.64
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.22	Higher		4.80
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.76	Higher		3.43
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.40	Higher	4.60	Moderate	8.96	2.04
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.08	Higher	2.50	Lower	8.83	2.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.22	Moderate	0.37	Lower	3.78	1.03
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.30	Lower	2.36	Moderate	2.56	3.00
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.32	Moderate	7.27	Moderate	5.68	7.27
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.99	Higher		4.12

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	43.21192915	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.22202661	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.924271366	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.072914043	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	45.98104113	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-48-2022

Date: September 27, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.905691 -64.24563

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.85	Lower	7.39	Higher	2.58	3.28
Stream Flow Support (SFS)	2.45	Moderate	8.30	Higher	1.97	5.53
Water Cooling (WC)	7.38	Higher	1.85	Lower	4.92	1.00
Sediment Retention & Stabilisation (SR)	1.74	Lower	8.51	Higher	3.56	4.17
Phosphorus Retention (PR)	1.78	Lower	7.50	Higher	4.86	5.83
Nitrate Removal & Retention (NR)	2.25	Lower	10.00	Higher	4.40	10.00
Carbon Sequestration (CS)	4.28	Moderate			7.22	
Organic Nutrient Export (OE)	9.21	Higher			6.02	
Anadromous Fish Habitat (FA)	4.32	Higher	1.52	Moderate	2.83	0.96
Resident Fish Habitat (FR)	2.04	Moderate	1.54	Moderate	1.11	0.96
Aquatic Invertebrate Habitat (INV)	3.48	Moderate	4.56	Moderate	4.91	3.70
Amphibian & Turtle Habitat (AM)	1.91	Lower	6.42	Higher	4.13	7.05
Waterbird Feeding Habitat (WBF)	6.31	Moderate	10.00	Higher	4.81	10.00
Waterbird Nesting Habitat (WBN)	4.10	Moderate	10.00	Higher	2.98	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.29	Moderate	10.00	Higher	6.35	10.00
Pollinator Habitat (POL)	9.02	Higher	0.00	Lower	7.48	0.00
Native Plant Habitat (PH)	3.91	Moderate	4.61	Lower	5.46	4.61
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.13	Moderate		3.92
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.41	Moderate		2.30
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	0.85	Lower	7.39	Higher	2.58	3.28
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.39	Moderate	9.33	Higher	6.11	8.33
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.42	Higher	6.60	Moderate	5.24	4.47
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.03	Moderate	7.95	Higher	3.99	7.90
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.88	Higher	7.43	Moderate	6.95	7.43
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.27	Moderate		3.11

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	6.307598035	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	31.68765008	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	48.98680118	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	39.95675721	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	58.598032	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-49-2022

Date: September 27, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.90595 -64.243249

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.38	Higher	4.97	Moderate	8.94	2.20
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.15	Higher	0.91	Lower	7.78	0.44
Phosphorus Retention (PR)	2.70	Lower	0.43	Lower	5.43	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.75	Higher			8.87	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	0.76	Lower	0.20	Lower	3.80	1.35
Amphibian & Turtle Habitat (AM)	0.00	Lower	3.93	Moderate	3.12	5.00
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.73	Moderate	10.00	Higher	4.99	10.00
Pollinator Habitat (POL)	7.45	Moderate	10.00	Higher	6.17	10.00
Native Plant Habitat (PH)	2.13	Lower	7.05	Moderate	4.75	7.05
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.11	Higher		4.48
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.24	Moderate		2.70
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.38	Higher	4.97	Moderate	8.94	2.20
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.45	Higher	2.44	Lower	9.01	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.37	Moderate	0.13	Lower	3.27	0.90
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.00	Lower	2.36	Moderate	1.87	3.00
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.28	Moderate	9.51	Higher	5.74	9.51
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.67	Moderate		3.59

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	46.60863361	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.65951192	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.579212824	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.66899852	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-50/51-2022

Date: September 27, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.908215 -64.239768

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.06	Lower	4.70	Moderate	1.99	2.08
Stream Flow Support (SFS)	4.90	Higher	8.92	Higher	3.94	5.94
Water Cooling (WC)	8.90	Higher	5.57	Moderate	5.93	3.02
Sediment Retention & Stabilisation (SR)	2.22	Lower	7.71	Higher	3.93	3.78
Phosphorus Retention (PR)	2.39	Lower	6.86	Higher	5.24	5.33
Nitrate Removal & Retention (NR)	2.56	Lower	10.00	Higher	4.62	10.00
Carbon Sequestration (CS)	3.91	Moderate			7.05	
Organic Nutrient Export (OE)	10.00	Higher			7.25	
Anadromous Fish Habitat (FA)	5.82	Higher	1.54	Moderate	3.81	0.98
Resident Fish Habitat (FR)	2.87	Moderate	1.57	Moderate	1.56	0.98
Aquatic Invertebrate Habitat (INV)	4.32	Moderate	5.99	Moderate	5.25	4.47
Amphibian & Turtle Habitat (AM)	3.90	Moderate	5.06	Moderate	5.17	5.93
Waterbird Feeding Habitat (WBF)	6.42	Moderate	5.00	Moderate	4.89	5.00
Waterbird Nesting Habitat (WBN)	4.80	Moderate	5.00	Higher	3.48	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.07	Higher	10.00	Higher	7.90	10.00
Pollinator Habitat (POL)	8.97	Higher	0.00	Lower	7.44	0.00
Native Plant Habitat (PH)	5.22	Moderate	5.11	Lower	5.99	5.11
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.09
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.37	Moderate		2.28
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	0.06	Lower	4.70	Moderate	1.99	2.08
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.34	Moderate	9.09	Higher	6.13	8.19
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.51	Higher	7.87	Higher	6.42	5.21
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.59	Moderate	4.35	Moderate	4.47	4.75
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.41	Higher	7.52	Moderate	7.50	7.52
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.18	Higher		3.69

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	0.262907574	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.38180402	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	67.03495177	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	24.30690135	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.25737884	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-52-2022

Date: September 27, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.909059 -64.234785

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.69	Lower	4.95	Moderate	3.21	2.19
Stream Flow Support (SFS)	1.93	Moderate	7.90	Higher	1.56	5.26
Water Cooling (WC)	8.40	Higher	1.22	Lower	5.60	0.66
Sediment Retention & Stabilisation (SR)	2.55	Lower	7.18	Higher	4.19	3.52
Phosphorus Retention (PR)	2.66	Lower	6.86	Higher	5.41	5.33
Nitrate Removal & Retention (NR)	2.12	Lower	10.00	Higher	4.31	10.00
Carbon Sequestration (CS)	3.90	Moderate			7.04	
Organic Nutrient Export (OE)	10.00	Higher			6.67	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.23	Moderate	4.02	Moderate	5.22	3.41
Amphibian & Turtle Habitat (AM)	5.00	Moderate	4.93	Moderate	5.74	5.82
Waterbird Feeding Habitat (WBF)	6.28	Moderate	5.00	Moderate	4.78	5.00
Waterbird Nesting Habitat (WBN)	3.10	Moderate	5.00	Higher	2.25	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.83	Higher	5.00	Moderate	7.68	5.00
Pollinator Habitat (POL)	8.57	Higher	10.00	Higher	7.10	10.00
Native Plant Habitat (PH)	3.94	Moderate	10.00	Higher	5.47	10.00
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			5.56	Moderate		3.76
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.19	Moderate		2.20
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.69	Lower	4.95	Moderate	3.21	2.19
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.35	Moderate	9.01	Higher	6.14	8.14
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.07	Higher	6.14	Moderate	5.72	4.18
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.58	Moderate	3.99	Moderate	4.15	4.49
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.97	Higher	9.17	Higher	7.22	9.17
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			4.88	Moderate		2.98

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	8.373477843	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.20565322	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	49.56592064	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	18.28856824	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	73.06335629	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-53-2022

Date: September 27, 2022

Observer: ZS

Latitude & Longitude (decimal degrees): 44.9089193 -64.2326223

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.12	Higher	5.12	Moderate	8.00	2.27
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	0.45	Lower	6.11	0.22
Phosphorus Retention (PR)	1.72	Lower	0.43	Lower	4.82	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	4.86	Moderate			7.50	
Organic Nutrient Export (OE)	8.97	Higher			5.86	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.57	Lower	0.70	Lower	4.54	1.62
Amphibian & Turtle Habitat (AM)	2.71	Lower	1.98	Lower	4.55	3.39
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.94	Moderate	5.00	Moderate	5.17	5.00
Pollinator Habitat (POL)	6.34	Moderate	0.00	Lower	5.25	0.00
Native Plant Habitat (PH)	2.51	Lower	3.47	Lower	4.90	3.47
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.40	Higher		4.57
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.84	Moderate		2.51
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	8.12	Higher	5.12	Moderate	8.00	2.27
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.70	Higher	2.37	Lower	8.55	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.93	Higher	0.46	Lower	4.23	1.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.63	Lower	1.19	Lower	2.73	2.03
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.63	Moderate	3.91	Lower	5.18	3.91
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.62	Moderate		3.54

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	41.54898146	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.24395306	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.750406681	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.928112526	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	22.04349569	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-54-2022-BM

Date:September 28, 2022

Observer:Zach Simai

Latitude & Longitude (decimal degrees):44.891055, -64.250087

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.38	Higher	4.51	Moderate	8.94	2.00
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.15	Higher	0.91	Lower	7.78	0.44
Phosphorus Retention (PR)	2.70	Lower	0.43	Lower	5.43	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	8.94	Higher			9.43	
Organic Nutrient Export (OE)	6.85	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	0.64	Lower	0.31	Lower	3.75	1.41
Amphibian & Turtle Habitat (AM)	0.50	Lower	3.96	Moderate	3.39	5.03
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.84	Moderate	10.00	Higher	5.08	10.00
Pollinator Habitat (POL)	6.34	Moderate	10.00	Higher	5.25	10.00
Native Plant Habitat (PH)	1.81	Lower	6.78	Moderate	4.62	6.78
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.16	Higher		4.50
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.38	Higher	4.51	Moderate	8.94	2.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.60	Higher	2.44	Lower	9.08	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.36	Moderate	0.21	Lower	3.27	0.94
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.30	Lower	2.38	Moderate	2.03	3.02
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.50	Moderate	9.46	Higher	5.12	9.46
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.79	Higher		4.12

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	42.30027252	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.02224123	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.904142936	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.709279167	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.06958241	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-55-2022-BM

Date:September 28, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.892058, -64.251594

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.65	Higher	4.17	Moderate	9.15	1.85
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.86	Higher	0.45	Lower	8.33	0.22
Phosphorus Retention (PR)	2.99	Lower	0.43	Lower	5.62	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.84	Higher			8.91	
Organic Nutrient Export (OE)	7.06	Moderate			4.61	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.69	Higher	0.66	Lower	5.81	1.60
Amphibian & Turtle Habitat (AM)	0.83	Lower	4.35	Moderate	3.56	5.34
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.92	Moderate	10.00	Higher	6.02	10.00
Pollinator Habitat (POL)	8.07	Higher	10.00	Higher	6.69	10.00
Native Plant Habitat (PH)	4.89	Moderate	7.57	Moderate	5.85	7.57
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.93	Higher		4.43
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			5.06	Moderate		2.62
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.65	Higher	4.17	Moderate	9.15	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.59	Higher	2.37	Lower	9.11	2.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.25	Moderate	0.44	Lower	4.31	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.50	Lower	2.61	Moderate	2.14	3.20
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.35	Higher	9.59	Higher	6.44	9.59
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.50	Moderate		3.52

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	40.29311513	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.34516563	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.296234284	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.29463581	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	70.48853811	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-56-2022-BM

Date:September 28, 2022

Observer:Katie Couvrette, Farrah Stevens

Latitude & Longitude (decimal degrees):44.884, -64.256463

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.93	Moderate	4.51	Moderate	7.12	2.00
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	7.55	Higher	0.00	Lower	5.03	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.21	Moderate	10.00	0.59
Phosphorus Retention (PR)	10.00	Higher	0.43	Lower	10.00	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	3.68	Moderate			6.94	
Organic Nutrient Export (OE)	8.43	Higher			5.51	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.62	Higher	5.33	Moderate	5.79	4.11
Amphibian & Turtle Habitat (AM)	7.05	Higher	6.87	Higher	6.82	7.42
Waterbird Feeding Habitat (WBF)	6.08	Moderate	10.00	Higher	4.63	10.00
Waterbird Nesting Habitat (WBN)	7.71	Higher	10.00	Higher	5.59	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.78	Higher	10.00	Higher	7.64	10.00
Pollinator Habitat (POL)	8.37	Higher	10.00	Higher	6.94	10.00
Native Plant Habitat (PH)	2.93	Lower	8.19	Higher	5.07	8.19
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.53	Moderate		4.03
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.41	Higher		3.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.93	Moderate	4.51	Moderate	7.12	2.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.21	Higher	2.50	Lower	9.62	2.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.92	Higher	3.55	Lower	4.93	2.74
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.94	Moderate	7.69	Higher	5.11	7.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.74	Higher	9.70	Higher	7.10	9.70
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.97	Higher		3.89

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	31.28794412	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.98205911	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	24.55877604	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	45.65671807	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	75.04591137	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-57-2022-BM

Date:September 28, 2022

Observer:Zach Simai

Latitude & Longitude (decimal degrees):44.888948, -64.251403

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.44	Higher	4.17	Moderate	8.24	1.85
Stream Flow Support (SFS)	0.79	Lower	0.00	Lower	0.64	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.73	Moderate	1.13	Moderate	6.67	0.56
Phosphorus Retention (PR)	2.57	Lower	0.43	Lower	5.36	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	4.42	Moderate			7.29	
Organic Nutrient Export (OE)	9.15	Higher			5.98	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.70	Higher	0.69	Lower	5.82	1.62
Amphibian & Turtle Habitat (AM)	2.55	Lower	4.03	Moderate	4.46	5.08
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.02	Moderate	10.00	Higher	5.24	10.00
Pollinator Habitat (POL)	9.03	Higher	10.00	Higher	7.49	10.00
Native Plant Habitat (PH)	3.89	Moderate	7.58	Moderate	5.46	7.58
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.70	Higher		4.65
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			7.50	Higher		3.78
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	8.44	Higher	4.17	Moderate	8.24	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.84	Higher	2.48	Lower	8.66	2.37
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.53	Higher	0.46	Lower	4.55	1.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.53	Lower	2.42	Moderate	2.68	3.05
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.67	Higher	9.60	Higher	6.77	9.60
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			8.10	Higher		4.22

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	35.2312928	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.46392608	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.014902479	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.703838272	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	73.64364918	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-58-2022-BM

Date:September 29, 2022

Observer:Katie Couvrette

Latitude & Longitude (decimal degrees):44.875993, -64.260346

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	9.35	Higher	4.68	Moderate	8.92	2.08
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	7.15	Higher	1.13	Moderate	7.78	0.56
Phosphorus Retention (PR)	2.42	Lower	0.43	Lower	5.26	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.90	Higher			8.94	
Organic Nutrient Export (OE)	6.76	Moderate			4.42	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.85	Lower	0.44	Lower	4.25	1.48
Amphibian & Turtle Habitat (AM)	0.68	Lower	4.10	Moderate	3.48	5.14
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.22	Moderate	10.00	Higher	5.42	10.00
Pollinator Habitat (POL)	7.40	Moderate	10.00	Higher	6.13	10.00
Native Plant Habitat (PH)	2.60	Lower	7.18	Moderate	4.94	7.18
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.99	Higher		4.45
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			6.41	Higher		3.26
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	9.35	Higher	4.68	Moderate	8.92	2.08
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.43	Higher	2.48	Lower	9.00	2.37
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.46	Moderate	0.30	Lower	3.29	0.99
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.41	Lower	2.46	Moderate	2.09	3.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.40	Moderate	9.53	Higher	5.81	9.53
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.20	Higher		3.86

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	43.78535187	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.93968838	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.320736561	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.009354017	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.01231135	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL-59-2022-BM

Date:September 29, 2022

Observer: Zacharye Simai

Latitude & Longitude (decimal degrees):44.881654, -64.256855

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.48	Lower	4.34	Moderate	3.05	1.93
Stream Flow Support (SFS)	4.21	Moderate	9.06	Higher	3.39	6.03
Water Cooling (WC)	8.90	Higher	8.58	Higher	5.93	4.65
Sediment Retention & Stabilisation (SR)	4.23	Moderate	8.20	Higher	5.50	4.02
Phosphorus Retention (PR)	1.62	Lower	6.86	Higher	4.76	5.33
Nitrate Removal & Retention (NR)	2.61	Lower	10.00	Higher	4.66	10.00
Carbon Sequestration (CS)	4.01	Moderate			7.10	
Organic Nutrient Export (OE)	10.00	Higher			6.76	
Anadromous Fish Habitat (FA)	6.41	Higher	1.88	Moderate	4.20	1.19
Resident Fish Habitat (FR)	4.22	Moderate	1.91	Moderate	2.29	1.19
Aquatic Invertebrate Habitat (INV)	7.52	Higher	7.07	Higher	6.56	5.05
Amphibian & Turtle Habitat (AM)	4.83	Moderate	7.59	Higher	5.66	8.02
Waterbird Feeding Habitat (WBF)	7.85	Higher	10.00	Higher	5.97	10.00
Waterbird Nesting Habitat (WBN)	5.68	Moderate	10.00	Higher	4.12	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.27	Higher	10.00	Higher	8.07	10.00
Pollinator Habitat (POL)	9.88	Higher	10.00	Higher	8.19	10.00
Native Plant Habitat (PH)	6.82	Higher	8.75	Higher	6.62	8.75
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.69
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.45	Moderate		2.33
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.48	Lower	4.34	Moderate	3.05	1.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.68	Moderate	9.18	Higher	6.30	8.23
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.83	Higher	8.65	Higher	6.21	5.63
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.82	Higher	8.14	Higher	5.21	8.04
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	9.27	Higher	9.79	Higher	7.91	9.79
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.23	Higher		4.01

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	6.444547813	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	33.74187583	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	76.31852025	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	55.531381	Moderate
HABITAT SUPERGROUP - TRANSITION HABITAT	90.7632052	High

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	YES
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-60-2022-BM

Date:September 29, 2022

Observer:Katie Couvrette

Latitude & Longitude (decimal degrees):44.872253, -64.263374

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.59	Moderate	7.22	Higher	6.87	3.20
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	5.40	Higher	0.00	Lower	3.60	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.86	Moderate	10.00	0.91
Phosphorus Retention (PR)	10.00	Higher	1.52	Moderate	10.00	1.18
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher	10.00	10.00
Carbon Sequestration (CS)	3.96	Moderate			7.07	
Organic Nutrient Export (OE)	7.75	Higher			5.07	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.35	Higher	3.86	Moderate	6.08	3.32
Amphibian & Turtle Habitat (AM)	5.15	Moderate	6.48	Higher	5.82	7.10
Waterbird Feeding Habitat (WBF)	4.48	Moderate	10.00	Higher	3.41	10.00
Waterbird Nesting Habitat (WBN)	3.87	Moderate	10.00	Higher	2.81	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.06	Higher	10.00	Higher	7.88	10.00
Pollinator Habitat (POL)	8.88	Higher	10.00	Higher	7.36	10.00
Native Plant Habitat (PH)	3.54	Lower	8.41	Higher	5.31	8.41
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.49
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			7.06	Higher		3.57
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.59	Moderate	7.22	Higher	6.87	3.20
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.24	Higher	7.23	Higher	9.63	7.02
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.31	Higher	2.57	Lower	4.89	2.21
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.93	Moderate	7.65	Higher	4.12	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.11	Higher	9.74	Higher	7.37	9.74
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			8.53	Higher		4.53

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	47.59721258	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	66.84203104	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	16.23009627	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	30.03672632	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	78.93480594	Moderate

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-61-2022-BM

Date: September 29, 2022

Observer:Zach Simai

Latitude & Longitude (decimal degrees):44.873066, -64.269766

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.66	Moderate	3.95	Moderate	6.91	1.75
Stream Flow Support (SFS)	0.59	Lower	0.00	Lower	0.47	0.00
Water Cooling (WC)	8.90	Higher	0.00	Lower	5.93	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.78	Moderate	10.00	0.87
Phosphorus Retention (PR)	3.19	Moderate	0.86	Lower	5.74	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	4.33	Moderate			7.25	
Organic Nutrient Export (OE)	9.63	Higher			6.29	
Anadromous Fish Habitat (FA)	2.23	Moderate	1.83	Moderate	1.46	1.16
Resident Fish Habitat (FR)	2.79	Moderate	1.86	Moderate	1.51	1.16
Aquatic Invertebrate Habitat (INV)	6.66	Higher	6.10	Higher	6.21	4.53
Amphibian & Turtle Habitat (AM)	5.52	Moderate	3.57	Moderate	6.02	4.70
Waterbird Feeding Habitat (WBF)	7.61	Higher	0.00	Lower	5.79	0.00
Waterbird Nesting Habitat (WBN)	5.65	Moderate	0.00	Lower	4.09	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.54	Higher	0.00	Lower	8.31	0.00
Pollinator Habitat (POL)	9.25	Higher	0.00	Lower	7.67	0.00
Native Plant Habitat (PH)	6.40	Higher	5.32	Moderate	6.45	5.32
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.93	Higher		4.72
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			5.32	Moderate		2.74
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	6.66	Moderate	3.95	Moderate	6.91	1.75
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.44	Higher	3.77	Moderate	9.12	3.59
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.04	Higher	4.07	Moderate	5.51	3.02
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.18	Moderate	2.51	Moderate	4.90	3.05
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.97	Higher	3.55	Lower	7.89	3.55
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.13	Higher		3.73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	26.28169602	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	31.84127318	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	32.69737235	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	15.51113661	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	31.84250962	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-62-2022-BM

Date:September 29, 2022

Observer:Katie Couvrette

Latitude & Longitude (decimal degrees):44.882105, -64.278641

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.22	Lower	4.46	Moderate	2.86	1.98
Stream Flow Support (SFS)	3.52	Moderate	9.51	Higher	2.83	6.33
Water Cooling (WC)	7.55	Higher	8.14	Higher	5.03	4.41
Sediment Retention & Stabilisation (SR)	3.52	Lower	8.58	Higher	4.94	4.20
Phosphorus Retention (PR)	1.66	Lower	7.29	Higher	4.78	5.67
Nitrate Removal & Retention (NR)	3.34	Moderate	10.00	Higher	5.19	10.00
Carbon Sequestration (CS)	3.32	Moderate			6.77	
Organic Nutrient Export (OE)	9.64	Higher			6.30	
Anadromous Fish Habitat (FA)	7.16	Higher	1.58	Moderate	4.69	1.00
Resident Fish Habitat (FR)	5.07	Moderate	1.60	Moderate	2.75	1.00
Aquatic Invertebrate Habitat (INV)	8.16	Higher	7.12	Higher	6.82	5.08
Amphibian & Turtle Habitat (AM)	5.20	Moderate	5.20	Moderate	5.85	6.05
Waterbird Feeding Habitat (WBF)	6.56	Higher	5.00	Moderate	5.00	5.00
Waterbird Nesting Habitat (WBN)	5.56	Moderate	5.00	Higher	4.03	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.36	Higher	5.00	Moderate	8.15	5.00
Pollinator Habitat (POL)	8.89	Higher	0.00	Lower	7.37	0.00
Native Plant Habitat (PH)	6.98	Higher	5.17	Lower	6.69	5.17
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.56
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			4.89	Moderate		2.53
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.22	Lower	4.46	Moderate	2.86	1.98
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.24	Moderate	9.31	Higher	6.09	8.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.43	Higher	8.88	Higher	6.03	5.80
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.54	Higher	4.44	Moderate	5.16	4.83
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.88	Higher	4.28	Lower	7.77	4.28
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.44	Higher		4.05

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	5.446035677	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.17421155	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	74.87623053	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	29.00949805	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	38.02705213	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID:WL-63/64-2022-BM

Date:September 29, 2022

Observer:Tyler Sims, Zach Simai

Latitude & Longitude (decimal degrees):44.872775, -64.27264

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.14	Lower	6.77	Higher	2.80	3.00
Stream Flow Support (SFS)	4.21	Moderate	8.43	Higher	3.39	5.61
Water Cooling (WC)	8.90	Higher	8.57	Higher	5.93	4.65
Sediment Retention & Stabilisation (SR)	3.70	Moderate	8.77	Higher	5.08	4.30
Phosphorus Retention (PR)	1.51	Lower	7.50	Higher	4.69	5.83
Nitrate Removal & Retention (NR)	2.64	Lower	10.00	Higher	4.68	10.00
Carbon Sequestration (CS)	4.26	Moderate			7.21	
Organic Nutrient Export (OE)	10.00	Higher			6.73	
Anadromous Fish Habitat (FA)	6.77	Higher	1.80	Moderate	4.44	1.14
Resident Fish Habitat (FR)	4.40	Moderate	1.83	Moderate	2.39	1.14
Aquatic Invertebrate Habitat (INV)	5.72	Higher	7.17	Higher	5.83	5.10
Amphibian & Turtle Habitat (AM)	5.22	Moderate	4.56	Moderate	5.86	5.52
Waterbird Feeding Habitat (WBF)	7.50	Higher	2.50	Lower	5.71	2.50
Waterbird Nesting Habitat (WBN)	5.34	Moderate	2.50	Moderate	3.88	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.60	Higher	2.50	Lower	8.36	2.50
Pollinator Habitat (POL)	9.08	Higher	0.00	Lower	7.52	0.00
Native Plant Habitat (PH)	6.56	Higher	5.29	Lower	6.52	5.29
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.37
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			4.89	Moderate		2.53
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.14	Lower	6.77	Higher	2.80	3.00
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.64	Moderate	9.38	Higher	6.31	8.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.60	Higher	8.31	Higher	6.10	5.36
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.67	Higher	3.60	Moderate	5.16	4.04
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	9.01	Higher	3.94	Lower	7.91	3.94
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			7.44	Higher		3.95

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

1. General Description of Tool:

This interpretive tool automatically determines whether the subject wetland will be regulated as a Wetland of Special Significance (WSS). This determination is made based on the WESP-AC functional results, per the Nova Scotia *Wetland Conservation Policy* .

A 'Function-Benefit Product' (FBP) is calculated based upon the Grouped Functions, and has a theoretical maximum of 100. Threshold values for the FBP are applied, in order to categorize the FBP scores into 'Low', 'Moderate' or 'High' scores. Thresholds are determined based upon the statistical distribution of WESP-AC scores compiled from various sites across the Province (N=442). These categories are subsequently used to apply various 'Functional WSS Rules', as described below.

For the purpose of defining and applying the Functional WSS rules, two supergroups are defined based on grouped functions, as follows: **(1) Support Supergroup** - includes Hydrologic, Water Quality Support, and Aquatic Support grouped functions. **(2) Habitat Supergroup** - includes Aquatic Habitat and Transition Habitat grouped functions.

2. Functional WSS Rule Definitions:

Habitat Rule: In consideration of the Habitat Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(HAB 1) Two 'High Scores' OR

(HAB 2) One 'High' and one 'Moderate' score

Support Rule: In consideration of the Support Supergroup, the subject wetland is a WSS if either of the following sub-rules are satisfied:

(SUP 1) Three 'High' scores OR

(SUP 2) Two 'High' and one 'Moderate' score

Habitat/Support Hybrid Rule: In consideration of both the Habitat and Support Supergroups, the subject wetland is a WSS if the following is satisfied:

(HYB 1) One 'High' Habitat score **AND** Two or three 'High' Support scores

3. Functional WSS Interpretation Results

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	7.733921748	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	34.16674094	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	71.53305183	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	24.03532111	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.53057191	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION:	**Site is not a WSS**