APPENDIX H.2
Baseline Aquatic Environment Report

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ENVIRONMENTAL IMPACT STATEMENT
EVREC Green Energy Hub
Exploits Valley Renewable Energy Corporation

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CONSULTING

BASELINE AQUATIC ENVIRONMENT REPORT
EVREC Green Energy Hub
Near Botwood, NL

May 11, 2026

EXECUTIVE SUMMARY

This Baseline Aquatic Environment Report was prepared to provide baseline methods and results from desktop and field surveys to inform Project design and future surveys for the Exploits Valley Renewable Energy Corporation (EVREC) wind to green ammonia project on the brownfield, former Abitibi lands, near Botwood in central Newfoundland, Canada.

A desktop review was completed to inform the design of field studies by modelling and characterizing potential aquatic features, identifying assessment locations, and identifying fish species that are expected to be present within the Project Area (PA). The PA intersects 94 local watersheds. Three watersheds fall within the Twin Lakes Wind Project Area (TLWPA), six intersect the Seabrights Lake Wind Project Area (SLWPA), 28 fall within the Leading Tickles Wind Project Area (LTWPA), 48 intersect the Botwood Wind Project Area (BWPA), 7 intersect the Industrial Project Area (IPA) and surrounding area within EVREC's application for Crown Land, and two intersect the Solar Project Area (SPA). A desktop review of watercourse crossings revealed that there are 1,307 watercourse crossings within the Wind Project Area (WPA), none within the SPA, and 30 within the IPA. Watercourses were classified as N, S1, or S2, based on upstream drainage area. Within the entire PA, 2.17% of N, 24.39% of S1, and 28.57% of S2 watercourses were assessed, which meets the target of assessing 10% of S1 and 25% of S2 watercourses.

Crossing assessments were completed at 64 watercourses across the PA. Crossings were selected by prioritizing the scheduled salmon rivers that intersect the PA and randomly selecting other watercourses via proportional random stratified sampling according to watershed area. Watercourses were assessed at the crossing (T_0), 100 m upstream (T_1) and 100 m downstream (T_2). Assessments were based on the methods outlined in Sooley et al. (1998) and included characterizing instream woody debris and vegetation, canopy cover, watercourse width, depth, flow (i.e., pool, riffle, run), surface velocity, gradient, substrate composition and embeddedness, and bank characteristics, including proportion of undercut banks, bank stability, and dominant bank vegetation. Detailed fish habitat surveys were completed by Strum in all watercourses intersecting the Project Footprints of the IPA and SPA.

Trapping surveys were conducted in 29 locations throughout the PA and resulted in the capture of 219 individual fish. Electrofishing surveys were conducted in 22 locations, all within the WPA, resulting in the capture of 348 individual fish captured. Altogether, four species and 567 individuals were captured through fishing efforts: American eel (*Anguilla rostrata*), brook trout (*Salvelinus fontinalis*), Atlantic salmon (*Salmo salar*), and threespine stickleback (*Gasterosteus aculeatus*).

Water quality was collected in-situ during fish collection and fish habitat characterization surveys and at 12 water quality monitoring stations. Generally, water quality parameters including temperature, pH, and dissolved oxygen were considered suitable for the species expected to be present. In some watercourses, certain parameters are expected to exceed optimal ranges, especially during summer months.

TABLE OF CONTENTS

page

1.0 INTRODUCTION 1

2.0 SPATIAL BOUNDARIES 2

3.0 REGULATORY CONTEXT 2

4.0 METHODOLOGY 3

4.1 Desktop Review Methodology 3
4.1.1 Watersheds and Water Resources 4
4.1.2 Surface Water Classification 5
4.1.3 Fish Community 6
4.2 Field Surveys Methodology 6
4.2.1 Fish Collection 7
4.2.1.1 Electrofishing 7
4.2.1.2 Trapping 8
4.2.2 Fish Habitat Characterization Surveys 10
4.2.2.1 Watercourse Crossing Assessments 10
4.2.2.2 Detailed Fish Habitat Assessment 10
4.2.3 Water Quality 11
4.2.3.1 In-Situ Water Quality 11

5.0 RESULTS 12

5.1 Desktop Review Results 12
5.1.1 Watersheds and Water Resources 12
5.1.2 Surface Water Classification 17
5.1.3 Fish Community 19
5.2 Field Results 20
5.2.1 Fish Collection 20
5.2.1.1 Electrofishing 20
5.2.1.2 Trapping 23
5.2.1.3 Fish Species Observed 27
5.2.2 Fish Habitat Characterization Surveys 29
5.2.2.1 Watercourse Crossing Assessments 29
5.2.2.2 Detailed Fish Habitat Assessment 36
5.2.3 Water Quality 40
5.2.3.1 In-Situ Water Quality 40
5.2.3.2 Temperature 44
5.2.3.3 pH 45
5.2.3.4 Dissolved Oxygen 46
5.2.3.5 Specific Conductivity and Turbidity 47
5.2.3.6 Marine Surface Water Sampling 47

6.0 SUMMARY OF CONDITIONS 48

6.1.1 Wind and Transmission Component 48

6.1.1.1 Surface Water Classification 49
6.1.1.2 Fish and Fish Habitat 49
6.1.1.3 In-Situ Water Quality 49
6.1.2 Solar Component 50
6.1.2.1 Surface Water Classification 51
6.1.2.2 Fish and Fish Habitat 51
6.1.2.3 Detailed Fish Habitat Assessment 51
6.1.3 Industrial Component 51
6.1.3.1 Surface Water Classification 52
6.1.3.2 Watersheds and Water Resources 52
6.1.3.3 Fish and Fish Habitat 52
6.1.3.4 In-Situ Water Quality 53
7.0 STATEMENT OF QUALIFICATIONS AND LIMITATIONS 54
8.0 REFERENCES 56

LIST OF TABLES

Table 4.1: Summary of Surveys and EIS Guidelines 3
Table 4.2: Electrofishing Locations and Details 8
Table 4.3: Summary of Trapping Locations 9
Table 5.1: List of Local Watersheds in the PA 12
Table 5.2: Named Waterbodies & Watercourses within the PA 15
Table 5.3. Summary of Watercourses Assessed 18
Table 5.4: Summary of Electrofishing Efforts 21
Table: 5.5: Summary of Trapping Efforts 24
Table 5.6: Fish Species Captured within the PA 27
Table 5.7: Life Cycle and Habitat Characteristics of Fish Species Documented within the PA 31
Table 5.8: Summary of Watercourse Crossing Characteristics 32
Table 5.9: Summary of Detailed Fish Habitat Assessment Results 37
Table 5.10: Summary of Key Diagnostic Features of Fish Habitat within Wetland Mosaics 38
Table 5.11: Summary of In-Situ Water Quality Measurements 40
Table 5.12: Marine Surface Water Quality Results 47
Table 6.1: Summary of Results within the WPA 48
Table 6.2: Summary of Results within the SPA 50
Table 6.3: Summary of Results within the IPA 51

LIST OF APPENDICES

Appendix A: Drawings
Appendix B: Surface Water Classification
Appendix C: Photograph Logs
Appendix D: Field Results

LIST OF ACRONYMS

ACCDC	Atlantic Canada Conservation Data Centre
AP	Aquatic plants
ATS	Atlantic salmon
BKT	Brook trout
BWPA	Botwood Wind Project Area
CCME	Canadian Council of Ministers of the Environment
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPUE	Catch per unit effort
DEM	Digital Elevation Model
DFO	Department of Fisheries and Oceans Canada
DO	Dissolved Oxygen
EEL	American eel
EVREC	Exploits Valley Renewable Energy Corporation
EIS	Environmental Impact Statement
ESA	*Endangered Species Act*
E	Ephemeral
FNU	Formazin Nephelometric Units
FWAL	Freshwater Aquatic Life
GW	Gigawatt
Ha	Hectare
IN	Instream
IPA	Industrial Project Area
I	Intermittent
Km	Kilometre
LTWPA	Leading Tickles Wind Project Area
L	Large watercourses
m	Metre
mm	millimetre
MW	Megawatt
NLECCC	Newfoundland and Labrador Environment, Conservation and Climate Change
NLFAL	Newfoundland and Labrador Department of Forestry, Agriculture and Lands
N	Intermittent
O	Overhead
PA	Project Area
PF	Project Footprint
P	Perennial
SAR	Species at Risk
SARA	*Species at Risk Act*
SLWPA	Seabrights Lake Wind Project Area
SOCC	Species of Conservation Concern
SPA	Solar Project Area
SPC	Specific Conductivity

S1, S2, S3	Small watercourse
I1, I2	Intermediate watercourses
TLWPA	Twin Lakes Wind Project Area
WPA	Wind Project Area
WQM	Water Quality Monitoring
YOY	Young of the Year
°C	Degrees Celsius

1.0 INTRODUCTION

Exploits Valley Renewable Energy Corporation (EVREC, the "Proponent"), is proposing to develop, construct, and operate a wind to green ammonia project on the brownfield, former Abitibi lands, near Botwood in central Newfoundland, Canada (the "Project") (Drawing 1, Appendix A). EVREC will develop an onshore wind project consisting of up to 534 wind turbines, a 150 megawatt (MW) Solar Project, and associated off-site infrastructure (export and import terminals, access roads, collector substations, and water pipelines). Included as part of the Project will be an Industrial Facility comprised of 2.6 gigawatt (GW) of electrolysers utilizing a combination of proton exchange membrane and aqueous solution units, air separation plants, ammonia plant, electrical energy storage facilities, molecular storage, water purification systems, warehousing, administrative buildings, and other associated utility infrastructure (switchyards, transformers, pipelines, emergency generators, and cooling systems) including an electrical grid connection for critical loads. Collectively the wind to green ammonia project, including all components mentioned above, will be referred to as the "EVREC Green Energy Hub", or "the Project".

The Project nameplate capacity will be up to 3.5 GW of electrical power and produce 925,000 to 1,000,000 tons per year of certified green ammonia. The Project is considered an undertaking under Section 34 (1f) of the Newfoundland and Labrador Environmental Assessment Regulations (2003), where electrical power generation that has a capacity greater than 1 MW and engages in the manufacturing of green hydrogen and ammonia, which requires the submission of an Environmental Impact Statement (EIS). The Project will involve development, construction, operations, decommissioning, and reclamation of wind projects, a solar project, an industrial facility, and water supply for green hydrogen production and ammonia synthesis, including air separation, water treatment, and ammonia storage.

The Project will use the existing Port of Botwood for its shipping needs, which has historically served various clients across industrial sectors for over 100 years. The Project is proposed on land parcels totaling 35,834 hectares (ha) in central Newfoundland (defined hereafter as the Project Area). The Project is centered at 49.161441° N, 55.486669° W.

Within the Project Area (PA), siting of wind turbine generators will be within four areas: Botwood, Seabrights Lake, Twin Lakes, and Leading Tickles. The Industrial Facility and Solar Project, along with associated infrastructure, are co-located on a parcel southwest of the Town of Botwood. For the purposes of the EIS, the Project consists of three components: (i) Wind Projects and transmission line; (ii) Solar Project; and (iii) hydrogen and ammonia production facilities (defined hereafter as the Industrial Facility).

2.0 SPATIAL BOUNDARIES

The spatial boundaries discussed throughout this report are defined as follows:

- Project Area (PA) – the sum of all component project areas
- Wind Project Area (WPA) – the sum of all wind project areas
    - Botwood Wind Project Area (BWPA) – the individual Botwood Wind Project Area.
    - Leading Tickles Wind Project Area (LTWPA) – the individual Leading Tickles Wind Project Area.
    - Twin Lakes Wind Project Area (TLWPA) – the individual Twin Lakes Wind Project Area.
    - Seabrights Lake Wind Project Area (SLWPA) – the individual Seabrights Lake Wind Project Area.
- Industrial Project Area (IPA) – the industrial Project component Project Area.
- Solar Project Area (SPA) – the solar Project component Project Area.

The spatial boundaries are presented in Drawing 1 (Appendix A).

3.0 REGULATORY CONTEXT

The *Water Resources Act* (Newfoundland and Labrador, 2002) requires an approval from Newfoundland Environment, Conservation, and Climate Change (NLECCC) prior to any alterations to a body of water. Therefore, it is necessary to understand what watercourses and water resources are present within the PA prior to development.

The *Water Resources Act* defines a body of water as:

> "a surface or subterranean source of fresh or salt water within the jurisdiction of the province, whether that source usually contains liquid or frozen water or not, and includes water above the bed of the sea that is within the jurisdiction of the province, a river, stream, brook, creek, watercourse, lake, pond, spring, lagoon, ravine, gully, canal, wetland and other flowing or standing water and the land occupied by that body of water".

Using this definition and the parameters listed in the Guidelines for Applying to Alter a Body of Water (Newfoundland and Labrador, 2018b), surface water features were identified and described throughout the PA to support the description of fish habitat, and effects to regulated watercourses which may require provincial approval.

Although the *Water Resources Act* also defines a body of water as "surface or subterranean", this section focuses on surface water features in the context of fish habitat provision.

The *Fisheries Act* (Canada, 1985) defines fish as "(a) parts of fish, (b) shellfish, crustaceans, marine animals and any parts of shellfish, crustaceans or marine animals, and (c) the eggs, sperm, spawn, larvae, spat and juvenile stages of fish, shellfish, crustaceans and marine animals;", and fish habitat as "waters frequented by fish and any other areas on which fish depend directly or indirectly to carry out their life processes, including spawning grounds and nursery, rearing, food supply and migration areas".

Within the *Fisheries Act*, activities which result in the death of fish (other than fishing) or the harmful alteration, disruption, or destruction of fish habitat are prohibited without authorization.

In Newfoundland and Labrador, retention of Atlantic salmon is only permitted on scheduled rivers. Scheduled salmon rivers are explicitly named and listed in the Newfoundland and Labrador Fishery Regulations (Newfoundland and Labrador, 2018a). Correspondence with Fisheries and Oceans Canada (DFO) indicated that all scheduled salmon rivers that are anticipated to be directly or indirectly affected by the Project must be characterized.

4.0 METHODOLOGY

Table 4.1 summarizes field studies completed within each relevant Project Component. All surveys were completed within each component.

Table 4.1: Summary of Surveys and EIS Guidelines

Survey	Baseline Section	Description
Desktop Review	5.1	Characterization of fish habitat for all potential waterbodies/watercourses that may be directly or indirectly affected by the Project using aerial and satellite imagery (NLECCC, 2025).
Fish Collection	5.2.1	Assessment of biological characteristics and determination of fish species presence within a subset of watercourses. Characterization of fish species and life stage (NLECCC, 2025).
Fish Habitat Characterization	5.2.2	Assessment of physical characteristics and determination of presence of suitable habitat for species known within the PA (NLECCC, 2025).
Water Quality	5.2.3	Assessment of physical characteristics and determination of presence of suitable habitat for species known within the PA (NLECCC, 2025).

4.1 Desktop Review Methodology

The following sections describe the desktop review methodologies used to characterize surface water and fish and fish habitat within or in proximity to the PA. The goal of the desktop review was to identify where watercourses and waterbodies are, classify and characterize waterbodies and watercourses, and identify fish species that may occur within the PA (Drawing 2 A-K, Appendix A).

The results of the desktop review helped inform field studies by identifying assessment locations based on the guidance provided by DFO for watercourse crossing assessments (T. Wight, personal communication, March 25, 2025).

4.1.1 Watersheds and Water Resources

A desktop study was conducted to identify all potential permanent and intermittent bodies of water that intersect the PA or a 5 km buffer. Waterbodies and watercourses were identified using the following sources:

- Provincial Land Cover (NLFAL, 2025)
- Federal CanVec watercourse and waterbody shapefiles (NRCan, 2023a)
- Provincial digital elevation model (DEM) (NRCan, 2024)
- Newfoundland and Labrador Land Use Atlas (Newfoundland and Labrador, 2025)
- Newfoundland and Labrador Angler's Guide (DFO, 2025c)
- Water Resources Portal (NLECCC, 2022)

Surface water flow was modelled using the Government of Newfoundland and Labrador provincial 5 m resolution DEM, which provided the foundational terrain data for the hydrological preprocessing. The DEM was first conditioned to remove spurious sinks and ensure continuous downslope flow paths. Following conditioning, flow direction was computed using the D8 algorithm, assigning each cell a single downslope direction based on the steepest gradient. The resulting flow-direction raster served as the input for generating a flow-accumulation raster, which quantified the number of upstream cells contributing runoff to each location.

To delineate the drainage network, a threshold-based approach was applied to the flow-accumulation raster. Stream initiation points were defined only where accumulated flow exceeded the equivalent of 3,000 upstream cells at 5 m resolution (i.e., 3,000 × 25 m² of contributing area). This threshold was selected following a systematic review of high-resolution aerial imagery, in which visible channel heads were compared against flow-accumulation values to identify the point at which surface drainage features consistently appeared. This threshold ensured that mapped channels represented persistent drainage features, rather than artefacts of micro-topography. The extracted stream network and associated catchments were subsequently used to support field work survey design, watershed modelling and stream crossing analysis.

Several limitations influence the accuracy and interpretability of the surface water modelling outputs. The 5 m DEM used in this analysis is likely derived from aerial imagery, and its vertical and horizontal accuracy is constrained by the quality of the source data and photogrammetric processing. As a result, fine-scale topographic features—particularly small channels, shallow depressions, and micro-drainage pathways—may not be accurately captured. In addition, the stream-initiation threshold of 3,000 contributing cells was selected based on visual comparison with aerial imagery, providing a reasonable but approximate estimate of where channel heads begin to form. This threshold is inherently sensitive to local terrain characteristics: bogs, barrens, forested areas, and differing surficial or bedrock geology all influence runoff generation and the point at which concentrated flow becomes a defined channel. Consequently, while the modelling approach provides a consistent, landscape-scale representation of drainage patterns, some local variability in channel initiation and flow pathways may not be fully captured.

Modelled watercourses were assigned a numerical ID and classified following methods outlined in Section 4.1.2. These watercourses have not been field verified (unless otherwise stated) and are meant to be used as a tool to support and develop field surveys.

Peters Pond is proposed as the primary water supply for the Industrial Facility. To inform modeling, the results from the desktop review of watershed hydrological features, the potential fish community, public and private drinking water sources, and surface water features were reviewed as they apply to Peters Pond.

4.1.2 Surface Water Classification

Aerial imagery was used to classify and characterize permanent and intermittent watercourses at each crossing location. In addition, all watercourses within 100 m buffers of quarry footprints and 30 m of accommodation camps were classified (note that are not true “crossings” but for the purposes of surface water classification are treated as such). Characterization included estimating the width of the watercourse and identifying the presence of infrastructure (e.g., culverts, bridges, or causeways) (Drawing 2 A-K, Appendix A).

Streams were assigned an initial classification based on the watershed surface area upstream of the crossing point and aerial imagery using methodology approved by DFO. The classifications are as follows:

- Intermittent (N): Upstream drainage from water crossing is <2.6 km^2
- Small (S1): Upstream drainage from water crossing is 2.6 to 50 km^2
- Small (S2): Upstream drainage from water crossing is 50 to 100 km^2
- Small (S3): Upstream drainage from water crossing is 200 to 500 km^2
- Intermediate (I1): Upstream drainage from water crossing is 500 to 1,000 km^2
- Intermediate (I2): Upstream drainage from water crossing is 1,000 to 10, 000 km^2
- Large (L): Upstream drainage from water crossing is >10,000 km^2

The results of this desktop review were used to design field surveys by identifying the proportion of watercourses to be field assessed using the following rationale:

- N: 100 % surveyed by aerial photography. All intermittent streams will likely dry up or become too warm during summer to sustain fish populations or freeze in winter
- S1: 100 % surveyed by aerial photography and 10% selected for ground survey
- S2: 100 % surveyed by aerial photography and 25% selected for ground survey
- S3: 100% surveyed by aerial photography and 50% selected for ground survey
- I1: 100% surveyed by aerial photography and 50% selected for ground survey
- I2: 100% surveyed by aerial photography and 50% selected for ground survey
- L: 100% surveyed by aerial photography and 100% selected for ground survey

At all watercourses selected for ground surveys, 200 m long study reaches (100 m upstream and 100 m downstream) were established at each proposed crossing location.

In addition to watercourse classification, fish habitat at all predicted watercourse crossing and quarry locations was characterized by reviewing aerial imagery prior to the field assessments. This characterization includes descriptions of flow regime, estimated width, dominant substrate, riparian vegetation, and any other relevant features. Watercourses are numbered based on the associated watershed number, then numbered by stream order with highest order streams being numbered first.

4.1.3 Fish Community

A desktop review to identify fish species, including species at risk, that are potentially present within the PA was completed using the following resources and databases:

- Aquatic Species at Risk Map (DFO, 2025b)
- Atlantic Canada Conservation Data Centre (ACCDC) Data Report (ACCDC, 2026)
- Newfoundland and Labrador Department of Forestry, Agriculture, and Lands GEOHub Aquaculture Licenses dataset (NLFAL, 2024)
- Water quality station profile for Peters River (Newfoundland and Labrador, n.d.)
- Scientific reports (e.g., Keefe et al., 2019)
- Consultation with local outfitters

The Aquatic Species at Risk Map is a federal database that shows the distribution of species at risk (SAR) and their associated critical habitat within Canadian waters (DFO, 2025b). A SAR is defined as species that are:

- Species listed under the *Species at Risk Act* (SARA) as “Endangered”, “Threatened”, or “Special Concern” (Canada, 2002).
- Species listed under the Newfoundland and Labrador *Endangered Species Act* (ESA) as “Endangered”, “Threatened” or “Vulnerable” (Newfoundland and Labrador, 2001).

The ACCDC is part of a network of NatureServe data centres and heritage programs that maintain records of rare flora and fauna species and habitat areas of ecological interest that exist within the majority of North and South America. ACCDC records were reviewed to identify records of SAR and species of conservation concern (SOCC). Throughout this baseline report SOCC are defined as follows:

- Species listed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) but not SARA as “Endangered”, “Threatened”, or “Special Concern”
- Species having a subnational (provincial) rank (S-Rank) of “S1”, “S2”, or “S2S3”(ACCDC, 2026).

4.2 Field Surveys Methodology

Field survey methodologies for fish collection, fish habitat characterization, and water quality are described in the following sections

4.2.1 Fish Collection

4.2.1.1 Electrofishing

Electrofishing was conducted at 22 survey locations within and adjacent to the PA between June 17, 2024, and July 8, 2024. There were 15 locations in the BWPA, four locations within the SLWPA, and three locations within the TLWPA (Drawing 3 A-K, Appendix A). Sampling reaches were approximately 100 m, if not restricted by watercourse characteristics, and were selected based on representative habitats with potential to support fish along a section of a watercourse. The goal of these two-pass, open site, electrofishing surveys was to determine fish species presence and to estimate relative abundance within the PA. Fish collection was completed under DFO Fishing License #NL-8233-24.

DFO's Interim Policy for the Use of Backpack Electrofishing Units (DFO, 2003) was reviewed and followed by all members of the electrofishing crew. This document provides a detailed list of standard equipment, safety, training, and emergency response procedure requirements for electrofishing. Each electrofishing crew consisted of two individuals, one of which (the crew lead) was a qualified person as defined under the DFO Interim Electrofishing Policy.

Electrofishing surveys were conducted with a Smith Root LR-20B or LR-24 backpack electrofisher. Surveys consisted of two passes along 100 m transects (50 m downstream from the proposed crossing and ending 50 m upstream) following the methods outlined by Scruton and Gibson (1995). The operator waded upstream to eliminate the effects of turbidity caused by bottom sediment and probed the anode into fish habitat within the site. A second crew member walked behind the operator to net any stunned fish using a D-frame landing net (1/8" mesh).

If fish were captured, they were held in a live well (a 5-gallon plastic bucket that contains ambient stream water). The live well was kept out of the sun and captured fish were checked regularly for signs of stress. In addition, water temperatures were monitored during electrofishing surveys to prevent fishing in water greater than 20°C. Fish were processed between passes, where species and fork length were recorded. Individuals captured during the first pass were kept in the bucket until all individuals in the cohort were sorted, then released downstream from the beginning of the transect prior to commencing the second pass. Duty cycle settings were maintained below 20% (15% ± 3%, median ± SD) and frequency settings ranged between 30 and 45 Hz (35 ± 4%). Frequency was increased between passes if no fish were captured in the first pass.

Details of the electrofishing locations and survey dates are presented in Table 4.2 and Drawing 3 A-K (Appendix A).

Table 4.2: Electrofishing Locations and Details

Watercourse ID	Survey Dates	Coordinates (UTM)		Reach Length (m)*
		Easting	Northing	
BWPA				
13-104	June 17, 2024	621561	5460214	100
3-2028	June 17, 2024	601783	5445447	100
3-1435	June 17, 2024	606993	5448073	50
5-1476	June 18, 2024	610390	5444342	100
5-1623 (Northern Arm River)	**June 18, 2024**	**603064**	**5438214**	**100**
3-1918	June 18, 2024	602959	5449636	100
3-1041	June 18, 2024	602773	5441955	65
33-12	June 21, 2024	620826	5453534	50
3-1525 (New Bay River)	**June 19, 2024**	**602135**	**5443580**	**100**
3-1961	June 21, 2024	602521	5442376	100
13-143	June 22, 2024	619613	5460107	100
24-31	June 22, 2024	616968	5447682	100
3-1918 (New Bay River)	**July 8, 2024**	**601113**	**5447788**	**100**
2-2372	July 8, 2024	607593	5458000	100
3-1630	June 22, 2024	617163	5457784	100
SLWPA				
9-360	June 23, 2024	589114	5468400	100
8-669	July 5, 2024	599361	5462995	100
10-490	July 5, 2024	595355	5464423	50
9-156	June 25, 2024	592455	5466471	100
TLWPA				
9-363	June 23, 2024	588730	5467418	50
9-538	June 25, 2024	591636	5466862	100
9-607	June 25, 2024	591139	5467294	100

Bold text indicates the watercourse is a scheduled salmon river.
Underlined text indicates that the watercourse is no longer at a proposed crossing location.
*WC3-1435, 3-1041, 33-12, 10-490, and 9-363 had reach lengths less than 100 m due to instream barriers.

4.2.1.2 Trapping

When electrofishing was not feasible (i.e., water temperature exceeding 20°C, unsafe wading conditions, or instream barriers as outlined in Section 6 of the fish collection license), fish were collected using passive methods such as trapping. Minnow traps have an effective catch range of body depths approximately 6 to 50 mm. Baited minnow traps were set in pools with sufficient water depths to cover the traps, left overnight, and collected the following day.

For large watercourses (wetted width ≥ 20m) that were unsafe to effectively electrofish, minnow traps were also accompanied by one fyke net. Fyke nets have an effective catch range of body depths 20 mm and larger. These traps are a hoop net that trap fish inside mesh enclosures. The mesh wings guide fish into the fyke net opening, where they pass through a series of tunnels towards the back of the net. Eight minnow traps were deployed in each selected watercourse, unless the water depth was too shallow, at which point traps were

deployed where possible. One fyke net was deployed in larger watercourses to accompany the minnow traps.

Trapping surveys were completed at 29 locations between June 19, 2024, and July 10, 2024, and again in May 2025. Trapping occurred at 14 locations within the BWPA, five locations within the SLWPA, four within the TLWPA, two locations within LTWPA, and four locations within the IPA (Table 4.3; Drawing 3 A-K, Appendix A).

Table 4.3: Summary of Trapping Locations

Watercourse ID	Survey Date	Trap Type (# of Traps) *	Trap Coordinates (UTM, NAD83)		Survey Effort (hours)*
			Easting	Northing	
BWPA					
3-1435	June 20, 2024	MT (4)	607449	5447185	81.2
3-1759	June 20, 2024	MT (2)	607056	5448141	40.0
5-1253	June 20, 2024	MT (6)	607128	5443912	117.0
3-1065	June 19, 2024	MT (8)	601908	5440126	160.0
2-613	June 20, 2024	MT (4)	605149	5454289	80.0
2-648	June 21, 2024	MT (4)	604807	5453818	92.0
3-1679	June 27, 2024	MT (4)	603332	5453088	83.2
3-1041	June 21, 2024	MT (4)	602773	5441955	81.6
5-1623 (Northern Arm River)	**June 26, 2024**	**FN (1), MT (4)**	**603032**	**5438192**	**65.0**
2-2926 (West Arm Brook)	**July 7, 2024**	**FN (1), MT (4)**	**605747**	**5458410**	**115.0**
3-2133 (New Bay River)	**July 7, 2024**	**FN (1), MT (4)**	**607384**	**5449164**	**90.0**
13-104	July 6, 2024	MT (4)	621561	5460214	86.0
13-173	July 6, 2024	MT (1)	620950	5459385	21.7
3-587	July 8, 2024	MT (4)	601135	5449214	76.1
SLWPA					
9-497	June 19, 2024	MT (4)	592675	5465637	94.0
10-177	July 5, 2024	MT (1)	596085	5464525	20.0
10-490	July 5, 2024	MT (6)	595356	5464423	138.0
8-135	July 5, 2024	MT (4)	603143	5461927	74.0
2-2315	July 5, 2024	MT (1)	604692	5461664	17.5
TLWPA					
9-363	June 24, 2024	MT (4)	588730	5467418	89.2
9-482	June 25, 2024	MT (1)	590185	5467803	19.9
9-607	July 10, 2024	MT (1)	604719	5461599	19.3
9-532	July 10, 2024	MT (6)	589420	5468272	135.0
LTWPA					
Rocky Pond	May 14, 2025	MT (5)	612254	5478375	100.0
30-13	May 15, 2025	MT (5)	611942	5481544	90.0
IPA					
4-2174 (Peters River)	**July 7, 2024**	**FN (1)**	**617160**	**5440260**	**19.0**
15-104	May 15, 2025	MT (5)	617705	5445316	100.0

Watercourse ID	Survey Date	Trap Type (# of Traps) *	Trap Coordinates (UTM, NAD83)		Survey Effort (hours)*
			Easting	Northing	
Flowers Pond	May 14, 2025	MT (5)	617241	5441277	115.0
Peters Pond	May 15, 2025	MT (5)	615533	5438693	102.5

Bold text indicates the watercourse is a scheduled salmon river
Underlined text indicates that the watercourse is no longer a proposed crossing location.
* MT = minnow trap FN = Fyke net
*Survey effort was calculated by multiplying trap set time by total number of traps per site.

4.2.2 Fish Habitat Characterization Surveys

4.2.2.1 Watercourse Crossing Assessments

Watercourse and fish and fish habitat assessments focused on watercourses that intersect with proposed access roads, quarries, and transmission lines. Watercourse crossings were selected by prioritizing the five scheduled salmon rivers that intersect the PA and randomly selecting other watercourses via proportional random stratified sampling according to watershed area and accessibility by side-by-side. As discussed in Section 4.1.2, a minimum of 10% of S1 watercourses and 25% of S2 watercourses must be field assessed.

Watercourses were assessed at the crossing (T_0), 100 m upstream (T_1) and 100 m downstream (T_2). Assessments were based on the methods outlined in Sooley et al. (1998) and included characterizations of the following:

- Instream woody debris and vegetation
- Canopy cover
- Watercourse width
- Water depth
- Flow (i.e., pool, riffle, run)
- Velocity
- Gradient
- Substrate composition and embeddedness
- Bank characteristics (proportion of undercut banks, bank stability, and dominant bank vegetation).

In-situ water quality was collected at each assessment location as described in Section 4.2.3.2.

Strum field staff noted and photographed potential fish barriers (natural or anthropogenic) encountered. If a culvert or bridge was already installed at a crossing, general conditions and photos were documented.

4.2.2.2 Detailed Fish Habitat Assessment

In May 2025, Strum completed field verification and detailed surveys of fish habitat that could be directly affected by Project infrastructure within the IPA and SPA. Fish habitat characterization was completed using guidance from Sooley et al., (1998). No fish habitat was identified within the SPA.

To support fish habitat assessments, each watercourse within the Project Footprint (PF) of the IPA, including a 500 m segment downstream of the proposed discharge location, was delineated into individual reaches defined by discrete homogeneous units (e.g., riffle, run, pool, flat, etc.) as determined in the field in an upstream to downstream direction. Each habitat type contains discrete gradient, substrate types, water depth, and velocity ranges which have been determined using the described biological 'preferences' outlined in Grant and Lee (2004), whenever possible. In smaller, first-order streams, habitat types were often found to be extremely short and variable. For efficiency in the field, when individual habitat types were less than 5 m in overall length, they were grouped together into one reach containing multiple smaller habitat units (i.e., "microhabitats"). The upstream and downstream ends of each reach were recorded with a handheld GPS device.

For each reach (i.e., homogenous section of watercourse), a detailed fish habitat survey was completed, which included water quality measurements, riparian habitat descriptions, and barrier assessments. Cross-sectional measurements (transects) were established to describe morphological (i.e., channel and wetted widths, bank heights), flow (i.e., velocities and depths), substrate, and cover characteristics within the reach. Transect measurements were recorded at every 25 m length of reach - for example, if a reach was 100 m in total length, four transects were established within the reach. If multiple microhabitat types (<5 m in length) were grouped together to form a reach, transects were established within each microhabitat type represented within the reach. The number of transects and transect locations were selected and modified as needed in the field based on specific habitat features observed, or limitations related to access, wadeability, and safety concerns.

4.2.3 Water Quality

4.2.3.1 In-Situ Water Quality

Water quality parameters were measured in-situ during watercourse crossing assessments, fish collection surveys, and surface water sampling at the water quality monitoring (WQM) stations by Strum personnel using a calibrated YSI Professional Plus Multi-Probe and a Lamotte turbidity meter between June 18, 2024, and August 29, 2024. Another sampling event at the WQM stations occurred on April 15 and 16, 2025. Additional sampling occurred at the WQM stations in November 2025, however, due to the YSI malfunctioning, in-situ water quality was not collected. In-situ water quality was also collected between May 1 and May 10, 2025, during detailed fish habitat assessments. Parameters recorded include dissolved oxygen (DO; mg/L), water temperature (°C), pH, specific conductivity (SPC; µS/cm), and turbidity (FNU). Results were analysed using the Canadian Council of Ministers of the Environment (CCME) Guidelines for the Protection of Freshwater Aquatic Life (FWALs). WQM stations are shown on Drawing 3 A-K, Appendix A. All other sampling locations correspond with fish collection and crossing assessment locations (Drawing 3 A-K, Appendix A).

5.0 RESULTS

5.1 Desktop Review Results

The following sections outline the results of the desktop review for watershed features, surface water classifications, and fish community.

5.1.1 Watersheds and Water Resources

Table 5.1 presents a summary of local watersheds that intersect each PA and where flow within each local watershed is directed (Drawing 4A-B, Appendix A).

Table 5.1: List of Local Watersheds in the PA

Local Watershed ID	Outfall
TLWPA	
9	Notre Dame Bay, Wild Bight and into Badger Bay
6	Mark's Lake and into Shoal Arm
1	South Twin Lake
SLWPA	
9	Notre Dame Bay, Wild Bight and into Badger Bay
10	Badger Bay Brook, Wild Bight and into Badger Bay
8	Seal Bay Brook and into Seal Bay
2	Lewis Lake and into West Arm
17	Mill Cove
1	South Twin Lake
LTWPA	
2	Lewis Lake and into West Arm
12	Mill Pond and into Mill Cove in Osmonton Arm
16	Glovers Harbour
18	Budgell Harbour
19	Babies Cove
21	Gull Cove
22	Budgell Harbour
26	Pidwell Cove
31	Mill Cove
34	Butler Cove
41	Cumlins Cove
46	Butlers Cove
53	Osmonton Arm
56	Main Channel
57	Glovers Harbour
59	Lady Cove
62	Osmonton Arm
71	Pidwell Cove
73	Butler Cove

Local Watershed ID	Outfall
87	Cumlins Cove
89	Osmonton Arm
90	Gull Cove
97	Wild Bight
101	Wild Bight
102	Butler Cove
104	Butler Cove
108	Butler Cove
109	Osmonton Arm
BWPA	
2	Lewis Lake and into West Arm
3	New Bay Pond and into Point Leamington Harbour
5	Northern Arm Brook and into Northern Arm within the Bay of Exploits
7	Charles Brook to Bay of Exploits
11	Point Leamington Harbour
13	Diver Pond
14	Askell Cove
20	Northern Arm
24	Northern Arm
25	Bay of Exploits
29	Bay of Exploits
33	Bay of Exploits
38	Bay of Exploits
39	Bay of Exploits
42	Bay of Exploits
43	Bay of Exploits
48	Bay of Exploits
51	Bay of Exploits
52	Bay of Exploits
54	Bay of Exploits
55	Bay of Exploits
58	Bay of Exploits
60	Bay of Exploits
61	Bay of Exploits
63	Bay of Exploits
64	Bay of Exploits
66	Northern Arm
67	Bay of Exploits
68	Northern Arm
69	Bay of Exploits
70	Bay of Exploits
72	Bay of Exploits

Local Watershed ID	Outfall
74	Bay of Exploits
75	Bay of Exploits
76	Bay of Exploits
77	Northern Arm
78	Bay of Exploits
79	Bay of Exploits
80	Northern Arm
86	Bay of Exploits
88	Bay of Exploits
91	Bay of Exploits
93	Bay of Exploits
95	Bay of Exploits
98	Northern Arm
99	Bay of Exploits
103	Bay of Exploits
107	Bay of Exploits
IPA	
84	Peters River into Peters Arm
35	Town of Botwood into Peters Arm
32	Coastal, into Peters Arm
4	Peters River and into Peters Arm within the Bay of Exploits
15	Northern Arm within the Bay of Exploits
50	Peters Arm
5	Northern Arm Brook and into Northern Arm within the Bay of Exploits
SPA	
4	Peters River and into Peters Arm within the Bay of Exploits
15	Northern Arm within the Bay of Exploits

The PA intersects 94 local watersheds. Three watersheds intersect the TLWPA, six intersect the SLWPA, 28 intersect LTWPA, 48 intersect the BWPA, 7 intersect the IPA and surrounding area within EVREC's application for Crown Land, and two intersect the SPA.

The protected water supplies closest to the PA are Northern Arm Lake, Little Pond, and Indian Cove Pond, which are located adjacent to the BWPA in the south, north, and east, respectively, and Cook's Pond, which is located north of the LTWPA (NLECCC, 2022) (Drawing 4A, Appendix A). Other protected water supplies within 20 to 90 km of the PA include:

- Indian Cove Pond watershed with an approximate area of 52 km^2, servicing Point of Bay.
- Little Pond watershed with an approximate area of 41 km^2, servicing Point Leamington.
- Northern Arm Lake watershed with an approximate area of 61 km^2, servicing Wooddale, Northern Arm, Petersview, Bishop's Falls, Grand Falls-Windsor, and

Botwood.
- Stanhope Pond watershed with an approximate area of 26 km^2, servicing Lewisporte.
- Mill Lake watershed with an approximate area of 3 km^2, servicing Norris Arm.
- Indian Arm Brook watershed with an approximate area of 306 km^2, servicing Campbellton.
- Southeast Pond watershed with an approximate area of 77 km^2, servicing Loon Bay.
- Gander Lake watershed with an approximate area of 1,680 km^2, servicing Glenwood, Gander, and Appleton.

Based on the review of the CanVec waterbody and watercourse databases (NRCan, 2023b) and the Newfoundland Angler's Guide (DFO, 2025c), the PA overlaps 674 waterbodies. Only 13 of these waterbodies are named: Askel Lake, Lewis Lake, Marks Lake, Southern Lake, Budgell Pond, Daws Pond, Little Pond, Long Pond, Mill Pond, New Bay Pond, Peters Pond, Rocky Pond, and Twin Ponds. The largest lake is New Bay Pond, measuring 16.06 km^2. Within a 5 km buffer of the PA, there are an additional 2,396 waterbodies. The largest waterbody in the buffer is North Twin Lake with a total estimated area of 39.52 km^2. Drawing 2 A-K (Appendix A) shows the distribution of waterbodies in relation to the Project components.

The review also identified 482 watercourses in the PA (Drawing 2 A-K (DFO, 2025c; NRCan, 2023b). Of these watercourses, only eight are named: Peters River, Northern Arm Brook, New Bay River, Muddy Hole Brook, Two Mile Brook, West Arm Brook (also called Western Arm brook), Northwest Arm Brook, Badger Bay Brook, and Shoal Arm Brook. Peters River, which runs southeast of the SPA and IPA, is the longest river with an estimated length of 26.4 km, followed by New Bay River (also called Leamington River). The 5 km buffer around the PA includes an additional 1,482 watercourses, of which eight are named: the Exploits River – the largest watercourse in the PA spanning 246 km – as well as North Twin Brook, Rattling Brook, Charles Brook, Matties Brook, Sops Arm Brook, Seal Bay Brook, and Penny's Brook. All other watercourses in the buffer are unnamed. Table 5.2 summarizes named waterbodies and watercourses within 5 km of the PA.

Peters River, Northern Arm Brook, New Bay River, Northwest Arm Brook, and West Arm Brook are scheduled salmon rivers that fall within the PA (Drawing 4 A-B, Appendix A), whereas the Exploits River, and Charles Brook are scheduled salmon rivers that occur within the 5 km buffer (DFO, 2025a).

Table 5.2: Named Waterbodies & Watercourses within the PA

Name	Waterbody Approximate Area (km^2)	Watercourse Approximate Length (km)
Within the PA		
Peters River	**-**	**26.4**
New Bay River	**-**	**22.2**
Shoal Arm Brook	-	13.2
Northern Arm Brook	**-**	**18.9**
Badger Bay Brook	-	7.48
Two Mile Brook	-	5.01
West Arm Brook	**-**	**29.1**

Name	Waterbody Approximate Area (km²)	Watercourse Approximate Length (km)
Muddy Hole Brook	-	2.9
Northwest Arm Brook	**-**	**16.1**
Peters Pond	1.1	-
Askel Lake	0.6	-
Rocky Pond	<0.0	-
Twin Ponds	0.1	-
Budgell Pond	0.3	-
Long Pond	0.0	-
Lewis Lake	1.7	-
Marks Lake	0.9	-
New Bay Pond	16.1	-
Within 5 km of the PA		
Exploits River	**-**	**246**
Rattling Brook	-	16.2
Charles Brook	**-**	**23.2**
North Twin Brook	-	4.3
Matties Brook	-	0.2
Sops Arm Brook	-	9.8
Seal Bay Brook	-	6.4
Penny's Brook	-	4.2
West Arm Brook	0.1	-
North Twin Brook	0.4	-
Lewis Lake	0.4	-
Babies Cove Pond	<0.0	-
Cleaves Lake	0.1	-
Otter Pond	0.1	-
Big Otter Pond	0.1	-
Southern Lake	1.7	-
Mud Lake	0.1	-
Grassy Pond	0.1	-
Bard Pond	0.3	-
Twin Pond	0.2	-
Big Lake	0.6	-
Mill Pond	0.5	-
Fall Pond	0.2	-
Big Twins Ponds	0.2	-
Fall Pond	0.1	-
Long Pond	0.1	-
Grassy Pond	0.1	-
Side Pond	0.1	-
Matties Pond	<0.0	-
Four Mile Lake	0.7	-
Little Martin Lake	0.1	-
Stowaway Pond	0.1	-
Middle Pond	0.1	-
Burnt Pond	0.1	-
Nanny Bag Lake	0.8	-
Diver Pond	0.4	-

Name	Waterbody Approximate Area (km^2)	Watercourse Approximate Length (km)
Bobbies Pond	<0.0	-
Daws Pond	<0.0	-
Side Pond	0.1	-
Martin Lake	0.5	-
Island Pond	<0.0	-
Askel Pond	0.2	-
Line Pond	0.1	-
Cooks Pond	0.5	-
Mine Pond	0.1	-
Mill Pond	0.9	-
Laceys Pond	<0.0	-
Bog Dam Pond	0.1	-
Sharrons Pond	0.1	-
Little Pond	0.1	-
Shoal Arm Pond	0.2	-
North Twin Lake	39.5	-
South Twin Lake	35.3	-
Goose Pond	0.3	-
Frozen Ocean Lake	8.2	-
Trouble Pond	0.3	-

Bold text indicates a scheduled salmon river.

Peters Pond is located within local watershed 4. The throughflow of Peters Pond is Peters River, which is a scheduled salmon river and used to be the water supply area for the towns of Botwood and Petersview (Newfoundland and Labrador, n.d.). Peters River flows into the Bay of Exploits by the town of Botwood. The closest protected water supply area is Indian Cove Pond, which is located within local watershed 7, approximately 8.5 km north of Peters Pond. Another protected water supply area, Northern Arm Lake, is located partially within the same local watershed as Peters Pond (watershed 4). It is located approximately 12.3 km west of Peters Pond. Peters Pond is not located within a protected watershed (Drawing 4 A, Appendix A). The potential fish community within Peters Pond is described in Section 5.1.4.

5.1.2 Surface Water Classification

The desktop characterization and classification of watercourses within the PA identified 1,337 potential watercourse crossing locations. Fish habitat at all watercourse crossing locations were characterized by reviewing satellite and aerial imagery. This includes estimates of flow regime, width, dominant substrate, riparian vegetation, and any other relevant features when possible and not restricted by visibility (Appendix B).

Within the PA, 1,289 watercourses were classified as N, 41 as S1, and seven as S2 (Drawing 2 A-K, Appendix A).

There are five scheduled salmon rivers that intersect the PA:

- Peters River

- Northern Arm Brook
- New Bay River
- Northwest Arm Brook
- West Arm Brook

Peters River flows through the IPA and into Peters Arm. Northern Arm Brook, New Bay River, and West Arm Brook are located within the BWPA. Northern Arm Brook flows into Northern Arm, New Bay River flows into Point Leamington Harbour, and West Arm Brook flows into West Arm. Northwest Arm Brook flows across the transmission line leading to LTWPA from the BWPA and into Mill Cove. The scheduled salmon rivers all flow northeast (Drawing 4 A-B, Appendix A).

Table 5.3 summarizes the percentage of each stream classification within the entire PA. No S3, I1, I2, or L crossings were identified.

Table 5.3. Summary of Watercourses Assessed

	Location	Total	Intermittent (N)	Small (S1)	Small (S2)
Total # of Watercourse Crossings by Classification	**WPA**	**1,307**	**1,259**	**41**	**7**
	BWPA	809	787	15	7
	TLWPA	283	273	10	0
	SLWPA	140	132	8	0
	LTWPA	75	67	8	0
	SPA	**0**	**0**	**0**	**0**
	IPA	**30**	**30**	**0**	**0**
	Total	**1,337**	**1,289**	**41**	**7**
% Selected for Field Surveys	**WPA**	**3.06**	**2.17**	**24.39**	**28.57**
	BWPA	2.84	2.12	26.67	28.57
	TLWPA	2.83	2.20	20.00	0
	SLWPA	5.71	3.03	50.00	0
	LTWPA	1.33	1.49	0	0
	SPA	**0**	**0**	**0**	**0**
	IPA	**0**	**0**	**0**	**0**
	Total	**2.99**	**2.17**	**24.39**	**28.57**

Wind Project Area

Of the 41 S1 and seven S2 watercourses, approximately 24% and 29% were field assessed, respectively. This achieves the goal of assessing 10% of S1 and 25% of S2 watercourses within the WPA.

Industrial Project Area

Within the IPA, 30 watercourse crossings were identified. All crossings were classified as N. No watercourse crossings were field assessed; however, Peters River, which flows through the IPA was assessed. Detailed fish habitat assessments were completed for watercourses within the PF (Section 5.2.2.2).

Solar Project Area

No watercourse crossings were identified within the SPA.

Within the entire PA, approximately 2% of N, 25% of S1, and 29% of S2 watercourses were assessed, which meets DFO assessment targets. All watercourses that intersect the Industrial Facility or Solar Project footprints have been assessed using detailed fish habitat assessments. Results are described in Section 5.2.2.2.

The watercourses identified through desktop methods are predicted based on desktop analyses and field verification has only been completed on a portion, as required by DFO. The measurements and characteristics described above are also estimated and will require field verification prior to permitting.

5.1.3 Fish Community

A review of the Aquatic Species at Risk Map (DFO, 2025c) determined that the northeastern portion of the PA, along the Exploits River and Notre Dame Bay, contains habitat for seven marine SAR species. The species listed within this area are the fin whale (*Balaenoptera physalus,* Special Concern), blue whale (*Balaenoptera musculus,* Endangered), spotted wolffish (*Anarhichas minor,* Threatened), North Atlantic right whale (*Eubalaena glacialis,* Endangered), leatherback sea turtle (*Dermochelys coriacea,* Endangered), northern wolffish (*Anarhichas denticulatus,* Threatened), and white shark (*Carcharodon carcharias,* Endangered). However, the PA does not overlap with the habitat for these species, as the PA is inland and coastal, whereas the aforementioned species occur offshore. Therefore, marine species fall outside of the scope for this Baseline Aquatic Environment Report and are not discussed further.

A review of the ESA list determined that the PA includes habitat for two inland SAR:

- Banded killifish (*Fundulus diaphanous,* ESA Vulnerable)
- American eel (*Anguilla rostrata,* ESA Vulnerable)

A review of data from a biomonitoring site at Peters River near Botwood indicated that the following species may be found within the associated local watershed 4 (Newfoundland and Labrador, n.d.):

- Atlantic salmon - Northeast Newfoundland population (*Salmo salar,* both sea run and ouananiche - land locked Atlantic salmon)
- Brook trout (*Salvelinus fontinalis*)
- Arctic char (*Salvelinus alpinus*)
- Threespine stickleback (*Gasterosteus aculeatus*)
- Ninespine stickleback (*Pungitius pungitius*)
- Rainbow smelt (*Osmerus mordax*)
- American eel
- Sea lamprey (*Petromyzon marinus*)

The ACCDC database did not identify any fish species considered to be SOCC or SAR within 5 km of the PA (ACCDC, 2026).

Keefe et al. (2019) reported the first records of finescale dace (*Chrosomus neogaeus*) in four ponds within a first-order tributary of Exploits River, which is located within 5 km of the PA.

5.2 Field Results

The following sections outline the results of fish collection and fish habitat characterization surveys within the PA.

5.2.1 Fish Collection

5.2.1.1 Electrofishing

The results of electrofishing surveys are presented in Table 5.4. Relative abundance is expressed as the number of fish captured per 300 seconds of electrofishing effort. Electrofishing survey locations within the PA are presented in Drawing 3 A-K (Appendix A). Representative photos of electrofishing locations are provided in Appendix C.

Table 5.4: Summary of Electrofishing Efforts

Watercourse ID	Local Watershed ID	Survey Date	Fish Species Collected	Catch Per Species	Total Catch (Pass 1/ Pass 2)	Total Effort (seconds) (Pass 1/ Pass 2)	Pass 1 CPUE (fish/300 seconds)	Pass 2 CPUE (fish/300 seconds)
BWPA								
5-937	5	June 17, 2024	---	---	---	224	---	---
3-2028	3	June 17, 2024	Atlantic salmon	9	36 (8/28)	1,296 (530/766)	0.5	1.2
			Brook trout	27				
3-1435	3	June 17, 2024	Atlantic salmon	3	4 (4/0)	646 (350/296)	0.38	---
			Brook trout	1				
5-1476*	5	June 18, 2024	American eel	1	6 (0/6/0)	969 (467/359/143)	0.00	0.56 (0 for pass 3)
			Brook trout	2				
			Unidentified salmonid**	3				
5-1623 (Northern Arm River)	**5**	**June 18, 2024**	**American eel**	**1**	**2 (2/0)**	**1,160 (589/571)**	**0.11**	---
			Atlantic salmon	**1**				
3-1918	3	June 18, 2024	Brook trout	4	55 (37/18)	1,413 (711/702)	1.73	0.85
			Atlantic salmon	51				
3-1041	3	June 18, 2024	Brook trout	8	8 (7/1)	533 (310/223)	0.75	0.15
13-12	13	June 21, 2024	Brook trout	15	15 (9/6)	877 (491/386)	0.61	0.52
3-1525 (New Bay River)	3	June 19, 2024	Brook trout	20	20 (12/8)	1,270 (677/593)	0.59	0.45
3-1961	3	June 21, 2024	Atlantic salmon	5	18 (18/0)	871 (416/455)	1.44	0
			Brook trout	13				
13-143	13	June 22, 2024	Atlantic salmon	1	6 (4/2)	376 (307/346)	0.43	0.19
			Brook trout	5				

Watercourse ID	Local Watershed ID	Survey Date	Fish Species Collected	Catch Per Species	Total Catch (Pass 1/ Pass 2)	Total Effort (seconds) (Pass 1/ Pass 2)	Pass 1 CPUE (fish/300 seconds)	Pass 2 CPUE (fish/300 seconds)
24-31	24	June 22, 2024	Brook trout	21	21 (11/10)	1,464 (909/555)	0.40	0.6
3-1918 (New Bay River)	**3**	**July 8, 2024**	**Atlantic salmon**	**7**	**26 (26)**	**741**	**1.17**	**---**
			Brook trout	**19**				
2-2372	2	July 8, 2024	Atlantic salmon	17	43 (34/9)	1,297 (796/501)	1.42	0.60
			Brook trout	26				
3-1634	3	June 22, 2024	Atlantic salmon	18	40 (25/16)	1,362 (768/594)	1.08	0.90
			Brook trout	23				
SLWPA								
8-669	8	July 5, 2024	American eel	2	6 (4/2)	1,407 (684/723)	0.19	0.09
			Atlantic salmon	3				
			Brook trout	1				
10-490	10	July 5, 2024	Brook trout	4	4 (4)	762	0.17	0
9-538	9	June 25, 2024	Brook trout	23	23 (14/9)	1,555 (815/740)	0.57	0.41
9-156	9	June 25, 2024	Brook trout	10	10 (5/5)	1,211 (514/697)	0.32	0.24
TLWPA								
9-360	9	June 23, 2024	---	---	---	703 (420/283)	---	---
9-363	9	June 23, 2024	---	---	---	415 (238/177)	---	---
9-607	9	June 25, 2024	Brook trout	4	4 (0/4)	1,501 (793/708)	---	0.18
Total Number of Fish Captured								**348**

* WC5-1476 had three passes completed.
** Three salmonids were captured, however, the bucket tipped over and the fish escaped prior to identification. They were likely brook trout or Atlantic salmon.
Bold text indicates the watercourse is a scheduled salmon river.
Underlined text indicates that the watercourse is no longer located at a proposed crossing location.
N/A indicates that no fish were captured.

As a result of electrofishing surveys completed in June and July 2024 within the PA, three species and 348 individual fish were captured across 19 of the 22 survey locations. American eel were the least abundant and accounted for 1% (4) of the total catch. Brook trout were the most abundant, comprising approximately 65% (225) of the total catch and Atlantic salmon accounted for 33% (116) of the total catch. There were three salmonids captured within WC5-1476 that escaped prior to identification. Due to several fish escaping, a third pass was completed in WC5-1476. WC3-1918 had the highest CPUE of 1.73 fish/300 seconds during Pass 1.

Electrofishing results are shown on Drawing 3 A-K (Appendix A).

5.2.1.2 Trapping

The results of trapping surveys are presented in Table 5.5. Relative abundance is expressed as CPUE (number of fish captured per hour of trapping effort). Trapping survey locations within the PA are presented in Drawing 3 A-K (Appendix A). Representative photos of trapping locations are shown in Appendix C.

Table: 5.5: Summary of Trapping Efforts

Watercourse ID	Local Watershed ID	Survey Date	Fish Species Collected	Total Catch				CPUE (per trap type)	Species	CPUE (per species)
				Total Catch (per species)	% Catch	Total Catch (per trap type)	Total Effort Per Trap Type (hours)*			
BWPA										
3-1435	3	June 20, 2024	---	---	---	MT (4) – 0	MT - 81.2	---	---	---
3-1759	3	June 20, 2024	---	---	---	MT (2) – 0	MT – 40.0	---	---	---
5-1253	3	June 20, 2024	---	---	---	MT (6) – 0	MT – 117.0	---	---	---
3-1065	3	June 19, 2024	Brook trout	1	100	MT (8) – 1	MT – 160.0	0.01	Brook trout	0.01
2-613	2	June 20, 2024	---	---	---	MT (4) – 0	MT – 80.0	---	---	---
2-648	2	June 21, 2024	---	---	---	MT (4) – 0	MT – 92.0	---	---	---
3-1679	3	June 27, 2024	Brook trout	3	100	MT (4) – 3	MT - 83.2	0.04	Brook trout	0.04
3-1041	3	June 21, 2024	Brook trout	1	100	MT (4) – 1	MT - 81.6	0.01	Brook trout	0.01
5-1623 (Northern Arm River)	**5**	**June 26, 2024**	**Atlantic salmon**	**13**	**100**	**FN (1) - 3 MT (4) - 10**	**FN – 13.0 MT – 52.0**	**FN - 0.23 MT – 0.19**	**Atlantic salmon**	**0.20**
2-2926 (West Arm Brook)	**2**	**July 7, 2024**	**American eel**	**21**	**47**	**FN (1) – 10 MT (4) – 105**	**FN – 23.0 MT – 92.0**	**FN - 0.43 MT - 1.14**	**American eel**	**0.18**
			Atlantic salmon	**24**	**53**				**Atlantic salmon**	**0.21**
3-2133 (New Bay River)	**3**	**July 7, 2024**	**American eel**	**7**	**19**	**FN (1) – 21 MT (4) - 16**	**FN – 18.0 MT – 72.0**	**FN – 1.17 MT – 0.22**	**American eel**	**0.39**
			Atlantic	**30**	**81**				**Atlantic**	**1.67**

Watercourse ID	Local Watershed ID	Survey Date	Fish Species Collected	Total Catch				CPUE (per trap type)	Species	CPUE (per species)
				Total Catch (per species)	% Catch	Total Catch (per trap type)	Total Effort Per Trap Type (hours)*			
			salmon						**salmon**	
13-104	13	July 6, 2024	Brook trout	3	100	MT (4) – 3	MT – 86.0	0.03	Brook trout	0.03
13-173	13	July 6, 2024	---	---	---	MT (1) – 0	MT - 21.7	---	---	---
3-587	3	July 8, 2024	---	---	---	MT (4) – 0	MT - 76.12	---	---	---
SLWPA										
9-497	9	June 19, 2024	Brook trout	1	100	MT (4) – 1	MT – 94.0	0.01	Brook trout	0.01
10-177	10	July 5, 2024	---	---	---	MT (1) – 0	MT – 20.0	---	---	---
10-490	10	July 5, 2024	Brook trout	1	100	MT (6) – 1	MT – 138.0	0.01	Brook trout	0.01
8-135	8	July 5, 2024	---	---	---	MT (4) – 0	MT – 74.0	---	---	---
2-2315	2	July 5, 2024	---	---	---	MT (1) – 0	MT - 17.5	---	---	---
TLWPA										
9-363	9	June 24, 2024	---	---	---	MT (4) – 0	MT - 89.2	---	---	---
9-482	9	June 25, 2024	Brook trout	7	100	MT (1) – 7	MT - 19.9	0.35	Brook trout	0.35
9-607	9	July 10, 2024	---	---	---	MT(1) - 0	MT -19.25	---	---	---
9-532	9	July 10, 2024	Brook trout	1	100	MT (6) - 1	MT – 135.0	0.01	Brook trout	0.01
LTWPA										
Rocky Pond	18	May 14, 2025	---	---	---	MT (5) - 0	MT – 20.0	---	---	---
30-13	30	May 15, 2025	Brook trout	2	100	MT (5) - 2	MT – 18.0	0.11	Brook trout	0.11
IPA										
4-2174 (Peters River)	**4**	**July 7, 2024**	**American eel**	**5**	**29**	**FN (1) – 17**	**FN – 19.0**	**FN – 0.89**	**American eel**	**0.26**
			Atlantic salmon	**12**	**71**				**Atlantic salmon**	**0.63**
15-104	15	May 15, 2025	Atlantic	3	13.04	MT (5) - 23	MT – 20.0	MT –	Atlantic	0.15

Watercourse ID	Local Watershed ID	Survey Date	Fish Species Collected	Total Catch				CPUE (per trap type)	Species	CPUE (per species)
				Total Catch (per species)	% Catch	Total Catch (per trap type)	Total Effort Per Trap Type (hours)*			
			salmon					1.15	salmon	
			Brook trout	1	4.35				Brook trout	0.05
			Threespine stickleback	19	82.61				Threespine stickleback	0.95
Flowers Pond	4	May 14, 2025	Threespine stickleback	31	100	MT (5) - 31	MT – 23.0	1.35	Threespine stickleback	1.35
Peters Pond	4	May 15, 2025	Threespine stickleback	33	100	MT (5) - 33	MT – 20.5	1.61	Threespine stickleback	1.61
Total number of fish captured:										**219**

Bold text indicates the watercourse is a scheduled salmon river.
Underlined text indicates the watercourse is no longer at a proposed crossing location.
MT = minnow trap, FN = fyke net.
*Survey Effort was calculated by adding up the length of time each individual trap was set.
NA indicates no fish were captured.

As a result of trapping surveys completed in June and July 2024 and May 2025 within the PA, four species and 219 individual fish were captured across 12 of the 29 survey locations. American eel accounted for 15% (33) of the total catch. Brook trout were the least abundant, comprising approximately 10% (21) of the total catch. Atlantic salmon accounted for 37% (81) of the total catch. Threespine stickleback were the most abundant, accounting for 38% (83) of the total catch. The location with the highest CPUE per trap type was 1.61 in a minnow trap at Peters Pond. Trapping results are shown on Drawing 3 A-K (Appendix A).

5.2.1.3 Fish Species Observed

Table 5.6 presents a summary of fish species captured within the PA through electrofishing and trapping surveys, listed in order of abundance.

Table 5.6: Fish Species Captured within the PA

Species	SARA/COSEWIC/NL *ESA*	Total Catch	
		Total #	% Catch
Brook trout (*Salvelinus fontinalis*)	---	294	51.85
Atlantic salmon (*Salmo salar*)*	---	150	26.46
Threespine stickleback (*Gasterosteus aculeatus*)	---	83	14.64
American eel (*Anguilla rostrata*)	COSEWIC; Threatened; NL ESA: Vulnerable	37	6.53
Total		**567**	

*Northeast Newfoundland population.

Fish collection surveys resulted in the capture of 567 individual fish across 48 locations. Brook trout was the most captured, accounting for approximately 52% (294) of the total catch. Atlantic salmon, threespine stickleback, and American eel comprised approximately 26% (150), 14% (83) and 7% (37) of the total catch. There were three unidentified salmonids that escaped after capture prior to identification, accounting for approximately 1% of the total catch. Representative photos of fish species captured within the PA are provided in Appendix C.

Life stage and freshwater habitat descriptions for all species captured within the PA as a result of fishing efforts are provided in the following paragraphs and summarized in Table 5.7.

American Eel

Suitable habitat for eel is varied. As a catadromous species, eel spend the majority of their lives in freshwater, moving to the Sargasso Sea to spawn. Once hatched, American eel larvae drift back to the coast, undergoing several phases of metamorphosis (Scott & Crossman, 1973). By the time they reach freshwater, young glass eel have developed pigment and are now referred to as elvers (Scott & Crossman, 1973). In freshwater, elvers develop into yellow eel, which are growing immature adults. At that point sexual differentiation occurs. As growth proceeds, yellow eel metamorphose into silver eel, or mature adults that are now physiologically prepared to return to the sea to spawn (COSEWIC, 2012).

American eel are frequently found in watercourses that offer structural complexity and shade in the form of coarse woody debris, rocks, in-stream vegetation for daytime cover, and an available food source of forage fish, invertebrates, molluscs, and vegetation (COSEWIC, 2012). Migrating elvers are bottom dwellers and spend most of their time burrowed or hidden, including directly into soft bottom sediments (COSEWIC, 2012). In freshwater, yellow eel continue their migration upstream into rivers, streams, and muddy or silt bottomed lakes (Scott & Crossman, 1973). Like elvers, yellow eel are primarily nocturnal, spending most of the day under cover or buried in soft substrates, which are particularly important for overwintering, where the eel hibernate by burying themselves into the bottoms of lakes and rivers (Scott & Crossman, 1973; Smith & Saunders, 1955). Trautman (1981) also reported that eel partially or completely bury themselves in mud, sand, and gravel during the day, emerging at dusk to begin feeding.

American eel were captured within the BWPA, SLWPA, and adjacent to the IPA. American eel are listed as vulnerable under the ESA and designated threatened by COSEWIC (COSEWIC, 2012; Wildlife Division, 2010). In December 2025, the federal government made the decision to not add American eel to the List of Wildlife Species at Risk set out in Schedule 1 of SARA (Canada, 2025).

Atlantic Salmon

The range of Northeast Newfoundland Atlantic salmon includes rivers along the northeast coast of Newfoundland, which includes the northern tip of the island to the southeastern corner of the Avalon Peninsula (COSEWIC, 2010).

Atlantic salmon in Newfoundland typically spawn in freshwater from October to November and spend three to four years as juveniles in freshwater. After three to four years in freshwater, juveniles undergo smoltification and then migrate to sea (DFO, 2023). After one year at sea, the majority of adult salmon reach maturity and return to their natal stream to spawn for the first time. In spring, the salmon leave the rivers and by mid-summer migrate to the Atlantic Ocean (COSEWIC, 2010).

Within the freshwater environment, the Atlantic salmon is found in cool, clear, well-oxygenated waters that support a reliable food source of aquatic invertebrates. Gravel and cobble is the preferred substrate for spawning (COSEWIC, 2010). Redd sites are typically located in well aerated areas - a riffle above a pool, or at the tail of pools on the upstream edge of riffles with depths of 10 to 70 cm (Grant & Lee, 2004). Young of the year (YOY) will remain near the redd until they reach a certain length, at which point they disperse downstream, occupying areas of faster velocities as they increase in size (Grant & Lee, 2004). Juveniles can be found occupying a variety of habitats. In summer and fall, they are typically found in moderate velocity runs with clean, rocky substrate free of sand, silt, and detritus (Rimmer et al., 1983). Older parr are usually found in riffles, whereas deeper pools are the preferred habitat during low water levels, high temperatures, and winter freeze (Grant & Lee, 2004).

There are five scheduled salmon rivers that intersect with the PA (Peters River, Northern Arm River, New Bay River, Northwest Arm Brook, and Western Arm Brook). In Newfoundland and

Labrador, retention of Atlantic salmon is only permitted on scheduled rivers. Scheduled salmon rivers are explicitly named and listed in the Newfoundland and Labrador Fishery Regulations (Newfoundland and Labrador, 2018a).

Atlantic salmon were captured within the BWPA, SLWPA, and the IPA.

Brook Trout

Brook trout are known to inhabit a wide range of cool, freshwater environments, from small headwater streams to large lakes. Water temperature is a critical factor influencing brook trout distribution and production (Raleigh, 1982). Though typically not anadromous, brook trout require free passage along streams to move between areas of use, including spawning grounds, overwintering areas, and summer rearing areas (Raleigh, 1982).

Mature brook trout spawn in the fall. Optimal spawning conditions for brook trout include clear substrate 3 to 8 mm in size in shallow water with limited fines (<5%), and velocities of 25 to 75 cm/s (Raleigh, 1982).

YOY brook trout require cold water, stable flow, low velocities, and an abundance of in-stream cover. Optimal temperature for juvenile growth is 11 to 14℃, while cover in the form of rubble, vegetation, undercut banks, and woody debris should account for a minimum of 15% of total stream area (Raleigh, 1982). In winter, brook trout aggregate in pools beneath silt-free rocky substrate and close to point sources of groundwater discharge (Cunjak & Power, 1986; Raleigh, 1982). Adult fish use both pools and riffles, with more than 25% in-stream cover being optimal (Raleigh, 1982). Brook trout respond negatively to flashy or hydrologically dynamic systems and require stable flow for all life stages (Raleigh, 1982).

Brook trout were captured through the PA, except for the SPA (no fish capture completed).

Threespine Stickleback

Threespine stickleback are a marine and brackish tolerant species, that prefer shallow freshwaters and are widely distributed throughout the Northern hemisphere (Scott & Crossman, 1973). Threespine stickleback frequently inhabits waters with a depth between 0.1 to 1.0 m over mud, clay, muck, sand, and gravel substrates with emergent and submergent vegetation to construct their nests within (Grant & Lee, 2004).

Threespine stickleback were captured in the IPA.

5.2.2 Fish Habitat Characterization Surveys

5.2.2.1 Watercourse Crossing Assessments

Fish habitat characterization surveys were completed at 64 watercourses within the PA. An additional six locations were visited; however, those locations were either field-identified as a wetland, ephemeral drainage, or no watercourse existed.

Due to adjustments to the road layout following the completion of watercourse crossing assessments, some watercourses surveyed are no longer crossed. Of the 64 watercourses surveyed, 40 are current watercourse crossing locations. Fish habitat characteristics for each watercourse that was assessed are summarized in Table 5.8. Detailed results and representative photos are provided in Appendix C and D. Life cycle and habitat characteristics of fish species documented within the PA are presented in Table 5.7.

Table 5.7: Life Cycle and Habitat Characteristics of Fish Species Documented within the PA

Common Name	Scientific Name	Status	Kanno & Beazley, 2004		Life Cycle			Stage	Habitat Description	Depth (m)	Velocity (m/s)	Substrate	Cover	Optimal Growth Temp (°C)*
			Disturbance tolerance	Temperature regime	Age of Maturity	Life Span	Spawning Period							
American eel	*Anguilla rostrata*	ESA -Vulnerable	Tolerant	Warmwater	17.1-21.9 (female); 5-10 (males)	Die after spawning (5 to 50 years)	N/A	Juvenile/ Adult	Lentic and lotic waters up to 10 m deep. In rivers, slow-fast water habitats including runs/riffles/flats/pools/eddies. Variable but unlikely to utilize certain fast-water habitats (rapids, falls).	-	-	Soft substrates	AP/IN	25
Atlantic salmon	*Salmo salar*	---	Intolerant	Coldwater	3 to 4 years	4 to 8 years	Mid-October to early November	Spawning	Slow to fast water. Riffle, tail of pool.	0.1-0.7	0.15-0.9	G/C	Unknown	16 -17
								YOY	Slow to fast water. Riffle, rapids, flats, pools.	0.1-1.0	0.06-0.7	G/C/R	AP/IN	
								Juvenile	Slow to fast water. Runs, pools, riffles, flats.	<0.6	0.05-1.0	G/C/R/B	AP/IN	
								Adult	Slow to fast water. Pools, eddies.	>0.9	0.05-0.6	B	Unknown	
Brook trout	*Salvelinus fontinalis*	---	Intolerant	Coldwater	3 years (average) range of 1-4 years	5 years	October-November	Spawning, Incubation, Emergence	Fast - slow riverine habitats (eddies, pools, flats, runs, riffles, rapids). Optimal spawning among loose gravel in streams or shoals of lakes. Groundwater upwelling is an important determinant for brook trout spawning.	0.1-0.3	0.01-0.9	Si/Sa/Gr (Note - preferred substrates, also documented over M/C)	IN/O	14.2
								YOY	Moderate - slow riverine habitats (eddies, pools, flats, riffles).	0.1-0.7	0.02-0.4	C/R/B (Note - preferred substrates, also documented over M/Si/G)	AP/IN	
								Juvenile	Fast - slow riverine habitats (eddies, pools, flats, runs, riffles, rapids).	0.2->2.0	0.01-1.5	Si/S/G/C/R/B	AP/IN/O	
								Adult	Moderate-slow riverine habitats (eddies, pools, flats, riffles, runs).	0.06-1.1	0.01-0.5	All substrates	AP/IN/O	
Threespine stickleback	*Gasterosteus aculeatus*	---	Intermediate	Coolwater	1-2 years	5 years (8 years max in a lab)	April - July	Spawning	Eggs deposited in shallow water in a nest of sand and plant materials.	0.1-0.6	0.03-0.2	Cl/M/S/Gr/Bo	AP	15-25
								YOY	Marine, brackish and fresh waters. Tend to live in quiet weedy pools and lakes.	0.1-0.6	0.03-0.2	Cl/S	AP	
								Juvenile/ Adult	Marine, brackish and fresh waters. Tend to live in quiet weedy pools and lakes.	0.1-1.0	0.1-1.0	Cl/M/S/Gr	AP	

*Optimal Growth Temperature from (Hasnain, 2012).
Substrate types: Cl = Clay (Mud), M = Muck (Detritus), Si = Silt, S = Sand, G = Gravel, C = Cobble, R = Rubble, B = Boulder, Be = Bedrock
Cover Types: AP = aquatic plants (submergent and/or emergent); IN = instream objects/in situ cover within the streambed in the form of fallen trees, submerged logs, rocks, boulders, undercut banks, and accumulated debris; O = overhead cover from riparian vegetation overhanging the stream
Information collected from the following sources: (Brown et al., 2011; COSEWIC, 2010, 2012; Grant & Lee, 2004; Hasnain, 2012; Kanno & Beazley, 2004; Raleigh, 1982; Scott & Crossman, 1973).

Table 5.8: Summary of Watercourse Crossing Characteristics

Watercourse ID	Local Watershed ID	Flow Type[1]	Watercourse Characteristics								Fish Support[4]					
			Channel Width (m)	Wetted Width (m)	Dominant Habitat Type	Other Habitats Present	Gradient (degrees)[2]	Average Velocity (m/s)	Average Depth (m)	Dominant Substrate	Confirmed Species*	Probable Species[3]	Spawning	YOY	Juvenile	Adult
IPA																
4-2174 (Peters River)	**4**	**P**	**19.75**	**19.75**	**Run**	**Pool, Riffle**	**1.67**	**1.24**	**0.5**	**Cobble**	**EEL, ATS**	**BKT**	**ATS, BKT**	**ATS**	**EEL, BKT, ATS**	**EEL**
SLWPA																
10-321	10	P	2.1	2.15	Pool	—	1.33	0.12	0.89	Fines	N/A	BKT, EEL	—	BKT	BKT, EEL	BKT, EEL
9-497	9	P	3.06	3.06	Riffle	Pool, Run, Rapids	7.5	0.48	0.12	Boulder	BKT	ATS	—	ATS	ATS	BKT
10-490	10	P	6.9	4.57	Riffle	Pool, Run	3	0.33	0.17	Boulder	BKT	ATS	ATS, BKT	BKT ATS	ATS	BKT
10-177	10	P	3.5	3	Flat	Pool	1	0	0.14	Organic	None	BKT, EEL	—	—	EEL	EEL BKT
8-135	8	P	3.2	3.2	Pool	—	0	0	0.31	Organic / Fines	None	EEL, BKT	—		EEL BKT	EEL BKT
8-669	8	P	16.05	13.3	Run	Riffle, Pool, Rapids	4.67	0.16	0.28	Bedrock	ATS, BKT, EEL	—	ATS, BKT	BKT ATS	ATS EEL BKT	EEL BKT
9-538	9	P	5.1	4.9	Run	Pool, Riffle	3.00	0.44	0.27	Boulder	BKT	EEL, ATS	ATS, BKT	ATS, BKT	EEL, ATS, BKT	EEL, BKT
9-156	9	P	4.23	3.33	Run	Pool, Riffle	5.67	0.32	0.16	Boulder	BKT	EEL, ATS	ATS, BKT	ATS, BKT	BKT, ATS, EEL	BKT, EEL
2-2315	2	P	3.88	3.63	Run	Riffle, Pool	1.5	0.16	0.21	Boulder	None	ATS, BKT	ATS, BKT	BKT ATS	ATS BKT	BKT
TLWPA																
1-16832	1	P	0.8	0.44	Run	Riffle	1	0.06	0.12	Boulder	N/A	ATS, BKT, EEL	—	BKT ATS	ATS EEL	EEL, BKT
1-779	1	P	1.06	1.17	Pool	Riffle, Run	5	0.1	0.09	Gravel	None	ATS, BKT, EEL	—	—	ATS EEL	EEL BKT
9-360	9	P	2.68	1.65	Pool	Riffle, Run	6.33	0.15	0.17	Boulder	None	ATS, BKT	—	BKT ATS	ATS	BKT
9-482	9	P	3.05	2.69	Rapids	Run, Pool	20	0.38	0.2	Bedrock	BKT	ATS	—	BKT ATS	ATS BKT	BKT
1-16816	1	P	1.12	1.12	Flat	—	1	0.05	0.13	Organic / Fines	None	EEL, BKT	—	BKT	EEL	EEL, BKT
9-532	9	P	8.57	5.17	Riffle	Pool, Run, Cascade	4.5	0.31	0.21	Boulder	BKT	ATS	ATS, BKT	BKT ATS	ATS BKT	BKT
6-901	6	P	6.63	6.53	Riffle-Run	Pool	3.33	0.51	0.26	Boulder	None	ATS, BKT	ATS, BKT	ATS	ATS BKT	BKT
9-363	9	P	1.48	0.92	Flat	Riffle, Pool, Run	1.67	0.08	0.51	Bedrock	None	ATS, BKT, EEL	—	BKT ATS	ATS EEL BKT	EEL BKT
9-607	9	P	10.56	9.67	Run	Riffle, Pool	1.67	0.22	0.24	Cobble	BKT	EEL, ATS	ATS, BKT	BKT ATS	ATS EEL BKT	EEL, BKT

Watercourse ID	Local Watershed ID	Flow Type[1]	Watercourse Characteristics								Fish Support[4]					
			Channel Width (m)	Wetted Width (m)	Dominant Habitat Type	Other Habitats Present	Gradient (degrees)[2]	Average Velocity (m/s)	Average Depth (m)	Dominant Substrate	Confirmed Species*	Probable Species[3]	Spawning	YOY	Juvenile	Adult
9-394	9	P	0.74	0.74	Flat	Riffle, Pool, Run	2.5	0.01	0.09	Boulder	None	EEL, BKT	—	—	ATS EEL	EEL, BKT
BWPA																
3-1961	3	P	1.17	1.73	Run	Pool, Riffle	3.67	0.11	0.18	Cobble	ATS, BKT	EEL	ATS, BKT	ATS BKT	EEL, ATS	EEL, BKT
3-1525	3	P	4.93	3.12	Riffle	Pool, Run	1.00	0.32	0.25	Cobble	BKT	EEL, ATS	ATS, BKT	BKT ATS	EEL BKT ATS	EEL, BKT
5-937	5	P	0.95	0.89	Riffle	Pool, Run, Cascade	5.00	0.13	0.2	Organic	None	ATS, BKT, EEL	—	BKT ATS	ATS EEL BKT	EEL, BKT
3-1041	3	P	2.53	2.4	Run	Riffle, Pool	0.75	0.33	0.3	Boulder	BKT	EEL, BKT	ATS, BKT	BKT ATS	ATS EEL BKT	EEL, BKT
3-1065	3	P	3.18	2.23	Run	—	1.00	0.08	0.86	Organic	None	ATS, BKT, EEL	ATS, BKT	ATS	EEL BKT	EEL, BKT
24-31	24	P	2.37	2.07	Run	Riffle, Pool	2.67	1.53	0.17	Cobble	BKT	EEL	—	—	EEL BKT	EEL
2-613	2	P	2.75	3.28	Run	Riffle, Pool	0.50	0.05	0.2	Organic	BKT	ATS, BKT, EEL	ATS, BKT	BKT	EEL BKT ATS	EEL, BKT
3-1617	3	P	3.03	2.64	Run	Riffle, Pool	6.00	0.25	0.2	Cobble	N/A	ATS, BKT, EEL	ATS, BKT	BKT ATS	ATS EEL BKT	EEL, BKT
3-2133 (New Bay River)	**3**	P	**22.75**	**20.95**	**Run**	**Riffle, Pool**	**1.50**	**0.6**	**0.34**	**Boulder**	**EEL, ATS**	**BKT**	**ATS, BKT**	**BKT ATS**	**ATS EEL BKT**	**EEL, BKT**
5-1623 (Northern Arm River)	**5**	P	**19.8**	**19.63**	**Run**	**Riffle, Pool**	**2.33**	**0.81**	**0.33**	**Cobble**	**EEL, ATS**	**BKT**	**ATS, BKT**	**—**	ATS EEL BKT	EEL
3-1759	3	P	2.43	2.37	Run	Riffle, Pool, Rapids	2.33	0.26	0.3	Gravel	None	ATS, BKT, EEL	ATS, BKT	BKT ATS	ATS EEL BKT	EEL BKT
3-1435	3	P	0.93	0.9	Flat	Riffle, Pool, Run	1.00	0	0.17	Organic	ATS, BKT	EEL	—	BKT	ATS EEL	EEL BKT
2-613	2	P	1	1	Riffle	Run, Pool	6.00	0.25	0.08	Cobble / Boulder	None	ATS, BKT, EEL	—	BKT	EEL ATS	EEL BKT
3-2028	3	P	14	13.8	Riffle/Run	Pool	1.00	0.56	0.27	Cobble	ATS, BKT	—	ATS, BKT	ATS	ATS BKT	BKT
3-587	3	P	2.32	2.08	Flat	Riffle, Run, Pool	2.00	0.2	0.34	Sand	None	ATS, BKT, EEL	ATS, BKT	BKT ATS	ATS EEL BKT	EEL BKT
3-1918 (New Bay River)	**3**	**P**	**5.2**	**5.1**	**Riffle**	**Run, Pool**	**4.67**	**0.52**	**0.19**	**Boulder**	**ATS, BKT**	**—**	**ATS, BKT**	**ATS**	**ATS BKT**	**BKT**
3-332	3	P	NA	NA	Pool	—	NA	0	0.22	Organic	N/A	EEL, BKT	—		EEL BKT	EEL BKT
3-1298	3	P	6	6	Pool	—	0	0	0.12	Fines	None	EEL, BKT	BKT		EEL	EEL BKT
2-648	2	P	2.6	2.6	Run	Riffle, Pool	1.33	0.04	0.13	Organic	None	ATS, BKT, EEL	—	BKT ATS	ATS EEL	EEL BKT

Watercourse ID	Local Watershed ID	Flow Type[1]	Watercourse Characteristics								Fish Support[4]					
			Channel Width (m)	Wetted Width (m)	Dominant Habitat Type	Other Habitats Present	Gradient (degrees)[2]	Average Velocity (m/s)	Average Depth (m)	Dominant Substrate	Confirmed Species*	Probable Species[3]	Spawning	YOY	Juvenile	Adult
2-2926 (West Arm Brook)	**2**	P	**25**	**24.5**	**Riffle**	**Run, Pool**	**2.00**	**0.59**	**0.51**	**Boulder**	**EEL, ATS**	**BKT**	**ATS, BKT**	**ATS**	**ATS EEL BKT**	**EEL**
2-613	2	P	1.28	1.2	Run	Riffle, Pool	6.53	0.3	0.17	Fines	None	ATS, BKT, EEL	—	ATS BKT	ATS EEL	EEL BKT
2-708	2	P	1.5	0	Flat	—	3.00	0	0.2	Cobble	N/A	ATS, BKT, EEL	—		ATS EEL BKT	EEL BKT
5-1253	5	P	1.17	1.02	Flat	Riffle, Run, Pool	0.50	0.03	0.25	Organic	None	EEL, ATS, BKT	ATS, BKT	BKT	ATS EEL BKT	EEL BKT
3-694	3	P	1	1	Flat	–	2.00	0.03	0.39	Organic / Fines	N/A	EEL, BKT	—	BKT	EEL BKT	EEL BKT
5-1476	5	P	5.13	4.9	Flat	Riffle, Run, Pool	6.67	0.58	0.29	Boulder	EEL, BKT	ATS	—	ATS	ATS EEL BKT	EEL
3-1666	3	P	1.6	1.6	Pool	Riffle, Run, Flat	2.67	0.06	0.14	Cobble	None	EEL, BKT, ATS	ATS, BKT	ATS BKT	ATS EEL	EEL BKT
3-1343	3	P	NA	NA	Flat	—	NA	0	0.14	Organic	N/A	EEL, BKT	—		EEL	EEL BKT
5-1623 (Northern Arm River)	**5**	P	**24.33**	**23.5**	**Run**	**Riffle, Pool**	**3.00**	**0.66**	**0.49**	**Cobble**	**N/A**	**ATS, EEL, BKT**	**ATS, BKT**	**ATS**	**ATS EEL BKT**	**EEL**
3-1634	3	P	1.95	1.8	Riffle	Run, Pool	4.00	0.46	0.17	Cobble	ATS, BKT	EEL	ATS, BKT	ATS	ATS EEL	EEL BKT
13-143	13	P	2.9	2.53	Run	Riffle, Pool	2.67	0.1	0.22	Cobble	ATS, BKT	EEL	ATS, BKT	ATS BKT	ATS EEL BKT	EEL BKT
13-12	33	P	3.05	2.42	Riffle	Run, Pool	3.00	0.11	0.23	Fines	BKT	ATS, EEL	—	ATS BKT	ATS EEL BKT	EEL BKT
7-448	7	P	0.68	0.68	Flat	—	2.00	0	0.14	Organic / Fines	None	EEL, BKT	—		EEL	EEL BKT
13-173	13	P	2.4	2.4	Run	Riffle, Pool	2.67	0.15	0.12	Cobble	None	ATS, BKT, EEL	ATS, BKT	BKT ATS	ATS EEL	EEL BKT
2-569	2	P	7.43	4.9	Run	Riffle, Pool	2.00	0.28	0.18	Gravel	N/A	ATS, BKT	ATS, BKT	ATS BKT	ATS	BKT
3-1918	3	P	6.5	6.5	Riffle	Run, Pool	1.50	0.33	0.25	Boulder	ATS, BKT	—	ATS, BKT	ATS BKT	ATS BKT	BKT
2-2372	2	P	3.87	3.37	Run	Riffle, Pool	1.67	0.08	0.24	Gravel	ATS, BKT	EEL	ATS, BKT	ATS BKT	ATS EEL BKT	EEL BKT
LTWPA																
19-69	19	P	3.7	2.25	Run	Riffle, Pool	2.00	0.08	0.17	Cobble / Gravel	N/A	ATS, BKT, EEL	ATS, BKT	BKT ATS	ATS EEL	EEL BKT
21-53	21	P	2.97	1.4	Run	Riffle, Pool, Flat	1.33	0.1	0.16	Organic	N/A	ATS, BKT, EEL	ATS, BKT	ATS BKT	ATS EEL	EEL BKT

Watercourse ID	Local Watershed ID	Flow Type[1]	Watercourse Characteristics								Fish Support[4]					
			Channel Width (m)	Wetted Width (m)	Dominant Habitat Type	Other Habitats Present	Gradient (degrees)[2]	Average Velocity (m/s)	Average Depth (m)	Dominant Substrate	Confirmed Species*	Probable Species[3]	Spawning	YOY	Juvenile	Adult
16-10	16	P	0.32	0.25	Flat	Run, Riffle	1.00	0.1	0.07	Organic / Fines	N/A	EEL, ATS, BKT	—	BKT	ATS EEL	EEL BKT
18-64	18	P	2.02	1.33	Cascade	Riffle, Run, Pool	6.00	0.29	0.07	Bedrock	N/A	ATS, BKT	ATS, BKT	BKT	ATS	BKT
30-13	30	P	4.53	1.68	Cascade	Riffle, Run, Pool	6.33	0.43	0.12	Boulder	N/A	ATS, BKT	—	ATS BKT	ATS	BKT
31-14	31	P	3.43	1.2	Pool/Riffle	Run, Flat, Cascade	2.00	0.13	0.06	Gravel	N/A	ATS, BKT, EEL	ATS, BKT	BKT	ATS EEL	EEL BKT
19-69	19	P	2.13	1.57	Pool	Riffle, Run, Flat	1.33	0.04	0.12	Fines	N/A	EEL, ATS, BKT	—	BKT	ATS EEL	EEL BKT
12-373 (Northwest Arm Brook)	**12**	**P**	**10.53**	**10.43**	**Run**	**Riffle, Pool**	**1.00**	**0.33**	**0.21**	**Cobble**	**N/A**	**EEL, ATS, BKT**	**ATS, BKT**	**ATS, BKT**	**ATS, BKT, EEL**	**ATS, BKT, EEL**

Bold text indicates the watercourse is a scheduled salmon river.
Underlined text indicates that the watercourse is no longer at a crossing location.
Threespine stickleback were only captured within the IPA, therefore, habitat suitability is assessed only in the IPA.
[1]Perennial (P) – A stream that flows continuously throughout the year, Intermittent (I) – Streams that go dry during protracted rainless periods when percolation depletes all flow (AT, 2009).
[2]Gradient was estimated using a rangefinder and visual observations.
[3]Probable species presence determined for watercourses based on direct aquatic connectivity with another fisheries resource with confirmed species presence and habitat suitability, and/or previous baseline studies.
[4]Fish support determined through habitat suitability of all confirmed or probable species. Probable species not brought forward if suitable habitat not identified through detailed habitat evaluation. Species codes: American eel (EEL), brook trout (BKT), Atlantic salmon (ATS), three spine stickleback (3SB).
*None indicates the watercourse was fished and no fish were captured, and N/A indicates no fish collection surveys were completed. No fish captured during surveys does not confirm absence. Suitable habitat may still be present.
WC3-1630, 1-735, 5-1623, 2-1833, 3-594, and 3-1314 were visited but not assessed due to the absence of an intermittent or perennial watercourse.

5.2.2.2 Detailed Fish Habitat Assessment

Table 5.9 and 5.10 describe the physical characteristics of the watercourses and wetland mosaic located under the PF for the Industrial Facility based on detailed fish habitat surveys completed in 2025 (Drawing 3 A-K, Appendix A). Field confirmation of surface water features was also completed within the PF of the SPA, and no fish habitat was identified. Modelled watercourses were selected for detailed fish habitat surveys based on their potential to be directly or indirectly affected by the PF in the IPA.

Table 5.9: Summary of Detailed Fish Habitat Assessment Results

Watercourse	Reach	Stream Order	Flow Type[1]	Reach Characteristics										Fish Support[7]					
				Bankfull Width (m)[2]	Wetted Width (m)[2]	Reach Length (m)	Dominant Habitat Type	Other Habitats Present	Slope (%)[3]	Velocity Range (m/s)	Depth Range (m)	Dominant Substrate(s)[4]	Cover Types[5]	Confirmed Species*	Probable Species[6]	Spawning	YOY	Juvenile	Adult
IPA																			
15-104	1	2	P	1.6-2.5	0.12-2.05	121	Run	Run, Riffle, Pool	<1	0.09-0.33	0.11-0.59	Muck, Cobble, Gravel, Silt	AP, IN, O	None	EEL, ATS, BKT, 3SB	ATS, BKT	ATS, BKT, 3SB	ATS, BKT, EEL, 3SB	BKT, EEL, 3SB
	2	2	P	1.32	0.97	18	Flat	Flat, Pool	<1	0.05-0.15	0.20-0.43	Muck	AP, IN, O	None	BKT, EEL, 3SB	—	3SB	BKT, EEL, 3SB	BKT, EEL, 3SB
	3	2	P	1.29-1.37	0.76-1.22	90	Run	Run, Pool	<1	0.06-0.32	0.19-0.50	Cobble, Sand, Muck	AP, IN, O	None	EEL, ATS, BKT, 3SB	BKT	ATS, BKT, 3SB	ATS, BKT, EEL, 3SB	BKT, EEL, 3SB
	4	2	P	0.94-2.02	0.76-1.75	400	Riffle-run	Riffle, Run, Pool	<5	0.08-0.63	0.07-0.35	Cobble, Sand, Gravel, Boulder, Muck	AP, IN, O	None	EEL, ATS, BKT, 3SB	ATS, BKT	ATS, BKT, 3SB	ATS, BKT, EEL, 3SB	ATS, BKT, EEL, 3SB
	5	2	P	1.30-1.91	0.17-1.95	95	Run	Riffle, Cascade	<1	0.10-0.42	0.15-0.54	Cobble, Muck	AP, IN, O	None	ATS, BKT, EEL	—	ATS	ATS, BKT, EEL	BKT, EEL
	6	2	P	1.13-1.8	0.85-1.50	125	Riffle-run	Pool	<1	0.05-0.39	0.19-0.35	Muck	AP, IN, O	None	BKT, EEL, 3SB	—	BKT, 3SB	EEL, 3SB	EEL, 3SB
	7	2	P	1.33-2.46	1.15-2.5	319	Run	Riffle, Cascade, Pool	<1	<0.05-0.14	0.09-0.48	Muck, Gravel, Sand, Boulder, Cobble, Clay/Mud	AP, IN, O	None	EEL, ATS, BKT, 3SB	ATS, BKT	ATS, BKT, 3SB	ATS, BKT, EEL, 3SB	ATS, BKT, EEL, 3SB
	8	2	P	1.70-2.20	1.50-1.92	71	Riffle-run	Riffle, Run, Flat	<5	0.11-0.25	0.11-0.26	Cobble, Sand	AP, IN, O	None	EEL, ATS, BKT	ATS, BKT	ATS, BKT	ATS, BKT, EEL	BKT, EEL
	9	2	P	2.90-5.00	2.14-3.72	303	Riffle-run	—	<5	0.13-0.67	0.08-0.23	Boulder, Cobble, Gravel	AP, IN, O	None	EEL, ATS, BKT	ATS, BKT	ATS, BKT	ATS, BKT, EEL	ATS, BKT, EEL
	10	2	P	2.05	1.63	60	Run	—	<1	<0.05	0.29-0.31	Cobble, Gravel	AP, IN, O	None	EEL, ATS, BKT	ATS, BKT	ATS, BKT	ATS, EEL	BKT, EEL
	11	2	P	1.73-2.58	1.42-2.21	62	Riffle	—	<5	0.2-0.67	0.14-0.2	Cobble	AP, IN, O	None	ATS, BKT	ATS, BKT	ATS, BKT	ATS	BKT

Watercourse	Reach	Stream Order	Flow Type[1]	Reach Characteristics										Fish Support[7]					
				Bankfull Width (m)[2]	Wetted Width (m)[2]	Reach Length (m)	Dominant Habitat Type	Other Habitats Present	Slope (%)[3]	Velocity Range (m/s)	Depth Range (m)	Dominant Substrate(s)[4]	Cover Types[5]	Confirmed Species*	Probable Species[6]	Spawning	YOY	Juvenile	Adult
	12	2	P	2.16-4.32	1.31-3.13	550	Riffle-Run	Flat	<1	0.06-0.63	0.1-0.29	Cobble, Gravel, Boulder	AP, IN, O	None	ATS, BKT	ATS, BKT	BKT, ATS	ATS, BKT, EEL	ATS, BKT, EEL
15-159	1	1	P	1.68-2.35	1.33-2.11	370	Riffle-Run	—	<1	0.20-0.57	0.08-0.15	Boulder, Rubble, Cobble, Sand	AP, IN, O	None	EEL, ATS, BKT	ATS, BKT	ATS, BKT	ATS, BKT, EEL	ATS, BKT, EEL
	2	1	P	1.52-5.20	0.92-4.01	625	Riffle-Run	Flat, Pool	<1	0.05-0.50	0.05-0.38	Gravel, Sand, Muck, Cobble	AP, IN, O	None	EEL, ATS, BKT, 3SB	ATS, BKT	ATS, BKT, 3SB	ATS, BKT, EEL, 3SB	BKT, EEL, 3SB

[1]Perennial (P) – A stream that flows continuously throughout the year, Intermittent (I) – Streams that go dry during protracted rainless periods when percolation depletes all flow, Ephemeral (E) – A watercourse that flows during snowmelt and rainfall runoff periods only
[2]Ranges are provided for reaches measured through multiple transects.
[3]Slopes were estimated based on overall habitat type
[4]Dominant substrates are described as any substrate that made up more than 30% along any transect within the reach.
[5]Cover Types: AP = aquatic plants (submergent and/or emergent); IN = instream objects/in situ cover within the streambed in the form of fallen trees, submerged logs, rocks, boulders, undercut banks, and accumulated debris; O = overhead cover from riparian vegetation overhanging the stream
[6]Probable species presence determined for watercourses based on direct aquatic connectivity with another fisheries resource with confirmed species presence and habitat suitability.
[7]Fish support determined through habitat suitability of all confirmed or probable species. Probable species not brought forward if suitable habitat not identified through detailed habitat evaluation. Species codes: American eel (EEL), brook trout (BKT), Atlantic salmon (ATS).
*No fish collection was completed in these watercourses. Fish are expected to inhabit these watercourses.

Table 5.10: Summary of Key Diagnostic Features of Fish Habitat within Wetland Mosaics

Water feature	Location	Habitat Characteristics				Fish Support					
		Vegetation /Water Ratio	Dominant Substrate	Width (m)	Depth (m)	Confirmed Species	Probable Species[1]	Spawning	YOY	Juvenile	Adult
				Avg	Avg						
Wetland Mosaic A	In a bog near WC15-104	60/40	Muck	82	0.38	N/A	—	—	--	—	—

[1]Probable species presence determined for watercourses based on direct aquatic connectivity with another fisheries resource with confirmed species presence and habitat suitability.

WC15-104

WC15-104 is a perennial stream that originates from a wetland near the SPA and flows northeast, through the IPA, before eventually flowing into Northern Arm and the Bay of Exploits. The portion of WC15-104 that falls within the PF is mapped and characterized, along with a 500 m segment downstream of the proposed wastewater discharge location, which is located outside of the IPA (Drawing 3 A, Appendix A).

WC15-104 has an average bankfull width of 1.92 m and is slightly entrenched. The maximum depth was 0.59 m at the time of the assessment. The dominant substrates were muck, cobble, gravel, and sand. The dominant habitat type was a riffle-run, however, other habitat types such as runs, flats, riffles, pools, and cascades were present. Instream, aquatic plants, and overhead cover were all present throughout the reaches.

WC15-104 is considered to provide suitable habitat for all life stages of brook trout and Atlantic salmon, and juvenile and adult American eel throughout the majority of the area assessed. Suitable habitat for YOY, juvenile, and adult threespine stickleback is also present. Locations with finer substrates provides juvenile and adult habitat for American eel. Suitable spawning substrate was present for Atlantic salmon and brook trout in the form of sand, gravel, and cobble within suitable habitat types such as riffles, pools, and runs. Substrate, velocity, and an abundance of cover also provides suitable YOY, juvenile, and adult brook trout, threespine stickleback, and Atlantic salmon habitat. Therefore, WC15-104 is considered a fisheries resource, and it is expected that the four fish species known within the IPA may be present within this watercourse.

WC15-159

WC15-159 is a perennial tributary that originates from outside of the PA and flows northeast. The watercourse splits into two channels just west of the IPA; one channel flows through the IPA, before eventually converging with WC15-104 within the IPA – while the second channel flows north then northeast around the IPA, eventually converging again with WC15-104 approximately 1 km north of the IPA (Drawing 3 A, Appendix A). Only the portion of WC15-159 that falls within the PF is mapped and characterized (Drawing 3 A, Appendix A).

WC15-159 has an average bankfull width of 2.71 m and is slightly entrenched. The maximum depth was 0.38 m at the time of the assessment. The dominant substrates were boulder, rubble, muck, cobble, gravel, and sand. The dominant habitat type was a riffle-run, however, other habitat types such as flats and pools were present, but less frequent. Instream, aquatic plants, and overhead cover were all present throughout the reaches.

WC15-159 is considered to provide suitable habitat for all life stages of brook trout and Atlantic salmon, and juvenile and adult American eel throughout the area assessed. Suitable habitat for YOY, juvenile, and adult threespine stickleback is also present. Finer substrates provide juvenile and adult habitat for American eel. Suitable spawning substrate was present for Atlantic salmon and brook trout in the form of sand, gravel, and cobble within suitable habitat types such as riffles, pools, and runs. Substrate, velocity, and an abundance of cover also

provides suitable YOY, juvenile, and adult brook trout, threespine stickleback, and Atlantic salmon habitat. Therefore, WC15-159 is considered a fisheries resource, and it is expected that the four fish species known within the IPA may be present within this watercourse.

Wetland Mosaic A

Wetland Mosaic A is located in a bog adjacent to WC15-104. There are many pockets of standing surface water within the bog that contain abundant submergent and emergent vegetation, creating a mosaic of wetland and open water habitat. The dominant substrate within the surface water is muck. No direct connectivity to WC15-104 was observed, therefore, it is unlikely that fish can access the wetland mosaic, apart from during flood conditions. The lack of connectivity except for during flood conditions suggests that Wetland Mosaic A does not provide suitable fish habitat. If fish are able to access Wetland Mosaic A, it is likely that they will become stranded because WC15-104 is at least 78 m away from the nearest pocket of water.

5.2.3 Water Quality

5.2.3.1 In-Situ Water Quality

In-situ water quality results are reported and discussed as it relates to the chemical characteristics required for suitable fish habitat. Where applicable, water quality sampling results are measured against the CCME FWAL Guidelines. In-situ water quality measurements recorded during fish collection, surface water sampling, watercourse assessment surveys, and detailed fish habitat assessments are summarized in Table 5.11. In-situ water quality data was collected using a calibrated YSI Professional Plus Multi-Probe and a Lamotte turbidity meter. Reported values are the average of the values recorded at T_0, T_1, and T_2 for each crossing assessment and the average of the values recorded during detailed fish habitat assessments. One reading was recorded at each surface water quality sampling location.

In-situ water quality was recorded opportunistically during fish collection, fish habitat, and hydrology surveys. These results represent conditions at a specific moment and do not indicate any spatial or temporal trends in water quality. In-situ water quality is used only to support a general description of habitat quality.

Table 5.11: Summary of In-Situ Water Quality Measurements

WC ID	Local Watershed ID	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)	Turbidity (FNU)
BWPA							
3-1759	3	June 20, 2024	20.60	6.62	8.27	32.20	0.65
3-1918	3	June 18, 2024	16.60	**6.29**	9.76	23.90	--
2-2372	2	July 8, 2024	16.00	6.93	9.60	57.10	0.46

WC ID	Local Watershed ID	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)	Turbidity (FNU)
3-1961	3	June 21, 2024	18.10	6.90	9.05	34.60	--
3-1759	3	June 19, 2024	12.40	6.70	13.54	37.10	0.23
3-1314	3	July 6, 2024	17.00	6.49	8.71	50.60	11.90
3-1918	3	June 22, 2024	13.40	6.99	10.32	34.20	4.14
2-613	2	June 18, 2024	16.70	**6.10**	8.26	31.30	--
2-613	2	June 27, 2024	18.40	6.81	6.75	37.90	1.12
3-2133 (New Bay River)	3	July 8, 2024	20.90	6.93	8.8	25.00	0.39
3-1065	3	June 19, 2024	17.50	**5.40**	6.95	33.90	1.13
5-1623 (Northern Arm River	5	June 18, 2024	16.80	**5.97**	9.27	18.20	8.18
3-1435	3	June 17, 2024	18.60	**5.03**	**4.81**	24.60	1.67
3-1435	3	June 20, 2024	19.10	**6.22**	9.43	25.80	1.58
2-613	2	June 21, 2024	18.70	**6.13**	7.71	26.80	0.39
2-613	2	June 21, 2024	18.70	**6.13**	7.71	26.80	0.39
3-2028	3	July 5, 2024	13.90	6.79	10.20	22.90	0.17
3-587	3	June 27, 2024	23.10	6.53	7.83	37.40	3.54
3-587	3	July 8, 2024	19.00	**6.43**	6.77	53.80	1.94
3-1918 (New Bay River)	3	July 8, 2024	18.90	**5.94**	7.75	24.10	1.92
3-694	3	June 18, 2024	18.70	**5.30**	8.31	14.30	3.18
3-694	3	June 21, 2024	20.80	6.52	6.22	30.50	--
3-1298	3	June 18, 2024	14.80	**6.39**	5.76	59.90	--
2-648	2	June 21, 2024	16.30	7.81	8.01	7.81	--

WC ID	Local Watershed ID	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)	Turbidity (FNU)
2-2926 (West Arm Brook)	2	July 7, 2024	20.90	6.77	8.88	22.40	0.95
2-2315	2	July 5, 2024	27.30	**6.11**	6.56	32.60	0.41
2-613	2	June 20, 2024	23.50	**5.40**	7.02	26.50	---
3-1314	3	June 17, 2024	18.20	**5.49**	9.15	21.80	0.32
5-1253	5	June 20, 2024	23.50	**6.23**	**5.48**	44.60	0.51
5-1476	5	June 18, 2024	16.40	**6.18**	9.46	23.30	2.24
3-1666	3	June 21, 2024	23.20	--	8.12	51.90	--
3-1630	3	June 21, 2024	20.30	**6.49**	8.10	56.10	2.47
3-1630	3	June 22, 2024	17.80	6.64	8.90	59.60	--
13-143	13	June 22, 2024	18.40	6.99	9.39	63.70	4.87
33-12	33	June 21, 2024	16.70	7.21	8.27	63.80	0.47
13-173	13	June 22, 2024	19.60	7.18	8.58	47.60	0.41
13-173	13	July 6, 2024	24.20	6.80	6.92	51.60	4.88
7-448	7	June 22, 2024	18.10	6.56	**4.32**	59.00	0.57
WQM-1 (New Bay Pond)	3	August 28, 2024	20.50	6.99	8.61	26.40	---
WQM-1 (New Bay Pond)	3	April 15, 2025	2.60	6.71	14.08	28.10	---
WQM-7	7	August 29, 2024	18.90	7.36	**4.84**	103.20	---
WQM-11 (New Bay Pond west side)	3	April 15, 2025	4.20	**6.07**	13.93	16.70	---
SLWPA							
21-53	21	June 24, 2024	13.90	**5.20**	7.73	28.80	--
9-497	9	June 24, 2024	16.90	**5.19**	7.97	25.80	2.35

WC ID	Local Watershed ID	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)	Turbidity (FNU)
9-532	9	July 11, 2024	20.30	6.89	7.64	30.20	0.57
10-490	10	July 5, 2024	18.70	6.58	8.60	24.40	1.94
10-177	10	July 5, 2024	23.00	**5.51**	7.23	35.70	---
8-669	8	June 27, 2024	19.60	6.67	8.12	32.00	0.98
8-135	8	July 5, 2024	19.10	**5.88**	**1.65**	111.00	0.15
9-497	9	July 13, 2024	19.00	**5.80**	**3.88**	59.50	4.70
9-360	9	June 23, 2024	19.50	**5.87**	8.90	26.50	--
9-538	9	June 25, 2024	15.00	**5.50**	9.81	26.30	0.68
9-156	9	June 25, 2024	14.10	6.50	10.27	26.90	0.78
TLWPA							
9-607	9	June 24, 2024	15.20	**5.47**	9.84	27.70	0.96
9-607	9	June 25, 2024	23.90	**6.49**	7.52	31.20	1.17
9-363	9	June 23, 2024	17.80	**5.94**	8.97	26.0	--
9-532	9	June 26, 2024	21.20	**5.74**	7.60	24.40	0.63
9-482	9	June 26, 2024	14.90	**6.45**	7.89	43.90	0.19
3-1065	3	June 26, 2024	12.70	**4.83**	10.27	20.00	1.24
1-16832	1	July 13, 2024	17.10	**4.37**	6.30	30.20	14.03
9-482	9	June 24, 2024	15.00	6.66	9.60	28.20	0.54
LTWPA							
19-69	19	July 13, 2024	18.90	7.51	8.05	77.70	0.40
18-64	18	July 13, 2024	25.10	6.86	**5.16**	70.60	0.78
16-10	16	July 13, 2024	20.90	6.81	5.64	223.70	2.42
30-13	30	July 13, 2024	22.70	6.57	7.78	64.60	2.00
31-14	31	July 13, 2024	19.40	6.98	7.33	122.30	1.80
19-69	19	July 13, 2024	13.30	**6.23**	**2.92**	77.50	0.60

WC ID	Local Watershed ID	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)	Turbidity (FNU)
WQM-9 (Rocky Pond)	18	August 29, 2024	18.60	7.74	7.26	83.50	---
Rocky Pond	18	May 14, 2025	11.90	6.52	**9.35**	86.40	--
30-13	30	May 15, 2025	13.90	6.56	10.04	77.70	--
IPA							
WQM-3 (Peters Pond Inlet)	4	August 27, 2024	20.00	7.72	6.71	121.30	---
WQM-3 (Peters Pond Inlet)	4	April 15, 2025	3.10	**6.26**	12.52	32.60	---
WQM-4 (Peters Pond)	4	August 27, 2024	20.00	7.56	7.10	84.70	---
WQM-4 (Peters Pond)	4	April 16, 2025	3.30	6.64	11.60	47.30	---
WQM-5 (Peters Pond Outlet)	4	August 27, 2024	19.70	8.30	9.96	100.50	---
WQM-5 (Peters Pond Outlet)	4	April 16, 2025	3.90	6.64	13.41	48.80	---
15-104	15	May 1 - 5, 2025	8.39	6.76	11.44	33.21	---
15-159	15	May 8 - 9, 2025	12.47	7.43	11.33	51.44	---
15-104	15	May 15, 2025	8.70	6.90	13.03	51.80	--
Unnamed waterbody	4	May 14, 2025	11.8	**6.35**	11.8	23.70	--
Peters Pond	4	May 15, 2025	9.70	6.56	10.04	77.70	--

Bold indicates an exceedance of CCME FWAL Guidelines (CCME, 2025)
Underlined text indicates that the watercourse is no longer at a proposed crossing location.
All watercourses were classified as perennial.

5.2.3.2 Temperature

Water temperature affects the metabolic rates and biological activity of aquatic organisms, thus influencing the use of habitat by aquatic biota. There are no CCME guidelines related to

temperature and aquatic biota. Temperature preferences of fish vary between species, as well as with size, age, and season.

Trout and salmon are cold-water fish species, meaning they require cold water to live and reproduce. The optimal temperature range for brook trout growth and survival is 11 to 16°C, but they can tolerate temperatures up to 20°C (Raleigh, 1982). The optimum temperature for growth of juvenile salmon is in the range of 16 to 20°C (Elliot & Elliot, 2010), but parr can thermoregulate up to 27°C (Corey et al., 2019). The incipient lethal temperature for adult Atlantic salmon is approximately 25°C (DFO, 2012). However, prolonged exposure to temperatures above 20°C can be detrimental (DFO, 2012). American eel have a broader temperature range and can tolerate temperatures from 4 to 25 °C (U.S. Fish & Wildlife Service, 2020). Threespine stickleback are a coolwater species, with an optimal growth temperature of 16 to 18 °C (Hasnain, 2012). However, threespine stickleback can tolerate temperatures up to 29°C (Lefébure et al., 2011).

Average summer temperatures were collected in-situ as part of baseline surveys completed within and adjacent to the PA between June 18 and August 29, 2024. The average temperatures were 19.39 °C (BWPA), 17.23 °C (TLWPA), 18.10°C (SLWPA), 19.33 °C (LTWPA), and 19.32°C (IPA).

Average spring temperatures were collected in-situ during surface water monitoring, trapping, and detailed fish habitat assessments within and adjacent to the PA on April 15 and 16, 2025 and May 1 to May 15, 2025. The average temperature was 9.16 °C in the IPA, 8.6 °C in the LTWPA, and 3.4°C in the BWPA.

Average temperatures are considered suitable for cold-water species (such as Atlantic salmon and brook trout). In total, 18 locations exceeded 20°C, which exceeds the temperature tolerance for brook trout and Atlantic salmon. Additionally, three locations exceeded 25°C, which is outside of the temperature range for American eel. No locations exceeded the temperature range for threespine stickleback (5 to 29°C) (Lefébure et al., 2011). Water temperatures are expected to be higher during the summer months when most of the temperatures were recorded, however, approximately 70% of the summer sampling events recorded temperatures suitable for all fish species known to occur within the PA.

5.2.3.3 pH

The CCME FWAL guidelines (CCME, 2025) establish that a range of pH from 6.5 to 9.0 is suitable within freshwater habitat. Kalff indicates that the loss of fish populations is gradual and depends on fish species, but decline is evident when pH is <6.5 (Kalff, 2002). Kalff further states that a 10 to 20% species loss is apparent when pH <5.5 (Kalff, 2002). Brook trout are tolerant of low pH, and are known to tolerate pH values as low as 4.5 (MDNR, 2012). Atlantic salmon can tolerate a pH of 5.4 (Kanno & Beazley, 2004). American eel are more tolerant of low pH than many other species, and are known to tolerate pH levels as low as 4.0 (Reynolds, 2011). Threespine stickleback can tolerate pH values as low as 5.5 (Peterson et al., 1989).

There were 33 occurrences across 69 summer sampling events (48%) of the pH falling below the range suitable for fish within freshwater habitat (6.5 to 9.0). The pH for watercourses sampled within the PA ranged from 4.37 to 8.3 and the average pH value was 7.42.

The lowest pH recording was 4.37 in WC1-16832; which is still considered suitable for American eel (>4.0). Apart from WC1-16832, all other watercourses have pH levels that are considered suitable for brook trout (>4.5). There are six watercourses (WC1-16832, 3-1065, 21-53, 9-497, 3-1435, and 3-694) that have pH levels below 5.4, which is considered limiting for Atlantic salmon (>5.4). Four additional pH levels (3-1065, 2-613, 3-1314, and 9-607) are limiting for threespine stickleback (>5.5).

There were three occurrences across 12 spring sampling events (25%) of the pH falling below the range suitable for fish within freshwater habitat. The pH recorded in the spring ranged from 6.07 to 8.30, and the average was 6.58. All pH values recorded in the spring are considered suitable for all species known within the PA.

5.2.3.4 Dissolved Oxygen

The atmosphere, and photosynthesis by aquatic vegetation, are the major sources of DO in water (CCME, 2025). However, the amount of oxygen available for aquatic life (i.e. the concentration of oxygen in water) is affected by several independent variables including water temperature, atmospheric and hydrostatic pressure, microbial respiration, and growth of aquatic vegetation; DO can vary daily and seasonally (CCME, 2025). The CCME FWAL guidelines establish a minimum recommended concentration of DO of 9.5 mg/L for early life stages of cold-water biota and 6.5 mg/L for other life stages. For warmwater biota, the CCME guidelines recommend 6.0 mg/L for early life stages, and 5.5 mg/L for all other life stages.

Eight (12%) of the DO measurements recorded in June and July 2024 (WC9-497, 3-1435, 8-135, 5-1253, 7-448, WQM-7, 18-64, and 19-69) fall below the recommended DO concentration for all other life stages of warm-water biota (5.5 mg/L).

For early life stages of warm-water biota, two additional watercourses (WC3-1298 and WC16-10) fall below the recommended DO concentration (6.0 mg/L). Of the 69 sampling events, 85.51% of the results are considered suitable for warmwater biota, such as American eel. In addition to the watercourses mentioned above, two watercourses fall below the recommended DO concentration for all other life stages of cold-water biota (6.5 mg/L) (WC3-694 and WC3-1298). Approximately 83% of the results are considered suitable for all life stages of cold-water biota, such as Atlantic salmon and brook trout, except for early life stages.

A total of 12 watercourses (17%) meet the recommended DO concentration of 9.5 mg/L for early life stages of cold-water biota [WC9-156, 9-538, 3-1759, 3-1918 (two occurrences), 9-360, 3-1065, 9-607, 9-482, 3-2028, 2-2372, and WQM-5].

The majority of water quality measurements were recorded during the summer months. Increased summer temperatures lead to a decrease in DO concentrations (CCME, 1999).

Therefore, it is likely that during cooler months, DO levels are higher and may fall within the range for all life stages of warmwater and cold-water biota.

During in-situ spring water quality sampling at 12 locations, all DO concentrations recorded are considered suitable for all species and life stages, apart from one, which was recorded in Rocky Pond in the LTWPA (9.35 mg/L). This DO concentration is unsuitable only for early life stages of cold-water biota.

5.2.3.5 Specific Conductivity and Turbidity

Specific conductivity and turbidity often used as baseline for comparison with background measurements. Significant changes in these parameters could indicate that a discharge or some other source of pollution has entered the aquatic resource. Elevated levels of sediment and turbidity can reduce the biological productivity of aquatic systems. When sediment and turbidity levels exceed background values for a particular period of time, there is an increased risk to the survival and productivity of fish (DFO, 2000). Examples of potentially lethal and sublethal effects of sedimentation of fish habitat include decreased plant growth; decreased abundance of benthic organisms; decreased embryo and alevin survival; increased susceptibility to predation; and injury and death, among others (DFO, 2000).

Specific conductivity recorded in the summer ranged from 7.81 µS/cm to 223.70 µS/cm, with an average of 80.32 µS/cm. Turbidity ranged from 0.15 FNU to 14.04 FNU, with an average of 2.00 FNU.

During spring surveys in five WQM locations, five trapping locations, and watercourses selected for detailed habitat, specific conductivity ranged from 16.7 to 86.4, with an average of 58.68 µS/cm.

5.2.3.6 Marine Surface Water Sampling

One of the surface water quality locations (WQM-6) is located within Peters Arm, within the marine environment. Results are assessed using the CCME Water Quality Guidelines for the Protection of Aquatic Life (marine) (Table 5.12).

Table 5.12: Marine Surface Water Quality Results

Water Quality Location	Date	Water Temp (°C)	pH	DO (mg/L)	Specific Conductivity (µS/cm)
IPA					
WQM-6	August 29, 2024	14.1	7.57	8.82	37,408

WQM-6 meets all of the CCME Water Quality Guidelines for the Protection of Aquatic Life (marine). The recommended minimum concentration for DO is 8.0 mg/L (8.82 mg/L) and pH is 7.0 to 8.7 (8.82) (CCME, n.d.). The water temperature (14.1°C) is suitable for American eel (4 to 25 °C), brook trout (11-16 °C), and adult Atlantic salmon at sea (4 to 10 °C) (DFO, 2012;

Raleigh, 1982; U.S. Fish & Wildlife Service, 2020). There are no CCME Guidelines for conductivity in the marine environment.

6.0 SUMMARY OF CONDITIONS

The following sections summarize the desktop and field survey results within each component of the Project in Table 6.1-6.3.

6.1.1 Wind and Transmission Component

Table 6.1 summarizes the results within the WPA.

Table 6.1: Summary of Results within the WPA

Section	Summary
Desktop Review	
Surface Water Classification (Section 5.1.2)	Across 85 watersheds, 1,307 potential watercourse crossings were identified.
Fish Collection	
Trapping (Section 5.2.1.2)	25 sites were trapped resulting in the capture of the following species: • 18 brook trout • 67 Atlantic salmon • 28 American eel
Electrofishing (Section 5.2.1.1)	22 sites were electrofished resulting in the capture of the following species: • 225 brook trout • 116 Atlantic salmon • 4 American eel • 3 unidentified salmonids
Fish Habitat Characterization	
Watercourse Crossing Assessment (Section 5.2.2)	28 Class N watercourses were assessed.
	10 Class S1 watercourses were assessed.
	2 Class S2 watercourses were assessed.
Detailed Fish Habitat Assessment (Section 5.2.2.2)	Not completed within this component.
Water Quality	
Water Quality (Section 5.2.3)	Temperature range: 12.4 to 27.3 °C (summer) 2.6 to 13.9 °C (spring)
	pH range: 4.37 to 7.81 (summer) 6.07 to 6.71 (spring)
	DO range: 1.65 mg/L to 13.54 mg/L (summer) 9.35 mg/L to 14.08 mg/L (spring)
	Specific conductivity and turbidity range: 7.81 µS/cm to 223.7 µS/cm and 0.15 FNU to 14.03 FNU (summer) 16.7 µS/cm to 86.4 µS/cm (spring)

6.1.1.1 Surface Water Classification

Within the WPA, approximately 3% of watercourses were assessed within the BWPA, 1% in the LTWPA, 3% in the TLWPA, and 6% within SLWPA. There were 1,259 modelled watercourses classified as N, 41 as S1, and seven as S2. Of the 41 S1 watercourses, 24% were field assessed, and of the seven S2 watercourses, approximately 29% were field assessed. This achieves the goal of assessing 10% of S1 and 25% of S2 watercourses.

6.1.1.2 Fish and Fish Habitat

Fish Collection

Fish collection surveys resulted in the capture of 461 individual fish and three species across 42 locations in the WPA. Brook trout was the most commonly captured species, accounting for approximately 53% (243) of the total catch. Atlantic salmon and American eel comprised approximately 40% (183) and 7% (32) of the total catch, respectively. Three unidentified salmonids escaped prior to identification (0.65%).

Watercourse Crossing Assessments

Fish habitat characterization surveys were completed in 64 watercourses, 40 of which were at crossing locations within the WPA. Six additional locations were either field identified as wetland habitat, ephemeral drainage, or no watercourse existed. Suitable habitat was present for several life stages of the fish species known to be present within the WPA in most field-verified watercourses. Suitable spawning habitat for brook trout and Atlantic salmon were identified in 36 of the 64 watercourses.

6.1.1.3 In-Situ Water Quality

Average temperatures are considered suitable for cold-water species (such as Atlantic salmon and brook trout). There were 18 locations that exceeded 20°C, which exceeds the temperature tolerance for brook trout and Atlantic salmon. Additionally, three locations exceeded 25°C, which is outside of the temperature range for American eel. Water temperatures are expected to be higher during the summer months, and despite this, 68.18% of the summer sampling events recorded temperatures suitable for all fish species known to occur within the PA.

There were 33 occurrences across 66 summer sampling events (50%) of the pH falling below the range suitable for fish within freshwater habitat (6.5 to 9.0). The pH for watercourses sampled within the PA ranged from 4.37 to 7.81 and the average pH value was 6.29.

The lowest pH recording in the summer was 4.37, which is still considered suitable for American eel (>4.0). All other watercourses have pH levels that are considered suitable for brook trout (>4.5). There are six watercourses that have pH levels below 5.4, which is considered limiting for Atlantic salmon (>5.4).

There was one occurrence across four spring sampling events (25%) of the pH falling below the range suitable for fish within freshwater habitat. The pH values recorded in the spring

ranged from 6.07 to 6.71. All pH values recorded in the spring are considered suitable for all species known within the WPA.

Eight (12%) of the DO measurements recorded in June and July 2024 fall below the recommended DO concentration for all other life stages of warm-water biota (5.5 mg/L). For early life stages of warm-water biota, two additional watercourses fall below the recommended DO concentration (6.0 mg/L). Of the 66 sampling events, approximately 85% of the results are considered suitable for warmwater biota, such as American eel.

In addition to the watercourses mentioned above, two watercourses fall below the recommended DO concentration for all other life stages of cold-water biota (6.5 mg/L). Therefore, approximately 82% of the results are considered suitable for all life stages of cold-water biota, such as Atlantic salmon and brook trout, except for early life stages.

In total, 11 watercourses (16%) meet the recommended DO concentration of 9.5 mg/L for early life stages of cold-water biota.

Of the four DO measurements recorded in April 2025, only one falls below the recommended DO concentration for early life stages of cold-water biota. All other concentrations are within the recommended DO concentration for all life stages for all species.

Water quality measurements were recorded during the summer months, with the exception of two measurements collected in April 2025. Increased summer temperatures lead to a decrease in DO concentrations (CCME, 1999). Therefore, it is likely that during cooler months, most of the DO levels will be suitable for all life stages of warmwater and cold-water biota.

6.1.2 Solar Component

Table 6.2 summarizes the results within the SPA.

Table 6.2: Summary of Results within the SPA

Section	Summary
Desktop Review	
Surface Water Classification (Section 5.1.2)	Across two watersheds, ten potential first-order streams were predicted through desktop methods within the PF.
Fish Collection	
Trapping (Section 5.2.1.2)	No trapping was completed within this component due to the absence of fish habitat.
Electrofishing (Section 5.2.1.1)	No electrofishing completed within this component due to the absence of fish habitat.
Fish Habitat Characterization	
Watercourse Crossing Assessment (Section 5.2.2.1)	No Class N watercourses were assessed.
	No Class S1 watercourses were assessed.
	No Class S2 watercourses were assessed.

Section	Summary
Detailed Fish Habitat Assessment (Section 5.2.2.2)	Assessments within the SPA PF determined no fish habitat is present.
In-Situ Water Quality	
Water Quality (Section 5.2.3)	No water quality measurements collected due to the absence of fish habitat.

6.1.2.1 Surface Water Classification

No watercourse crossings were identified within the SPA. Based on desktop review, 10 modelled first-order streams were identified as potentially intersecting the PF of the SPA.

6.1.2.2 Fish and Fish Habitat

The 10 first-order streams identified through aerial review were field verified and no watercourses or fish habitat were observed within the PF. One isolated open water feature was identified within the SPA. The lack of connectivity to potentially fish bearing features indicates that the open water is not a fisheries resource.

6.1.2.3 Detailed Fish Habitat Assessment

No fish habitat was identified within the PF of the SPA during detailed fish habitat assessments.

6.1.3 Industrial Component

Table 6.3 summarizes the results within the IPA.

Table 6.3: Summary of Results within the IPA

Section	Summary
Desktop Review	
Surface Water Classification (Section 5.1.2)	Across 7 watersheds, 30 potential watercourse crossings were identified.
Watersheds and Water Resources (Section 5.1.1)	Description of Peters Pond.
Fish Collection	
Trapping (Section 5.2.1.2)	Four sites were trapped, resulting in the capture of the following species: • 15 Atlantic salmon • 5 American eel • 1 brook trout • 83 threespine stickleback
Electrofishing (Section 5.2.1.1)	No electrofishing completed within this component due to field work being completed outside of the electrofishing window (June 15 to September 15).
Fish Habitat Characterization	
Watercourse Crossing Assessment (Section 5.2.2.1)	No Class N watercourses were assessed.
	No Class S1 watercourses were assessed.
	No Class S2 watercourses were assessed.

Section	Summary
Detailed Fish Habitat Assessment (Section 5.2.2.2)	Detailed habitat was completed within the two watercourses within the PF and 500 m downstream of the proposed discharge location.
Water Quality	
Water Quality (Section 5.2.3)	Temperature range: 19.7 to 20 °C (summer) 3.1 to 11.8 °C (spring
	pH range: 7.56 to 8.30 (summer) 6.26 to 6.90 (spring)
	DO range: 6.71 mg/L to 9.96 mg/L (summer) 10.04 mg/L to 13.41 mg/L (spring)
	Specific Conductivity range: 84.7 to 121.3 µs/cm (summer) 32.6 µS/cm to 77.7 µS/cm (spring)

6.1.3.1 Surface Water Classification

The desktop review identified 30 watercourse crossings within the IPA. All watercourses were classified as N. Peters River is not a crossing location but received a crossing assessment as a scheduled salmon river. Additional watercourses were beneath the PF of the Industrial Facility were field verified and characterized through detailed fish habitat assessments.

6.1.3.2 Watersheds and Water Resources

Seven local watersheds were identified within the IPA. Peters Pond is located within local watershed 4. The throughflow of Peters Pond is Peters River, which is a scheduled salmon river and used to be the water supply area for the towns of Botwood and Petersview (Newfoundland and Labrador, n.d.). Peters River flows into the Bay of Exploits by the town of Botwood. The closest protected water supply area is Indian Cove Pond, which is located within local watershed 7, approximately 8.5 km north of Peters Pond. Another protected water supply area, Northern Arm Lake, is located partially within the same local watershed as Peters Pond (watershed 4). It is located approximately 12.3 km west of Peters Pond. Peters Pond is not located within a protected watershed (Drawing 4 A-B, Appendix A).

6.1.3.3 Fish and Fish Habitat

Fish Collection

Peters River is a scheduled salmon river that flows through the IPA. Two species and 17 individual fish were captured through trapping surveys. Atlantic salmon were the most abundant species, accounting for 12 of the 17 fish (71%). Five American eel were captured. Threespine stickleback were the only species captured in Peters Pond and Flowers Pond. In WC15-104, threespine stickleback were the most abundant species captured (83%), followed by Atlantic salmon (13%) and brook trout (4%),

Watercourse Crossing Assessment

A watercourse crossing assessment was completed in Peters River, adjacent to the IPA. The results indicated that suitable spawning habitat is present for Atlantic salmon and brook trout. Additionally, suitable young-of-year habitat for Atlantic salmon, juvenile habitat for American eel, Atlantic salmon, and brook trout, and adult American eel habitat was identified.

Peters River had an average bankfull width of 19.75 m, and the dominant habitat type is a run. Average velocity was high, at 1.24 m/s and the average depth was 0.5 m. Cobble is the dominant substrate.

Detailed Fish Habitat Assessment

Detailed fish habitat assessments were completed for the two watercourses within the PF of the Industrial Facility and 500 m downstream of the proposed wastewater discharge location (WC15-104 and WC15-159. Results are described in Section 5.2.2.2).

6.1.3.4 In-Situ Water Quality

In-situ surface water quality was collected at WQM locations from August 27 to August 29, 2024, and at trapping locations on May 14 and 15, 2025.

None of the locations exceeded 20 °C, therefore, the temperature is considered suitable for all species known within the IPA.

The pH values recorded in the summer were also all within the recommended guidelines (6.5 to 9.0).

In-situ surface water quality was collected during the spring at WQM locations on April 15, 2025, and May 14 and 15, 2025. There were two occurrences across six spring sampling events (33.33%) of the pH falling below the range suitable for fish within freshwater habitat. The pH recorded in the spring ranged from 6.26 to 6.90, and the average was 6.58. All pH values recorded in the spring are considered suitable for all species known within the IPA.

WQM-3 and WQM-4 have DO concentrations that meet the recommended DO concentration for all other life stages of cold-water biota (6.5 mg/L) and all life stages of warmwater biota (6.0 mg/L). However, only WQM-5 had a DO concentration that is suitable for all life stages of both warm-water and cold-water biota (9.96 mg/L, recommendation of 9.5 mg/L).

All DO measurements recorded in April and May 2025 are within the recommended DO concentration for all life stages for all species

WQM-6 is marine, therefore, the results were compared against the CCME Water Quality Guidelines for the Protection of Aquatic Life (marine). WQM-6 meets all of the CCME Water Quality Guidelines for the Protection of Aquatic Life (marine). The recommended minimum concentration for DO is 8.0 mg/L (8.82 mg/L) and pH is 7.0 to 8.7 (8.82) (CCME, n.d.). The water temperature (14.1°C) is suitable for American eel (4 to 25 °C), brook trout (11-16 °C), and adult Atlantic salmon at sea (4 to 10 °C) (DFO, 2012; Raleigh, 1982; U.S. Fish & Wildlife Service, 2020). There are no CCME Guidelines for conductivity.

7.0 STATEMENT OF QUALIFICATIONS AND LIMITATIONS

This Report (the "Report") has been prepared by Strum Consulting ("Consultant") for the benefit of EVREC ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations, and conclusions contained in the Report (collectively, the "Information"):

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- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation of similar reports
- may be based on information provided to Consultant which has not been independently verified
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Should additional information become available, Strum requests that this information be brought to our attention immediately so that we can re-assess the conclusions presented in this report. This report was prepared by Emily MacLean, BASc, Environmental Scientist, Katrina Ferrari, BSc., Aquatic Specialist, and reviewed by Melanie Juurlink, MREM, Senior Ecology Lead.

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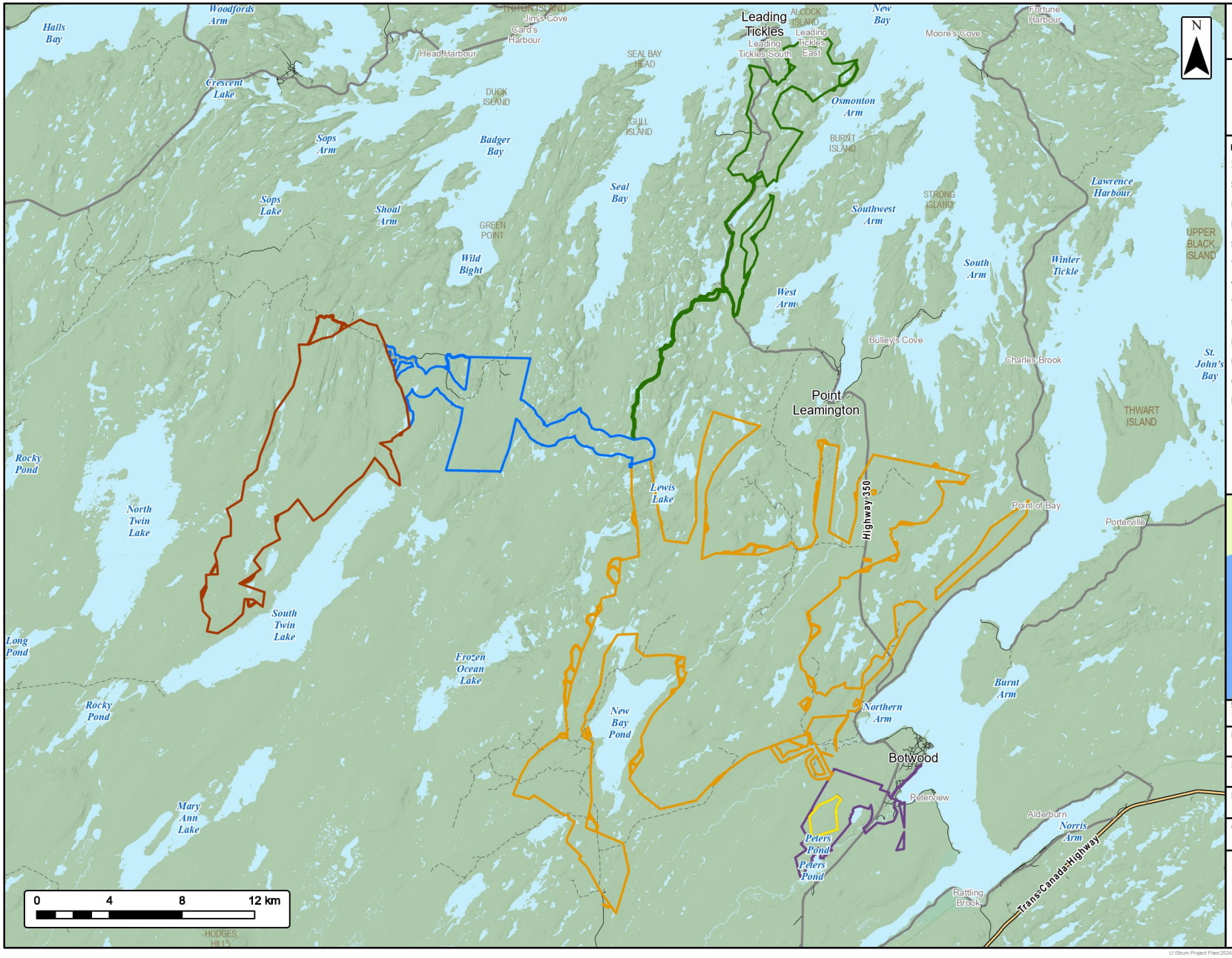
APPENDIX A
DRAWINGS



EVREC Green Energy Hub

Project Locator

EVREC

Project Area

- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area

Transportation

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

Water Features

- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

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Checked By: N. Thomas	

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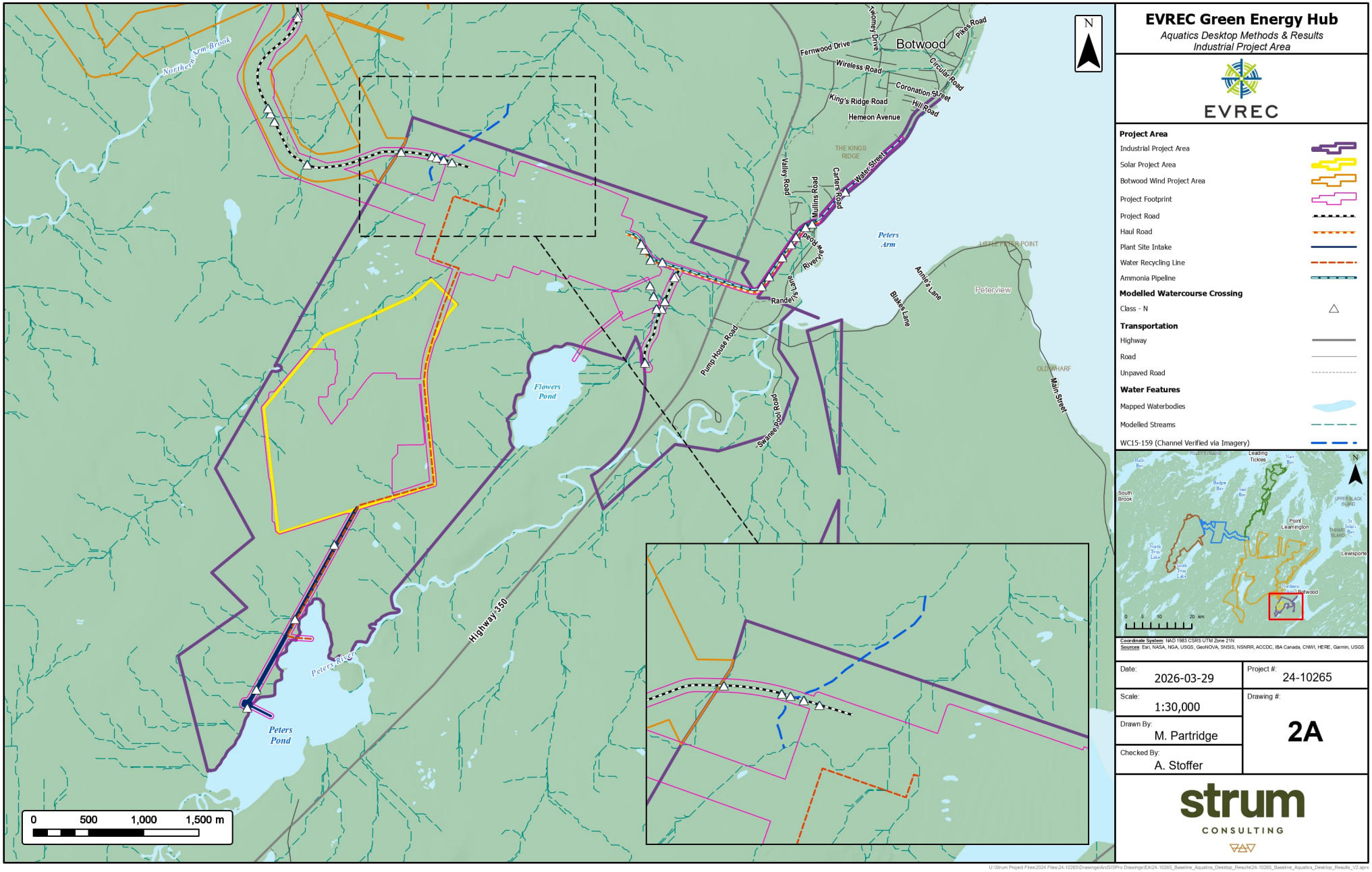

EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Industrial Project Area

EVREC

Project Area
- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Project Footprint
- Project Road
- Haul Road
- Plant Site Intake
- Water Recycling Line
- Ammonia Pipeline

Modelled Watercourse Crossing
- Class - N

Transportation
- Highway
- Road
- Unpaved Road

Water Features
- Mapped Waterbodies
- Modelled Streams
- WC15-159 (Channel Verified via Imagery)

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

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Checked By: A. Stoffer	

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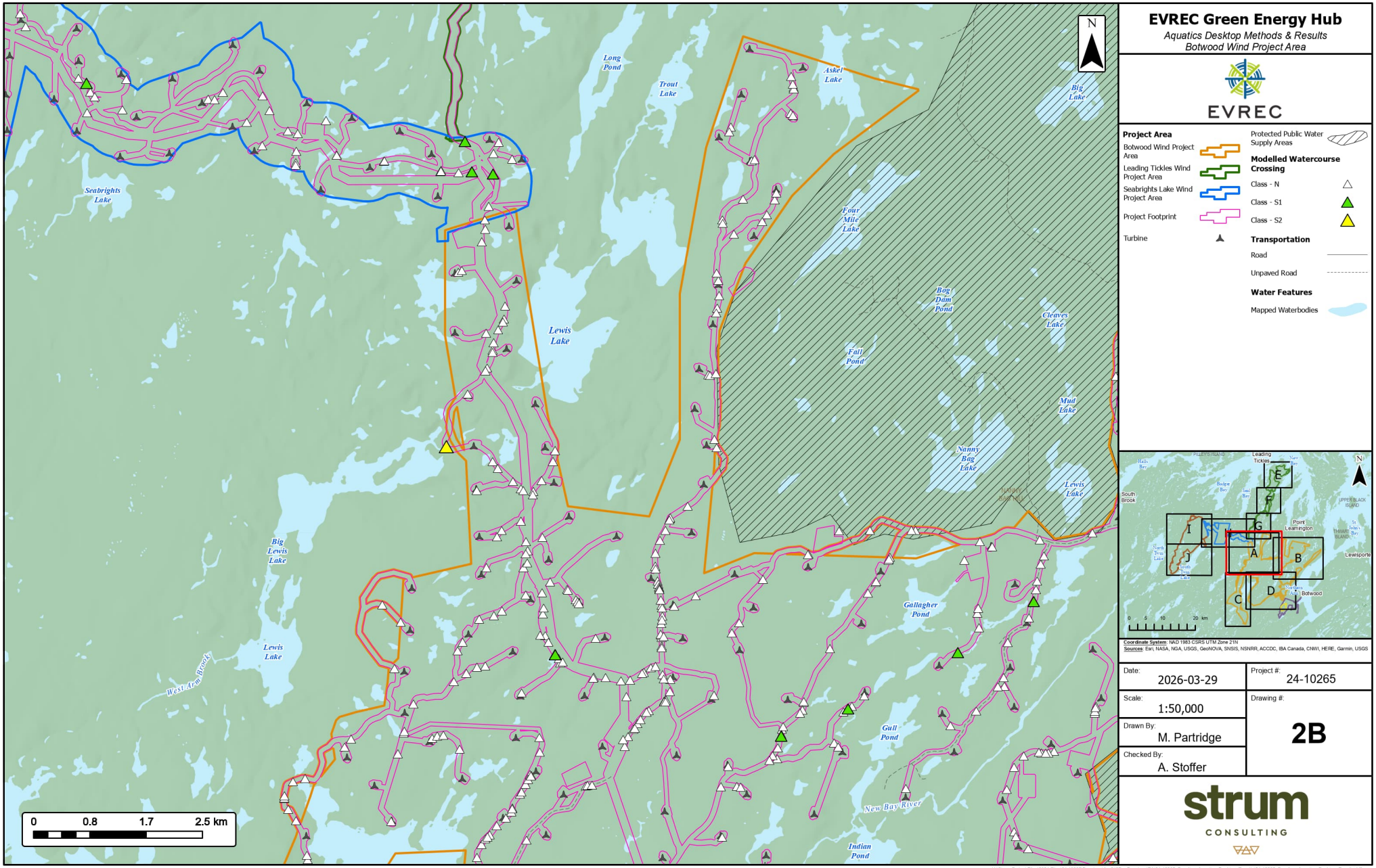

EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Botwood Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Turbine
- Protected Public Water Supply Areas

Modelled Watercourse Crossing

- Class - N
- Class - S1
- Class - S2

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

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Checked By: A. Stoffer	

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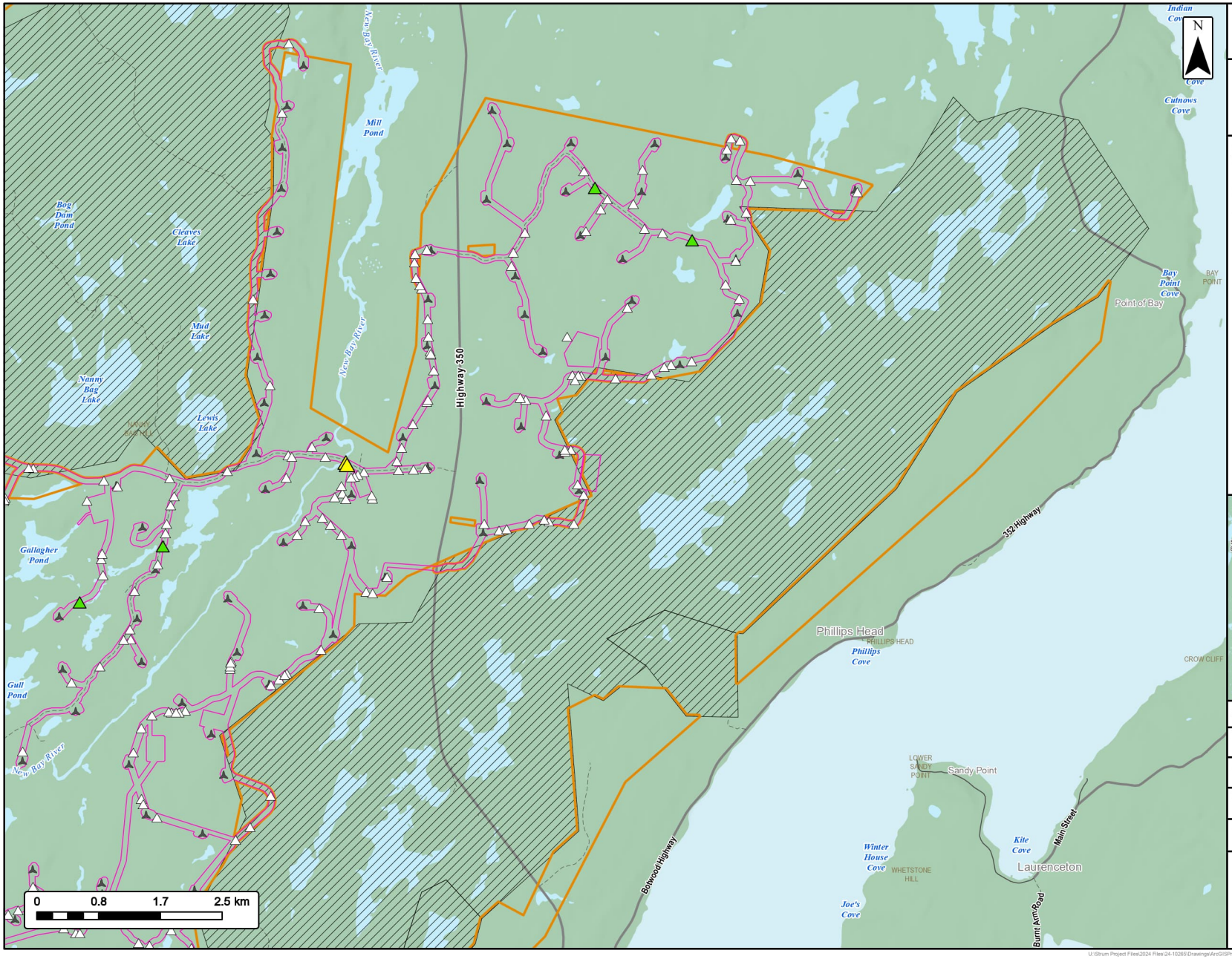


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Botwood Wind Project Area

EVREC

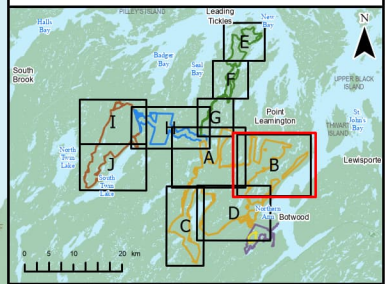
Project Area
- Botwood Wind Project Area
- Project Footprint
- Turbine

- Protected Public Water Supply Areas

Modelled Watercourse Crossing
- Class - N
- Class - S1
- Class - S2

Transportation
- Highway
- Road
- Unpaved Road

Water Features
- Mapped Waterbodies



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Checked By: A. Stoffer	

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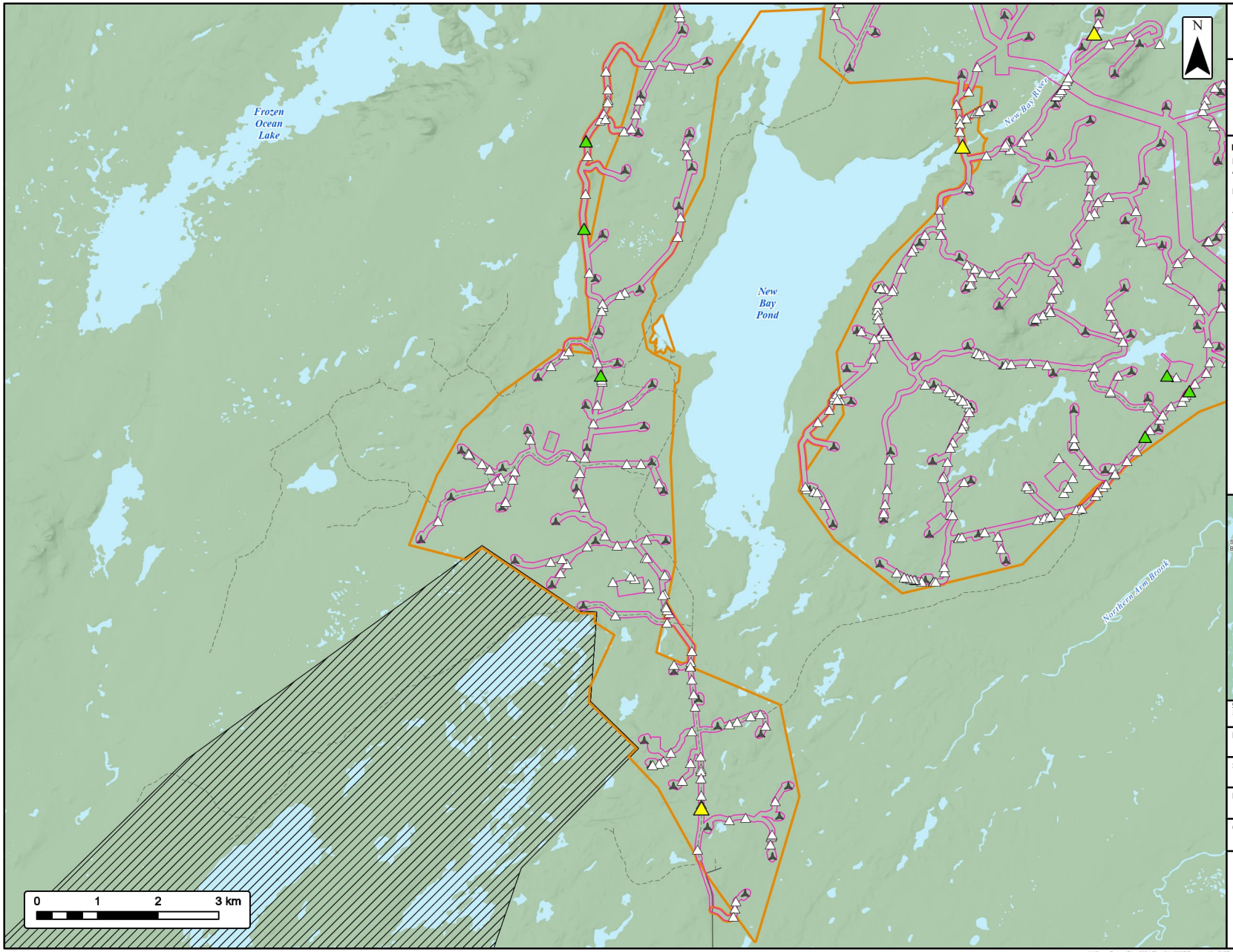


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Botwood Wind Project Area

EVREC

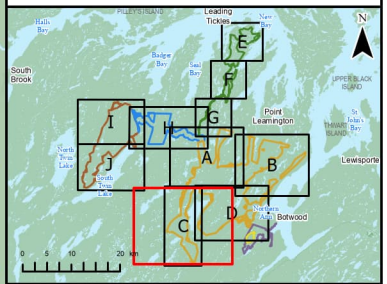
Project Area
- Botwood Wind Project Area
- Project Footprint
- Turbine

- Protected Public Water Supply Areas

Modelled Watercourse Crossing
- Class - N
- Class - S1
- Class - S2

Transportation
- Road
- Unpaved Road

Water Features
- Mapped Waterbodies



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Checked By: A. Stoffer	

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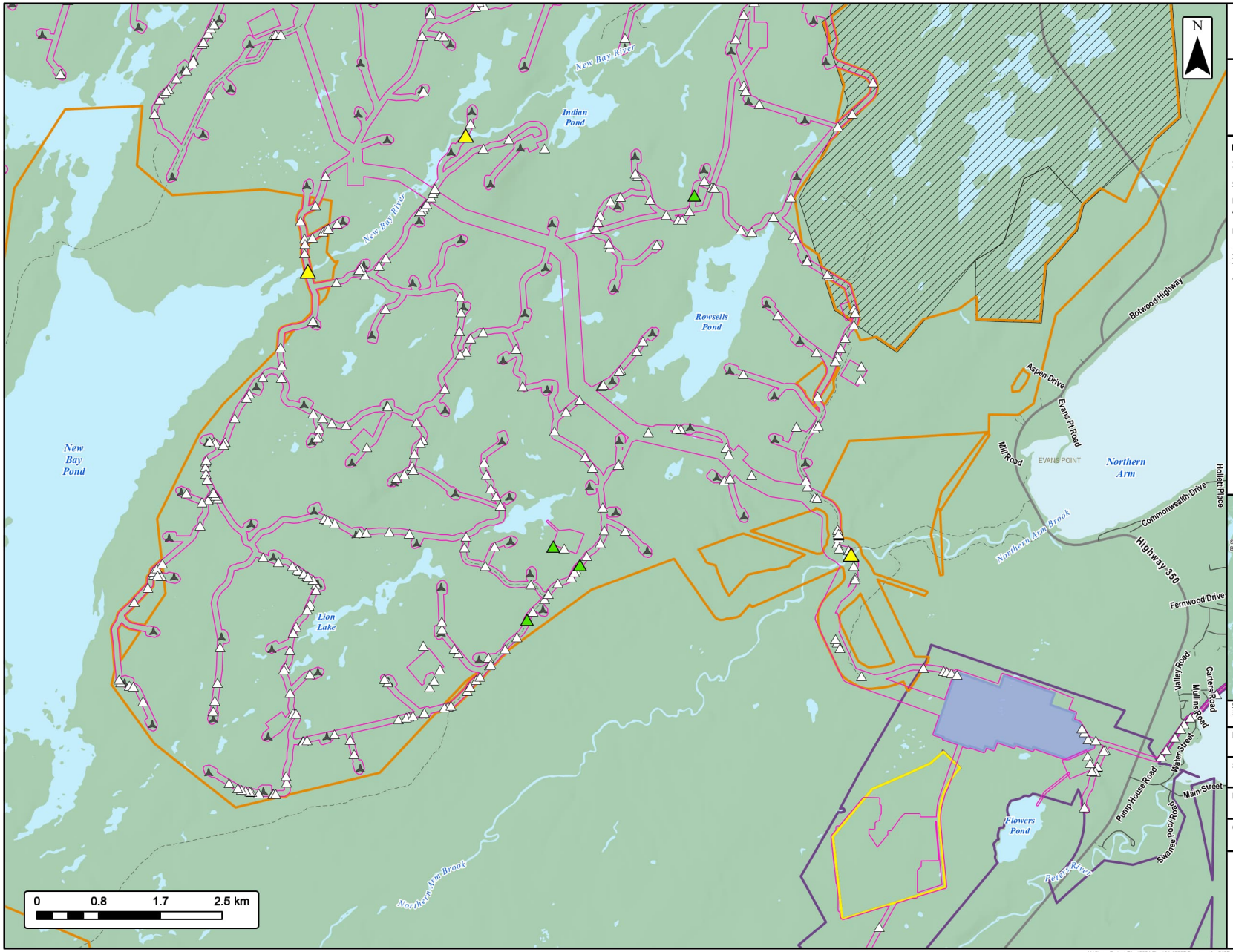


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Botwood Wind Project Area

EVREC

Project Area

- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Project Footprint
- Industrial Facility Infrastructure Area
- Turbine
- Protected Public Water Supply Areas

Modelled Watercourse Crossing

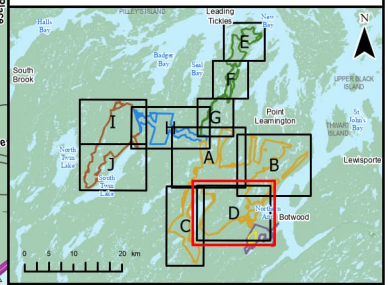
- Class - N
- Class - S1
- Class - S2

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Waterbodies



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Drawn By: M. Partridge	
Checked By: A. Stoffer	

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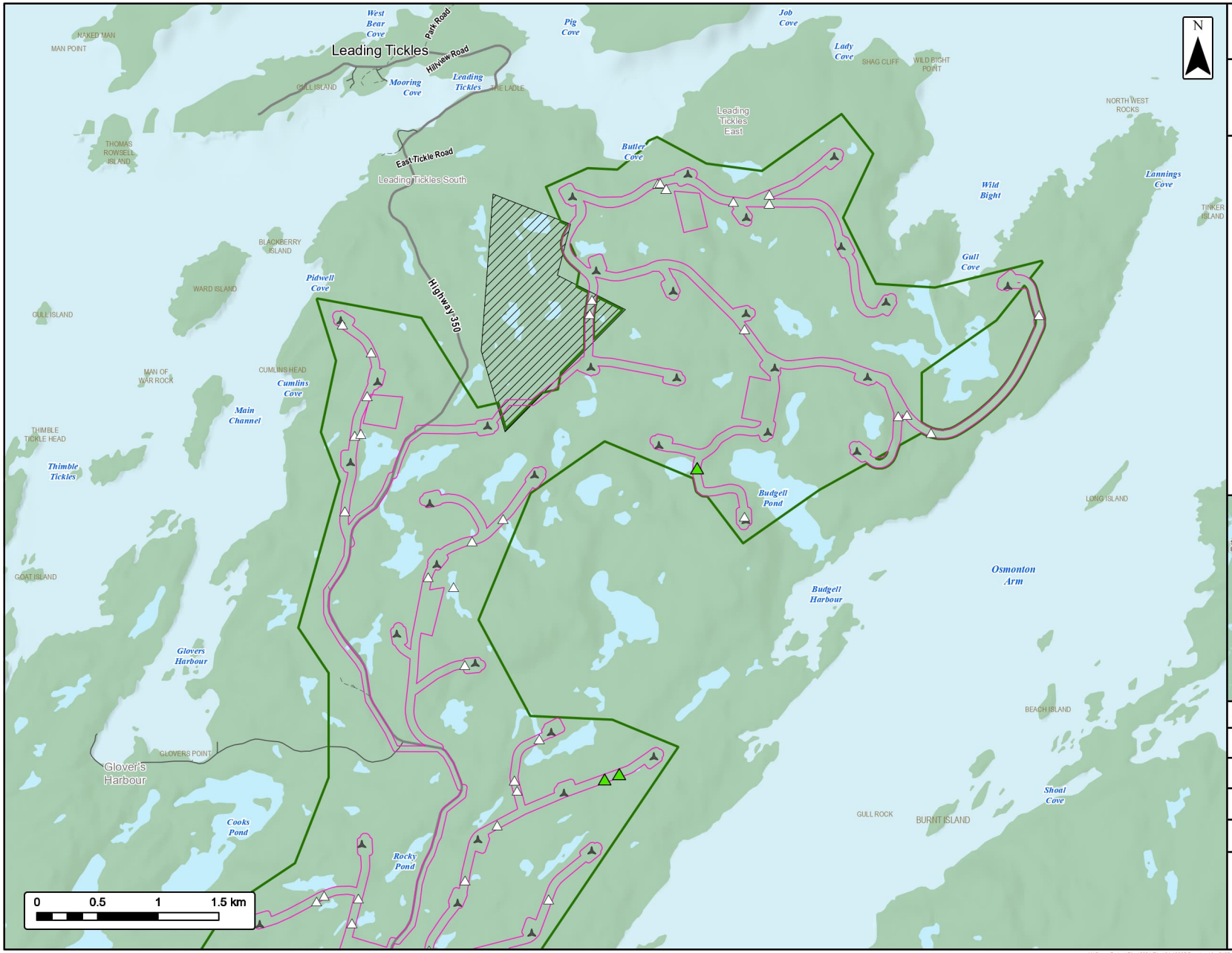


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Leading Tickles Wind Project Area

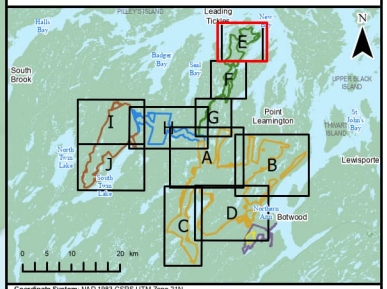
EVREC

Project Area
- Leading Tickles Wind Project Area
- Project Footprint
- Turbine

Modelled Watercourse Crossing
- Class - N
- Class - S1

Transportation
- Highway
- Road
- Unpaved Road

Water Features
- Protected Public Water Supply Areas
- Mapped Waterbodies



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Checked By: A. Stoffer	

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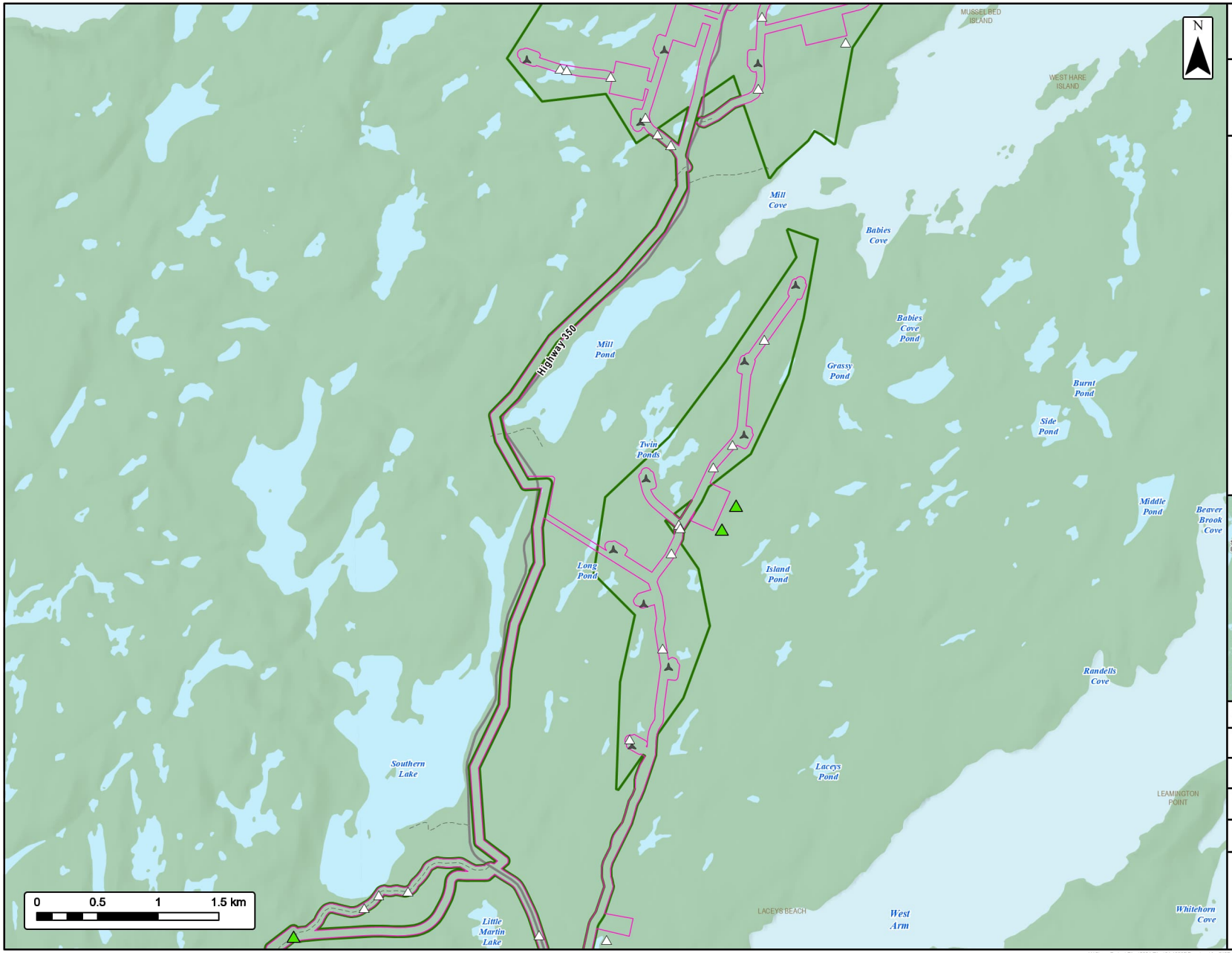


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Leading Tickles Wind Project Area

EVREC

Project Area

- Leading Tickles Wind Project Area
- Project Footprint
- Turbine

Modelled Watercourse Crossing

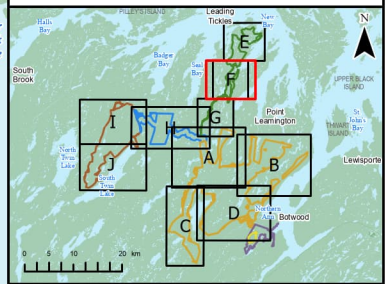
- Class - N
- Class - S1

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Waterbodies



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Checked By: A. Stoffer	

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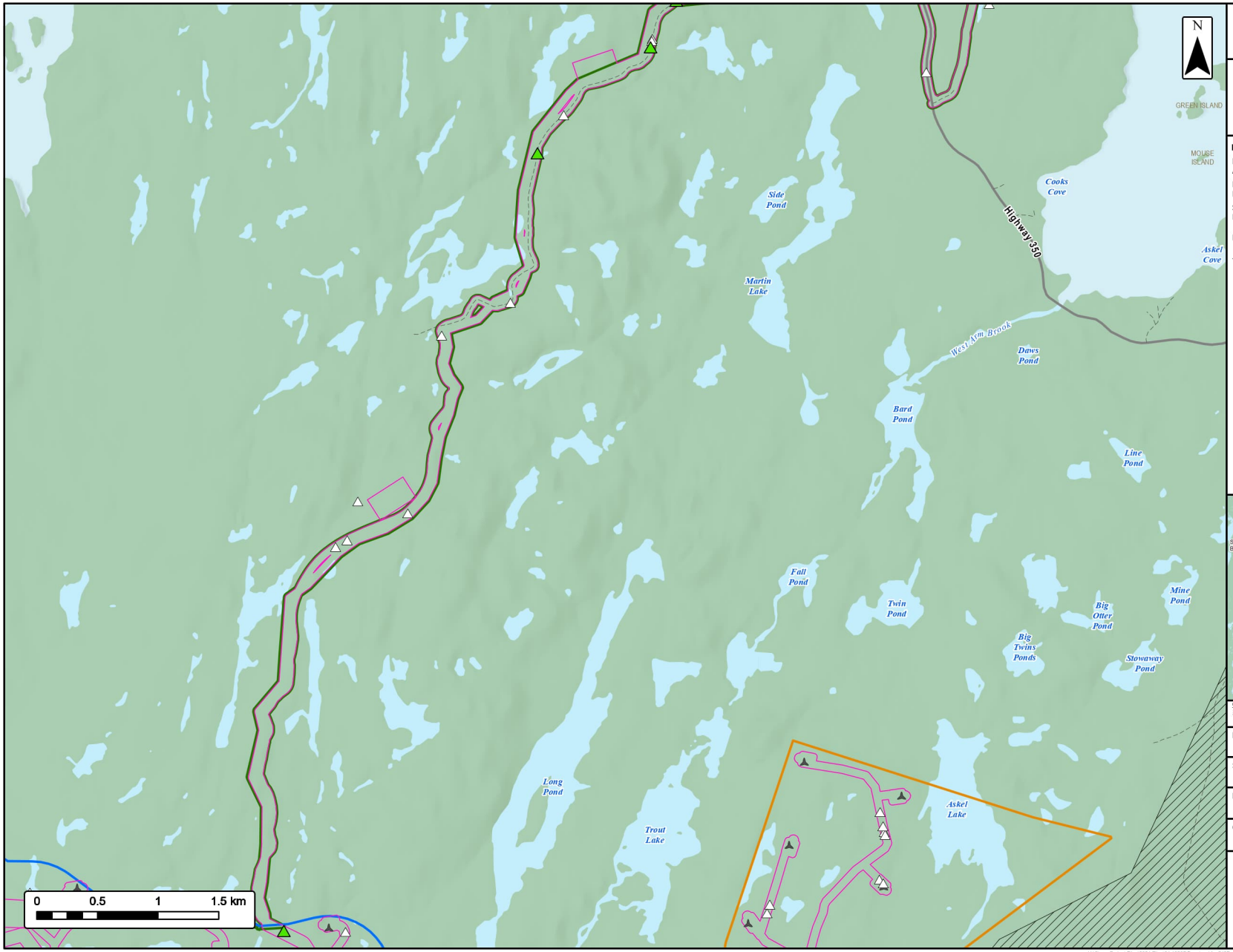


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Leading Tickles Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Turbine
- Protected Public Water Supply Areas

Modelled Watercourse Crossing

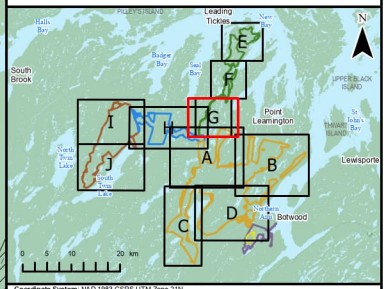
- Class - N
- Class - S1

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Waterbodies



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Date: 2026-03-29	Project #: 24-10265
Scale: 1:30,000	Drawing #: 2H
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Checked By: A. Stoffer	

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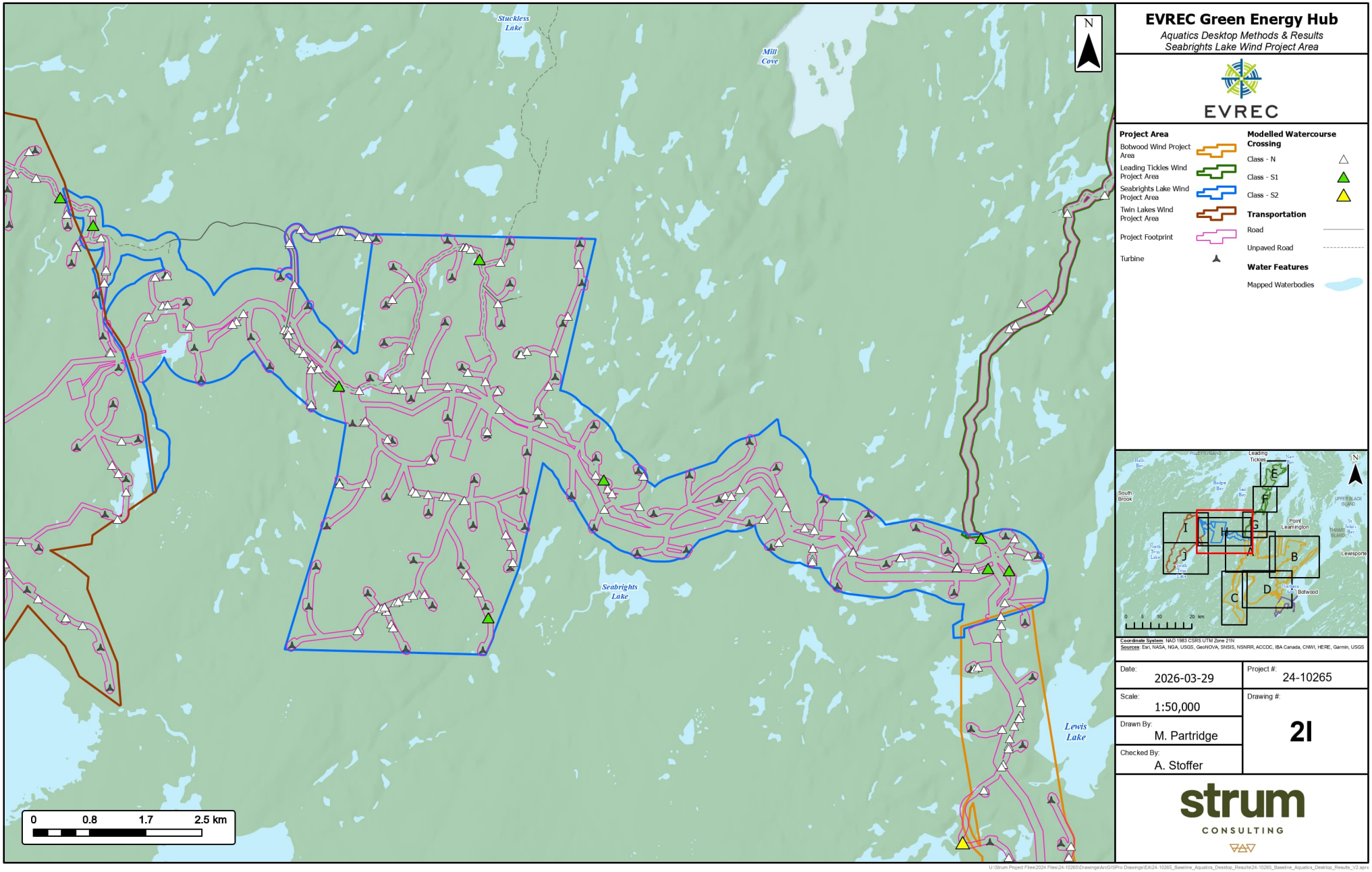

EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Seabrights Lake Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Turbine

Modelled Watercourse Crossing

- Class - N
- Class - S1
- Class - S2

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-29	Project #: 24-10265
Scale: 1:50,000	Drawing #: 2I
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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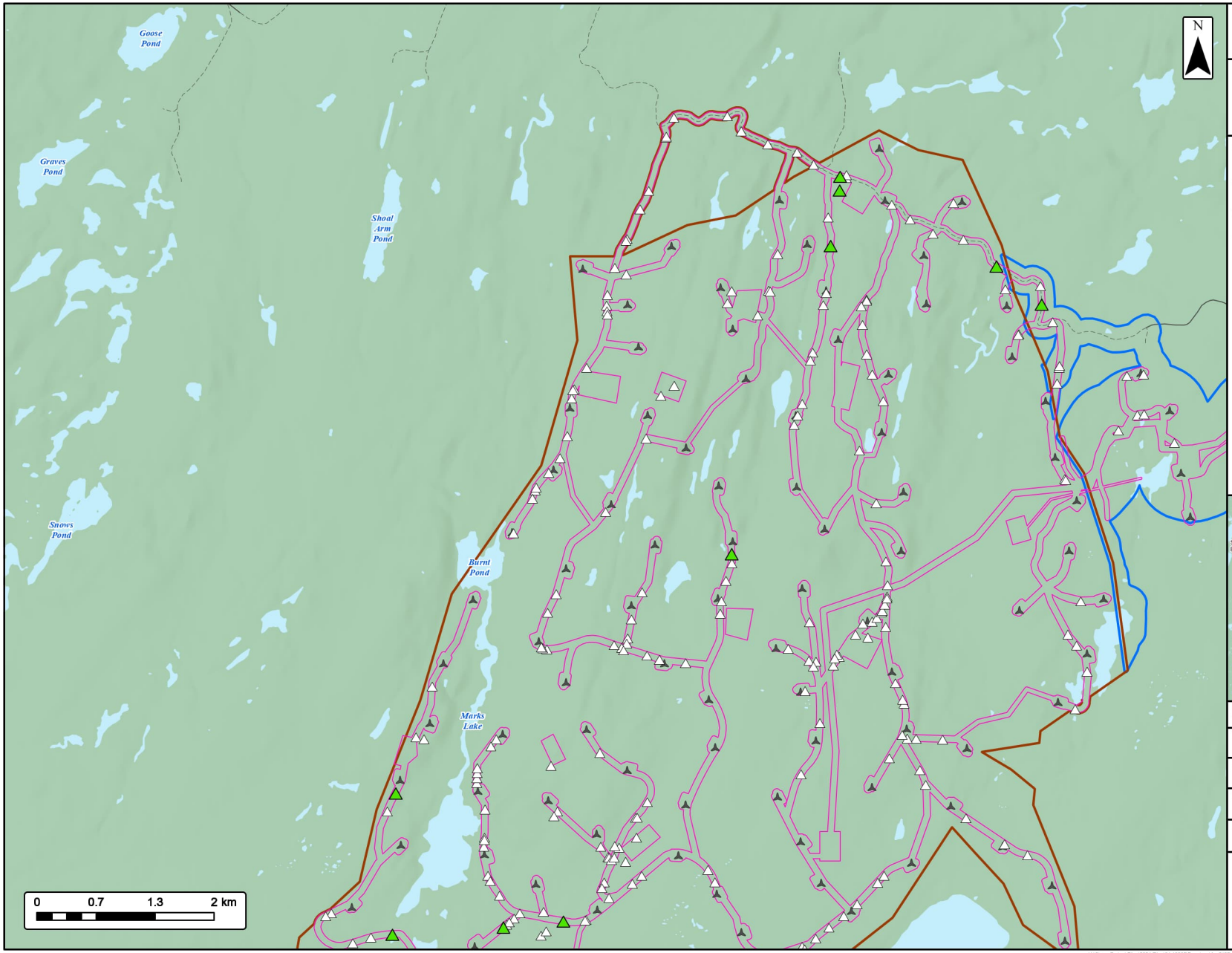


EVREC Green Energy Hub

Aquatics Desktop Methods & Results
Twin Lake Wind Project Area

EVREC

Project Area

- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Turbine

Modelled Watercourse Crossing

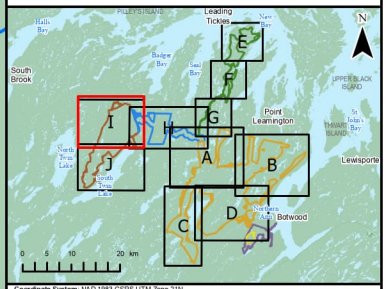
- Class - N
- Class - S1

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-29	Project #: 24-10265
Scale: 1:40,000	Drawing #: 2J
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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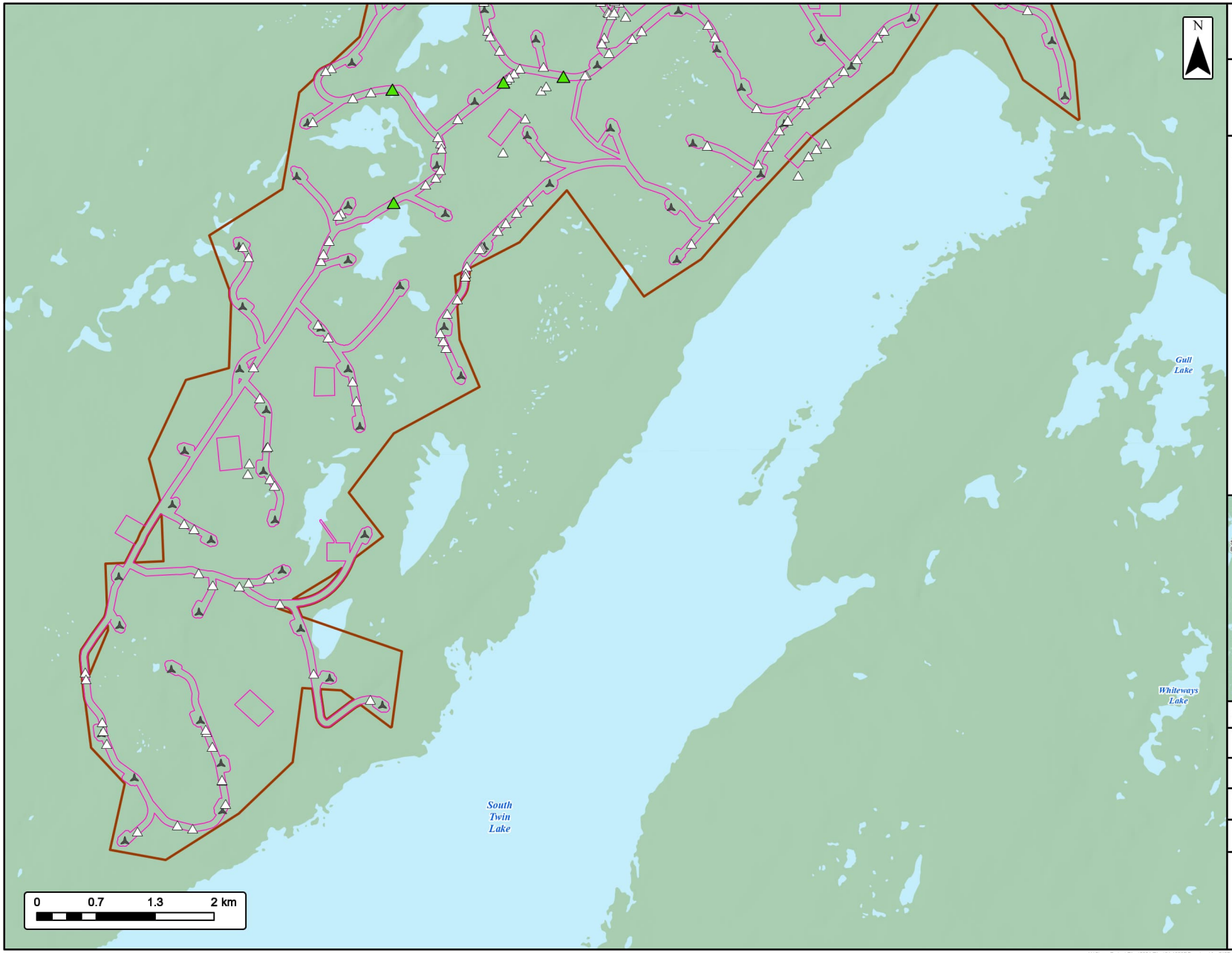


EVREC Green Energy Hub

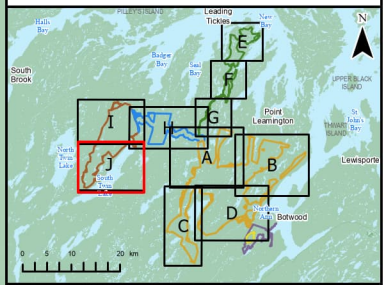
Aquatics Desktop Methods & Results
Twin Lake Wind Project Area

EVREC

Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Turbine

Modelled Watercourse Crossing
- Class - N
- Class - S1

Water Features
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
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Date: 2026-03-29	Project #: 24-10265
Scale: 1:40,000	Drawing #: **2K**
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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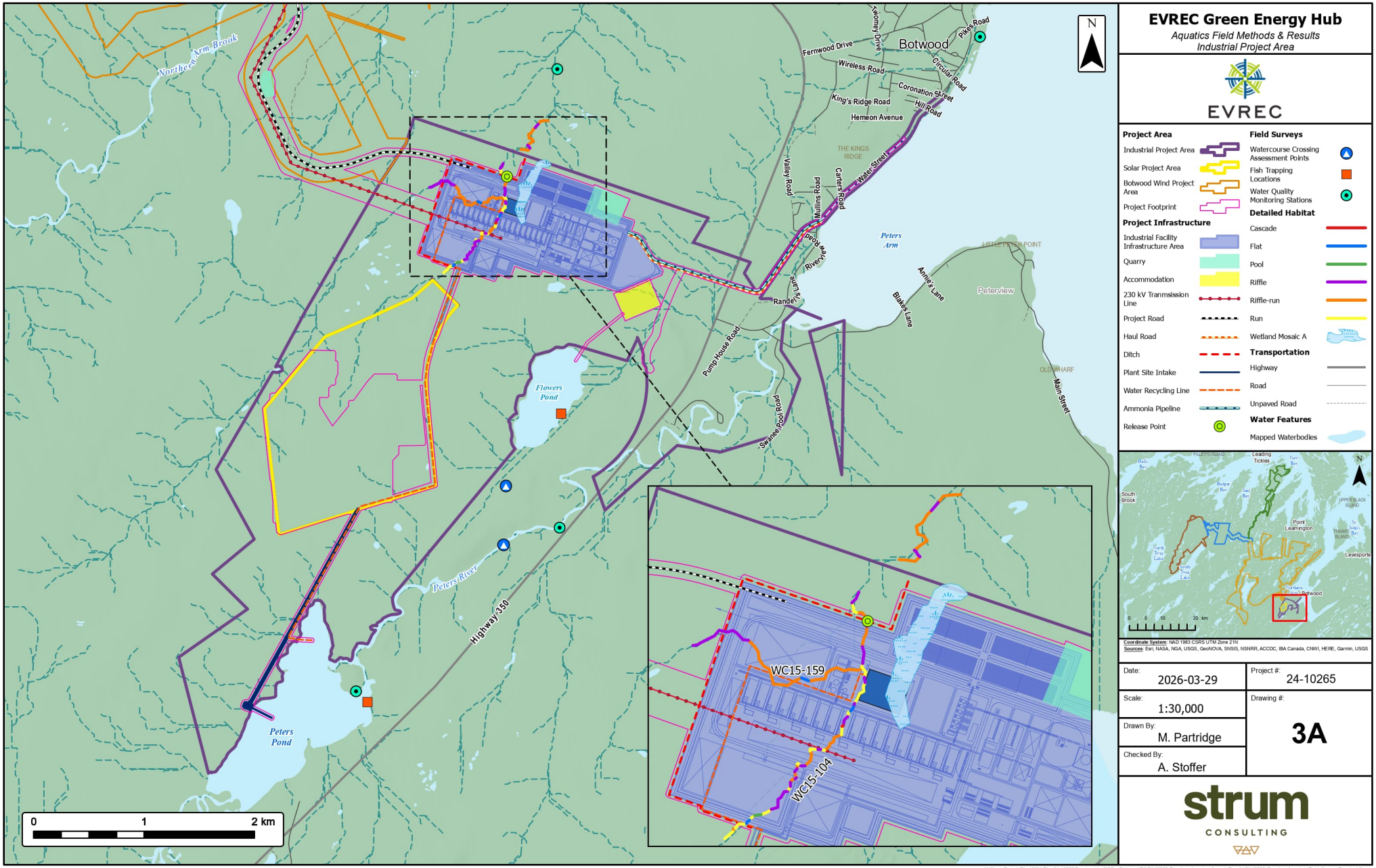

EVREC Green Energy Hub

Aquatics Field Methods & Results
Industrial Project Area

EVREC

Project Area
- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Project Footprint

Project Infrastructure
- Industrial Facility Infrastructure Area
- Quarry
- Accommodation
- 230 kV Tranmission Line
- Project Road
- Haul Road
- Ditch
- Plant Site Intake
- Water Recycling Line
- Ammonia Pipeline
- Release Point

Field Surveys
- Watercourse Crossing Assessment Points
- Fish Trapping Locations
- Water Quality Monitoring Stations

Detailed Habitat
- Cascade
- Flat
- Pool
- Riffle
- Riffle-run
- Run
- Wetland Mosaic A

Transportation
- Highway
- Road
- Unpaved Road

Water Features
- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-29	Project #: 24-10265
Scale: 1:30,000	Drawing #: 3A
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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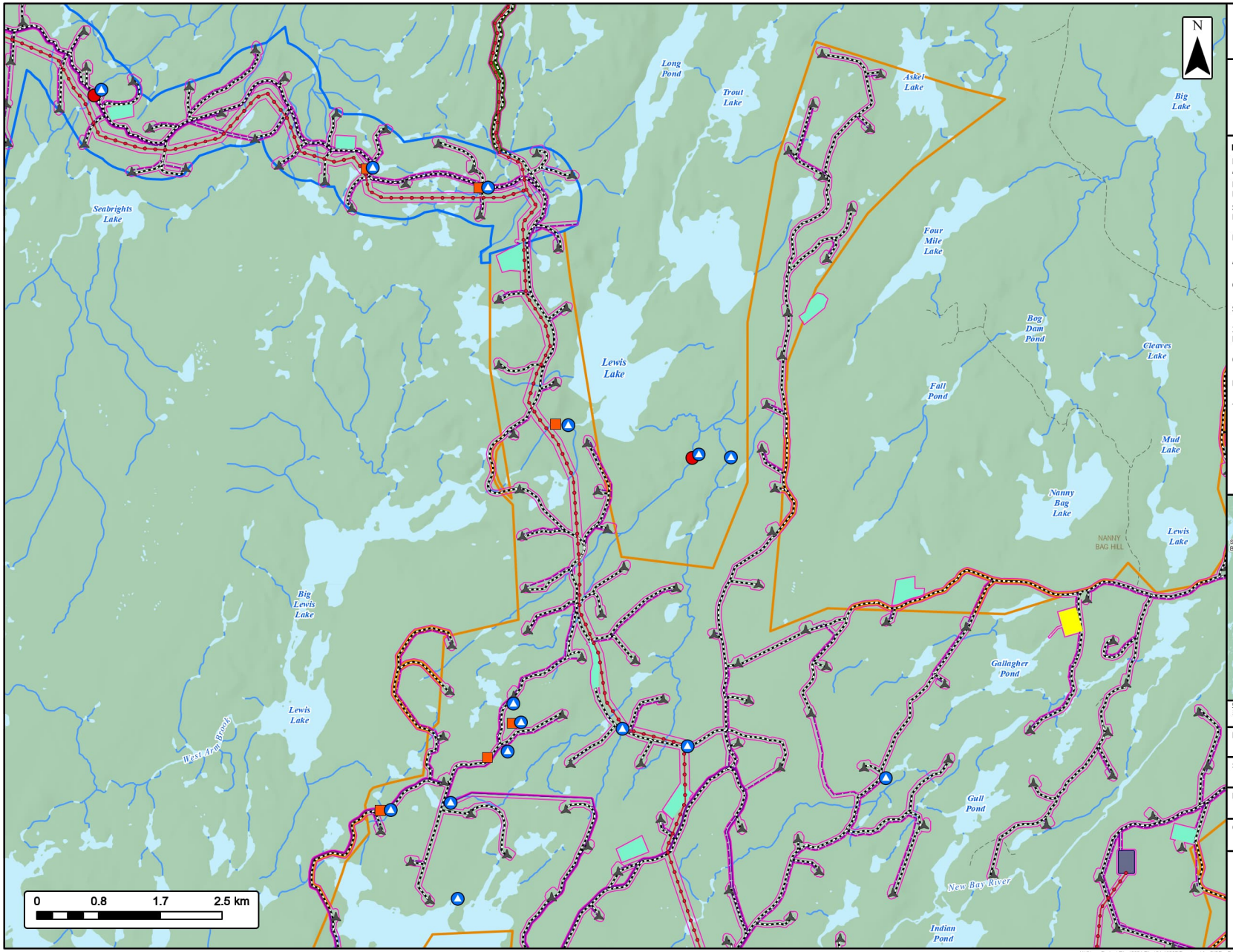


EVREC Green Energy Hub

Aquatics Field Methods & Results
Botwood Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

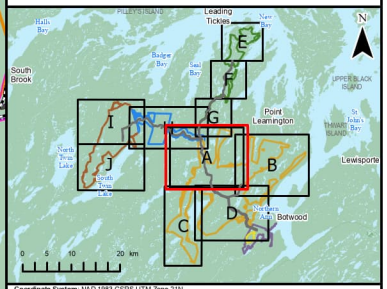
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:50,000	Drawing #: 3B
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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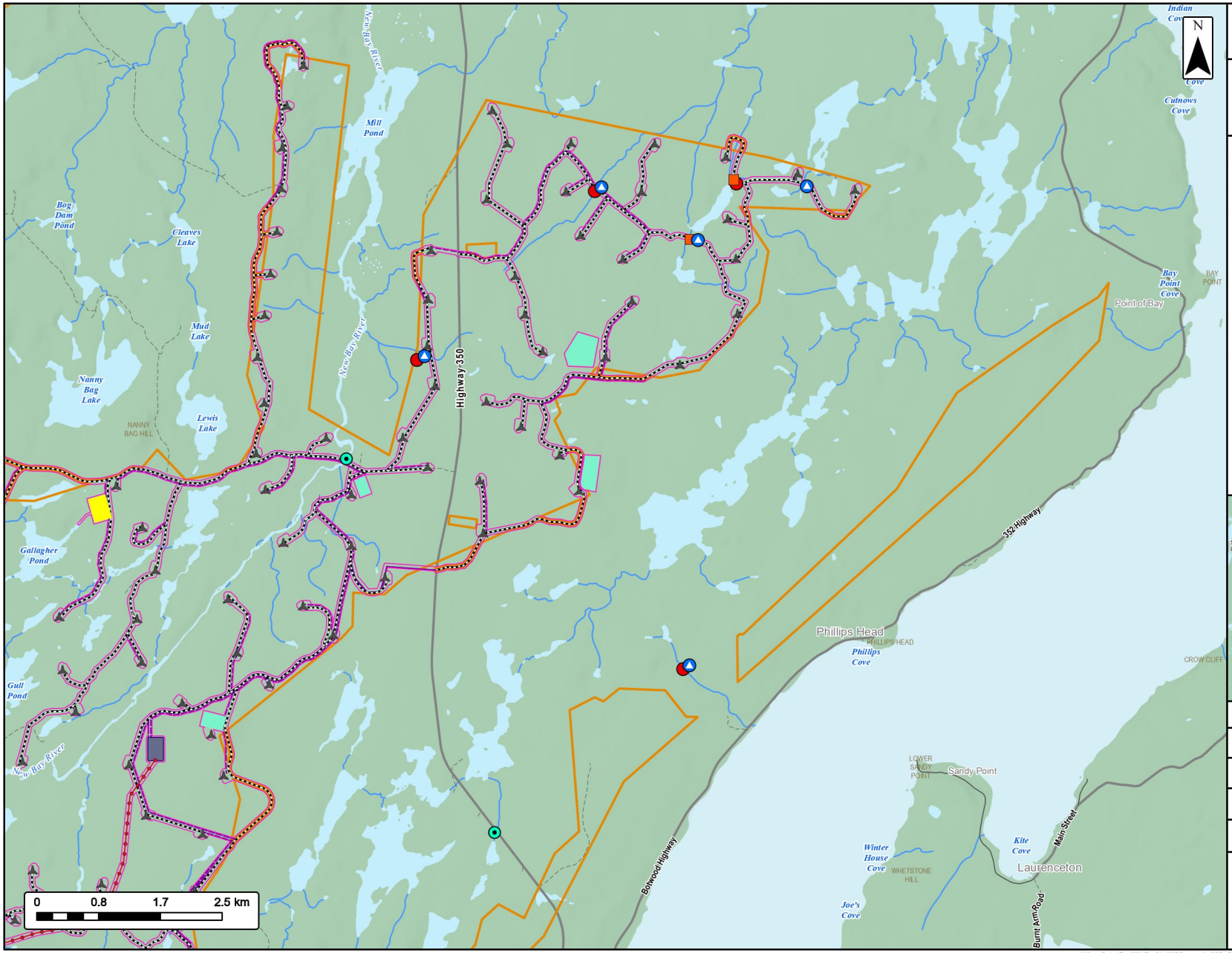


EVREC Green Energy Hub

Aquatics Field Methods & Results
Botwood Wind Project Area

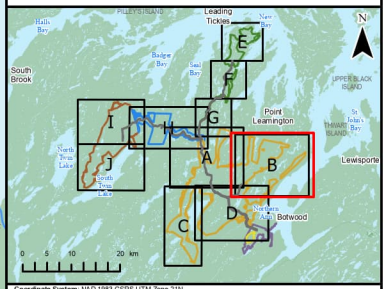
EVREC

Project Area
- Botwood Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey
- Water Quality Monitoring Stations

Transportation
- Highway
- Road
- Unpaved Road

Water Features
- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:50,000	Drawing #: 3C
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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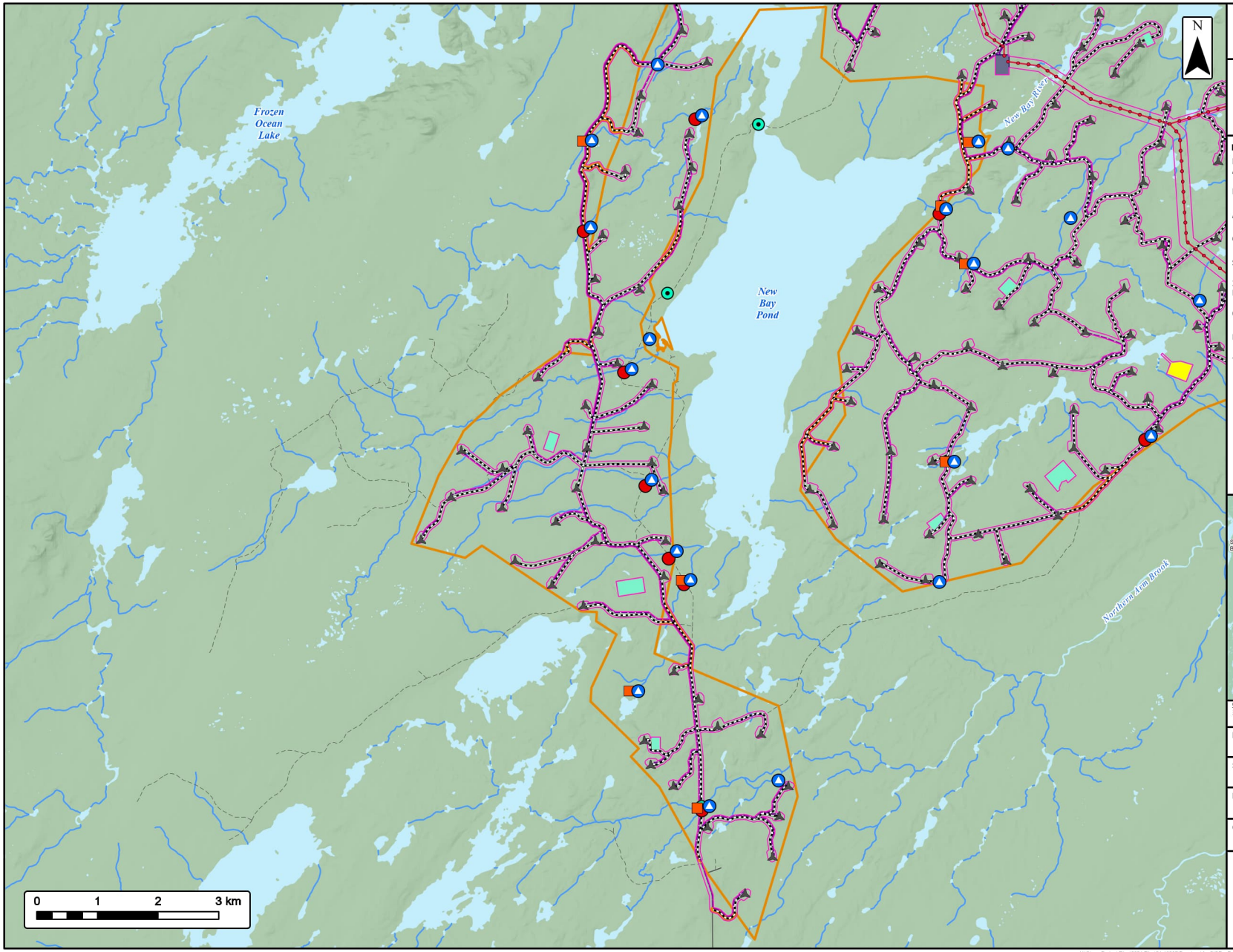


EVREC Green Energy Hub

Aquatics Field Methods & Results
Botwood Wind Project Area

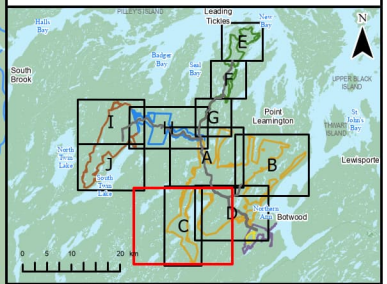
EVREC

Project Area
- Botwood Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey
- Water Quality Monitoring Stations

Transportation
- Road
- Unpaved Road

Water Features
- Mapped Watercourses
- Mapped Waterbodies



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Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:60,000	Drawing #: 3D
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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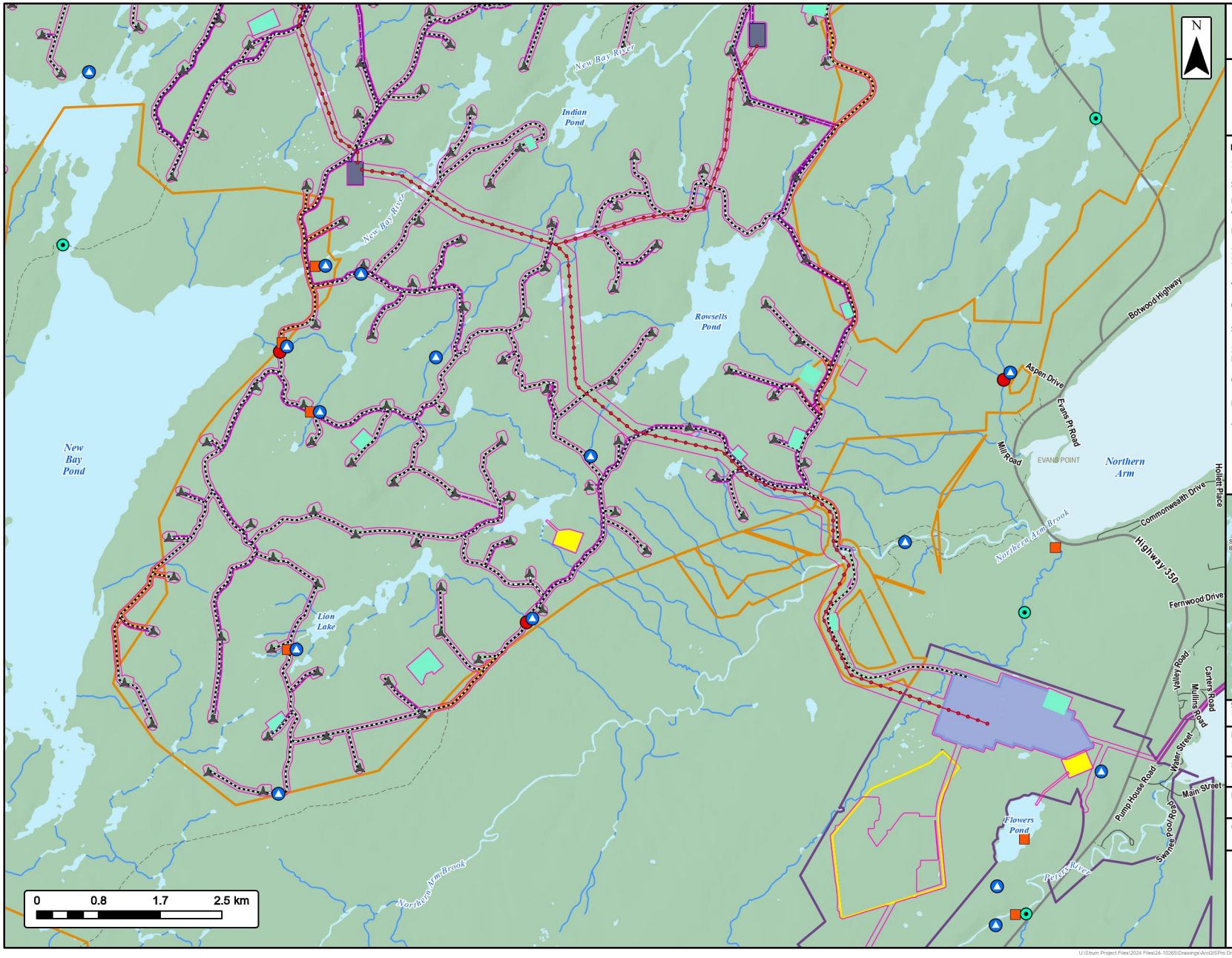


EVREC Green Energy Hub

Aquatics Field Methods & Results
Botwood Wind Project Area

EVREC

Project Area

- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Project Footprint
- Industrial Facility Infrastructure Area
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

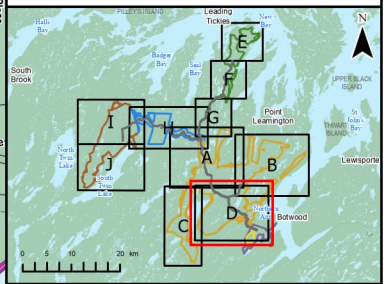
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey
- Water Quality Monitoring Stations

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:50,000	Drawing #: 3E
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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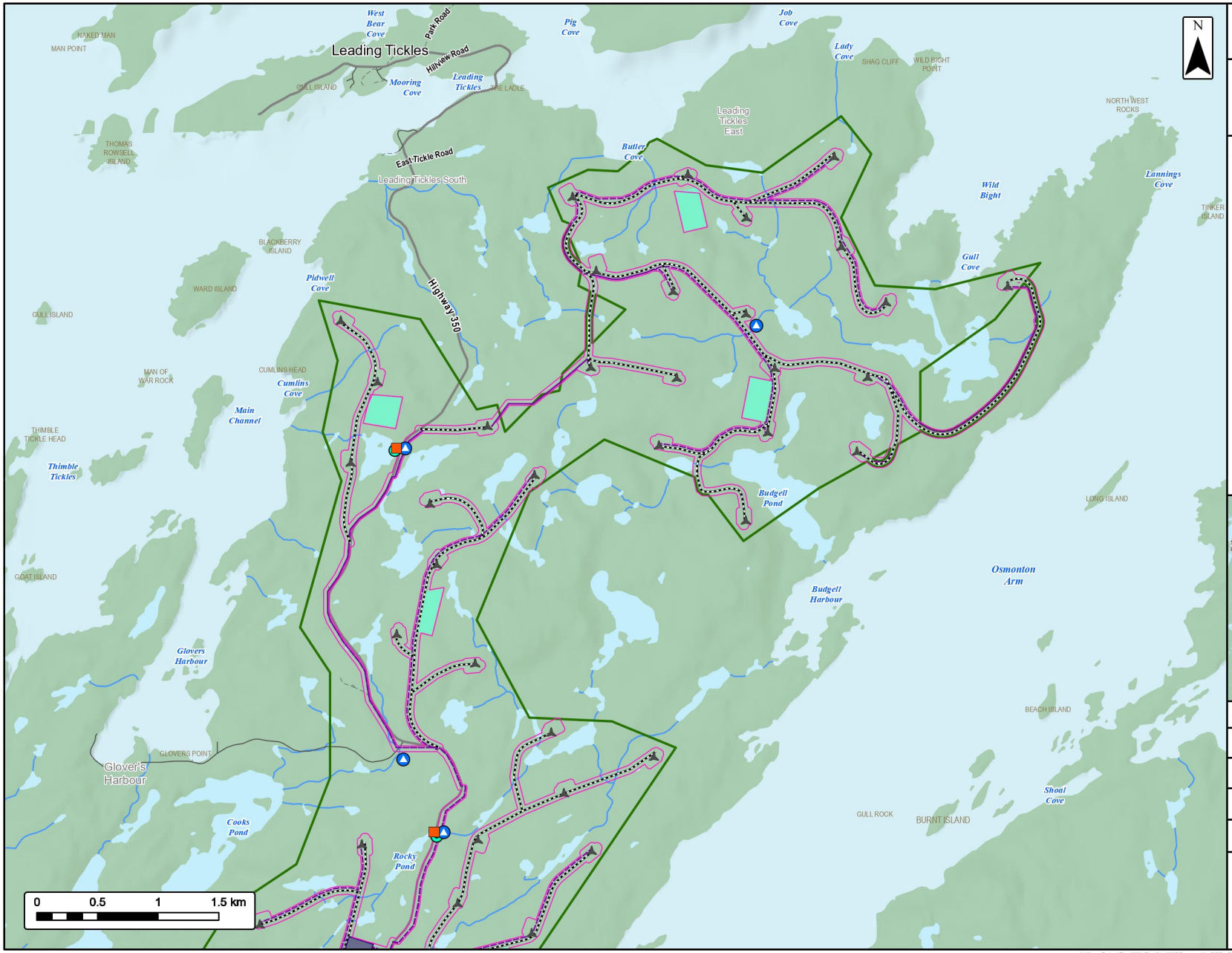


EVREC Green Energy Hub

Aquatics Field Methods & Results
Leading Tickles Wind Project Area

EVREC

Project Area

- Leading Tickles Wind Project Area
- Project Footprint
- Quarry
- Substation
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

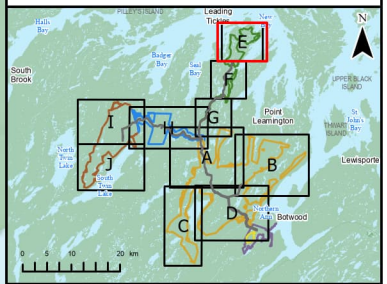
- Watercourse Crossing Assessment Points
- Water Quality Monitoring Stations

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



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Date: 2026-03-30	Project #: 24-10265
Scale: 1:30,000	Drawing #: 3F
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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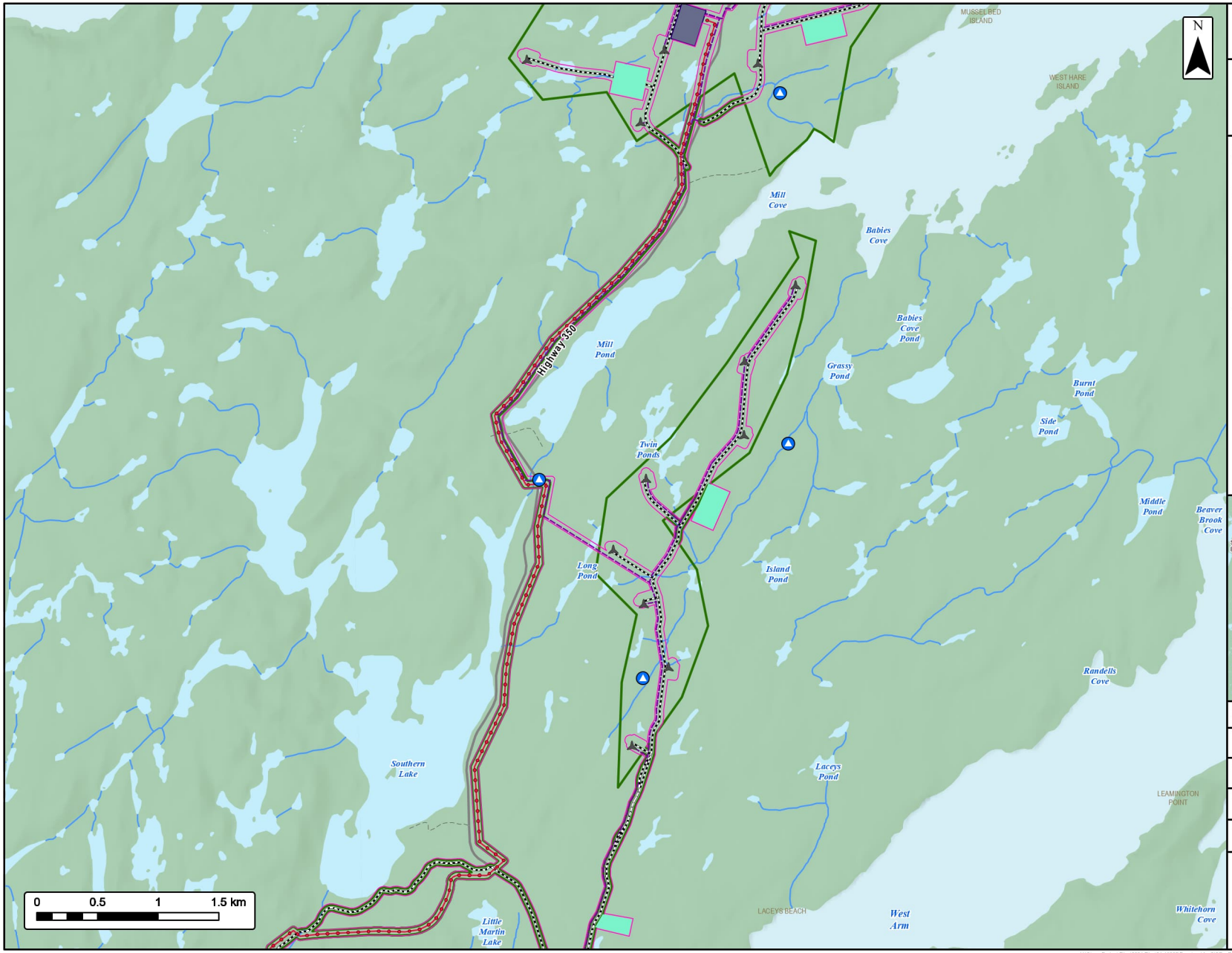


EVREC Green Energy Hub

Aquatics Field Methods & Results
Leading Tickles Wind Project Area

EVREC

Project Area

- Leading Tickles Wind Project Area
- Project Footprint
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

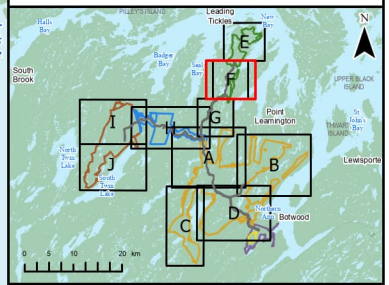
- Watercourse Crossing Assessment Points

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



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Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:30,000	Drawing #: 3G
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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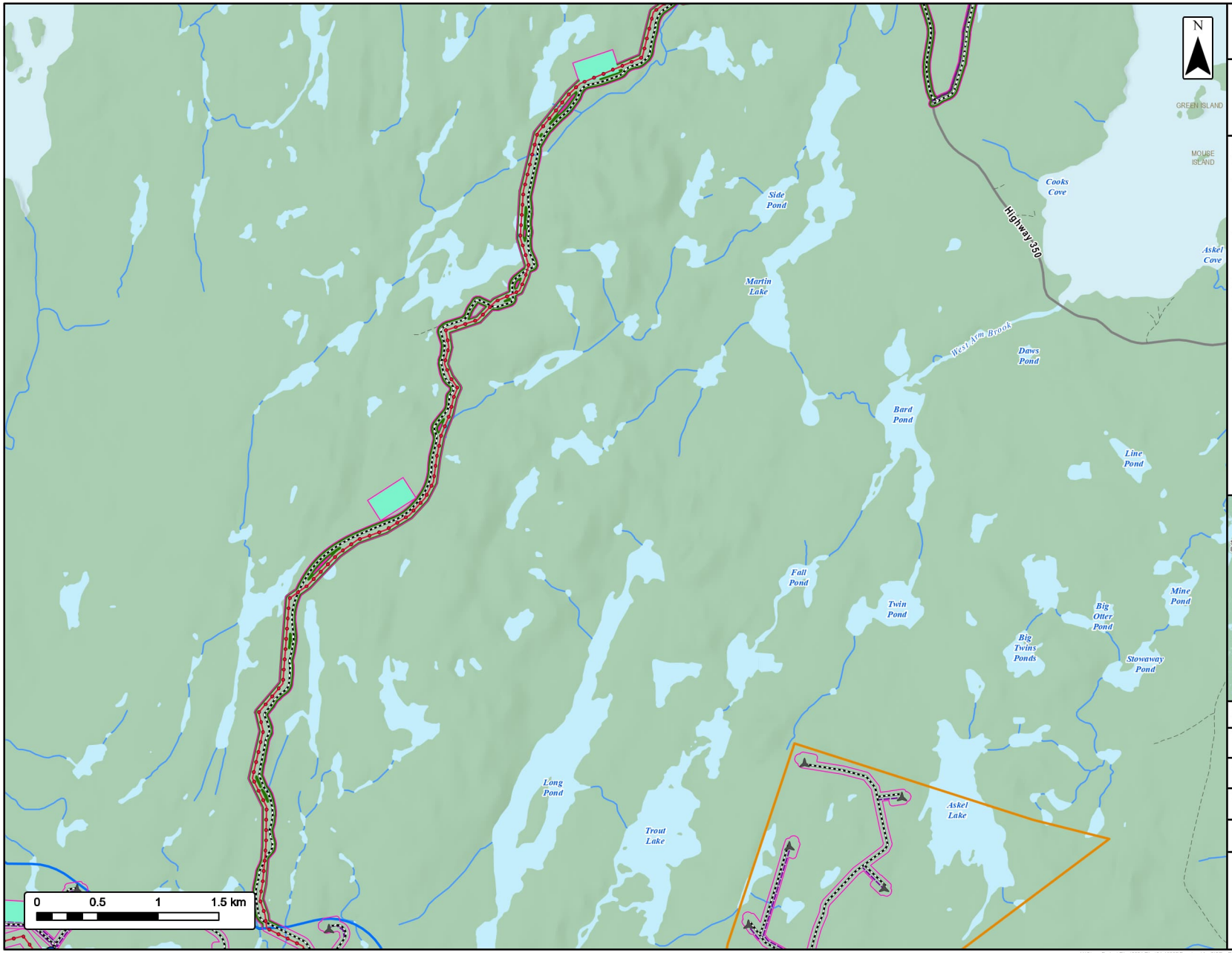


EVREC Green Energy Hub

Aquatics Field Methods & Results
Leading Tickles Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Quarry
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

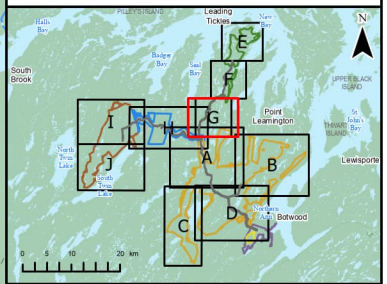
- Watercourse Crossing Assessment Points

Transportation

- Highway
- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:30,000	Drawing #: 3H
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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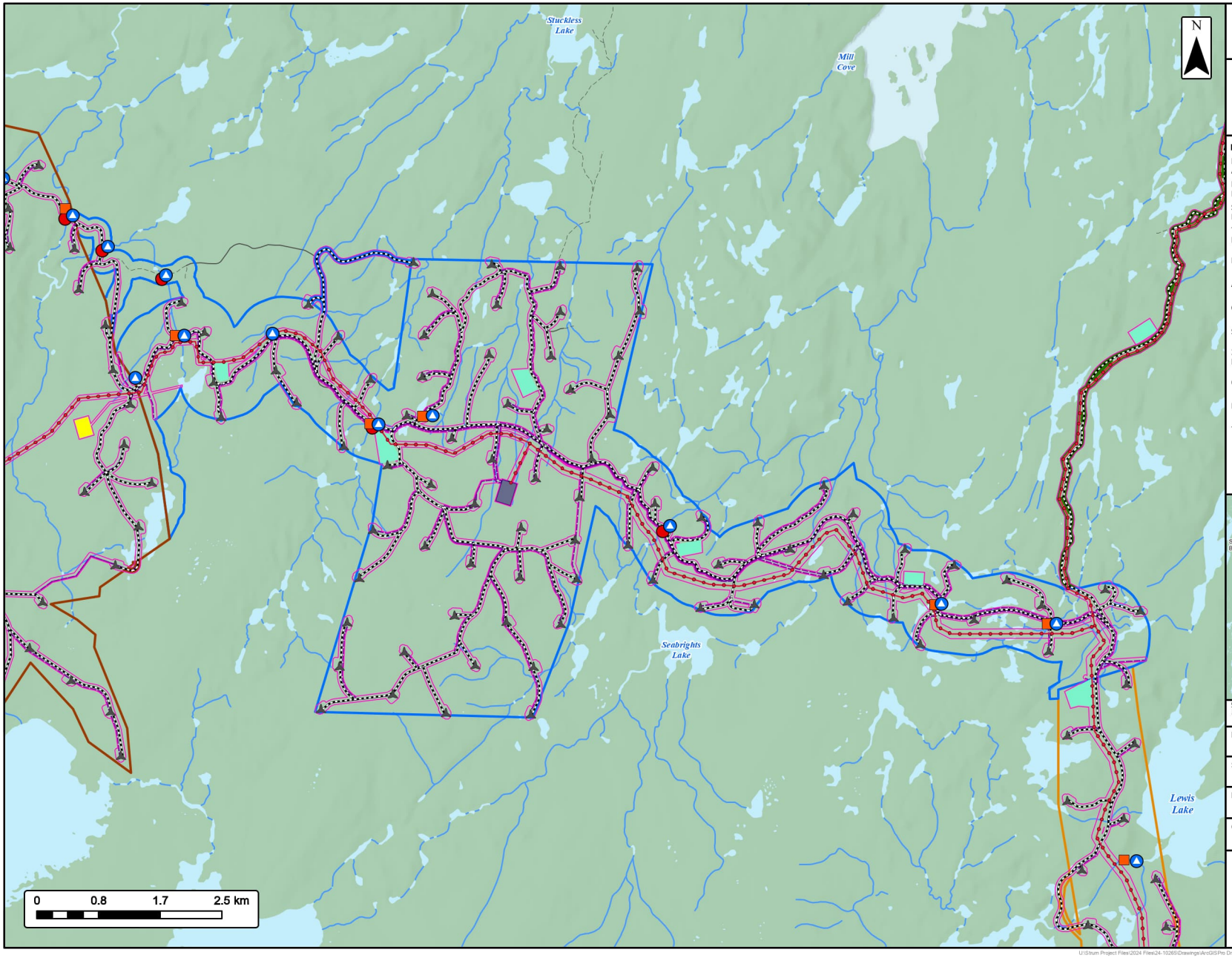


EVREC Green Energy Hub

Aquatics Field Methods & Results
Seabrights Lake Wind Project Area

EVREC

Project Area

- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

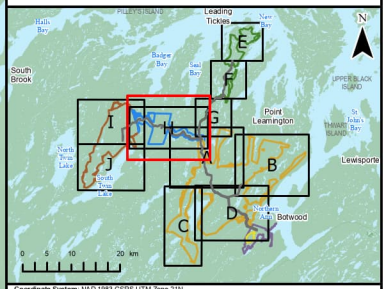
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:50,000	Drawing #: 3I
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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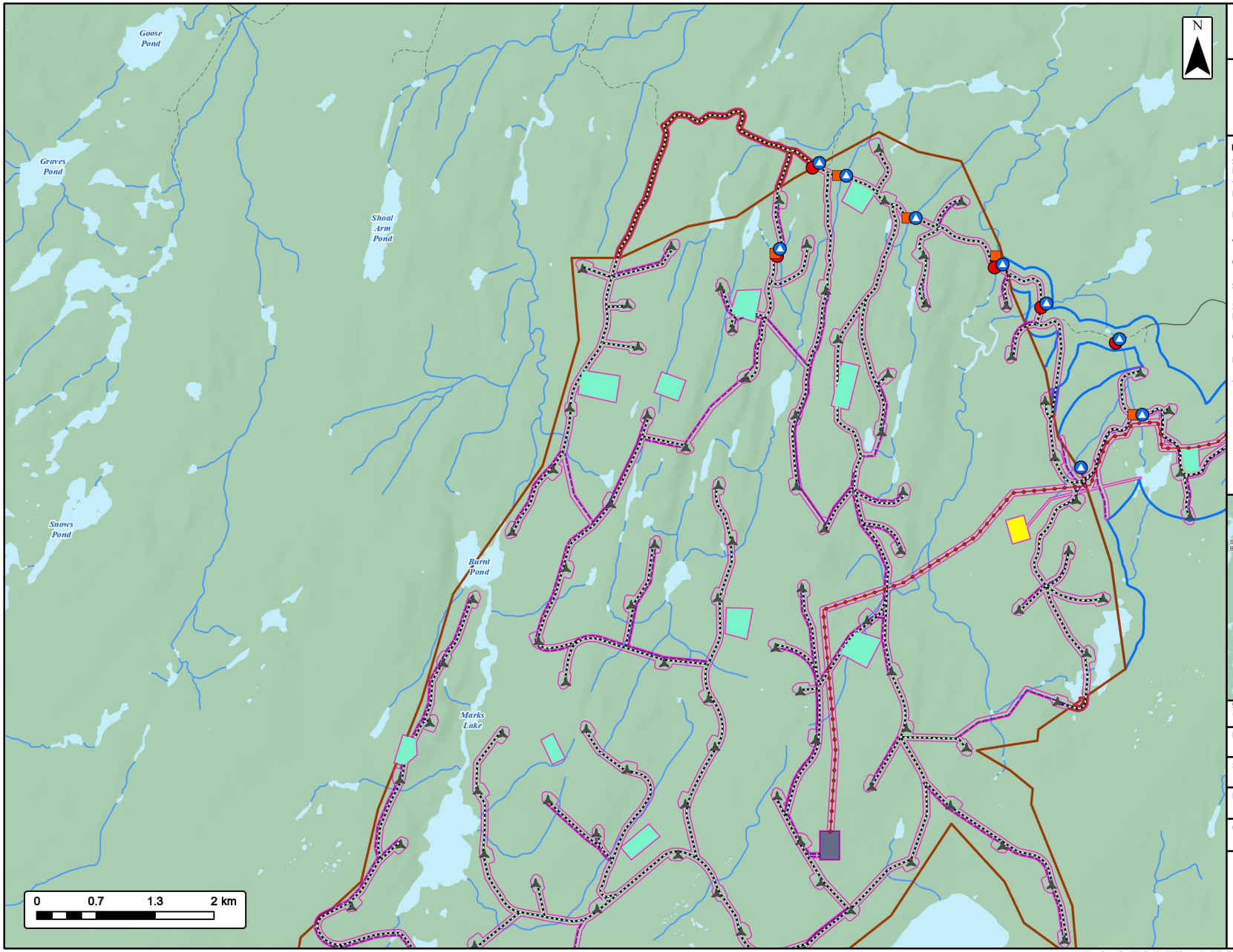


EVREC Green Energy Hub

Aquatics Field Methods & Results
Twin Lake Wind Project Area

EVREC

Project Area

- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

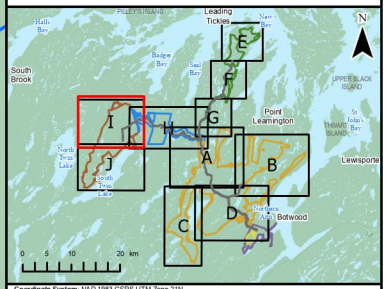
- Watercourse Crossing Assessment Points
- Trapping Survey
- E-Fishing Survey

Transportation

- Road
- Unpaved Road

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:40,000	Drawing #: 3J
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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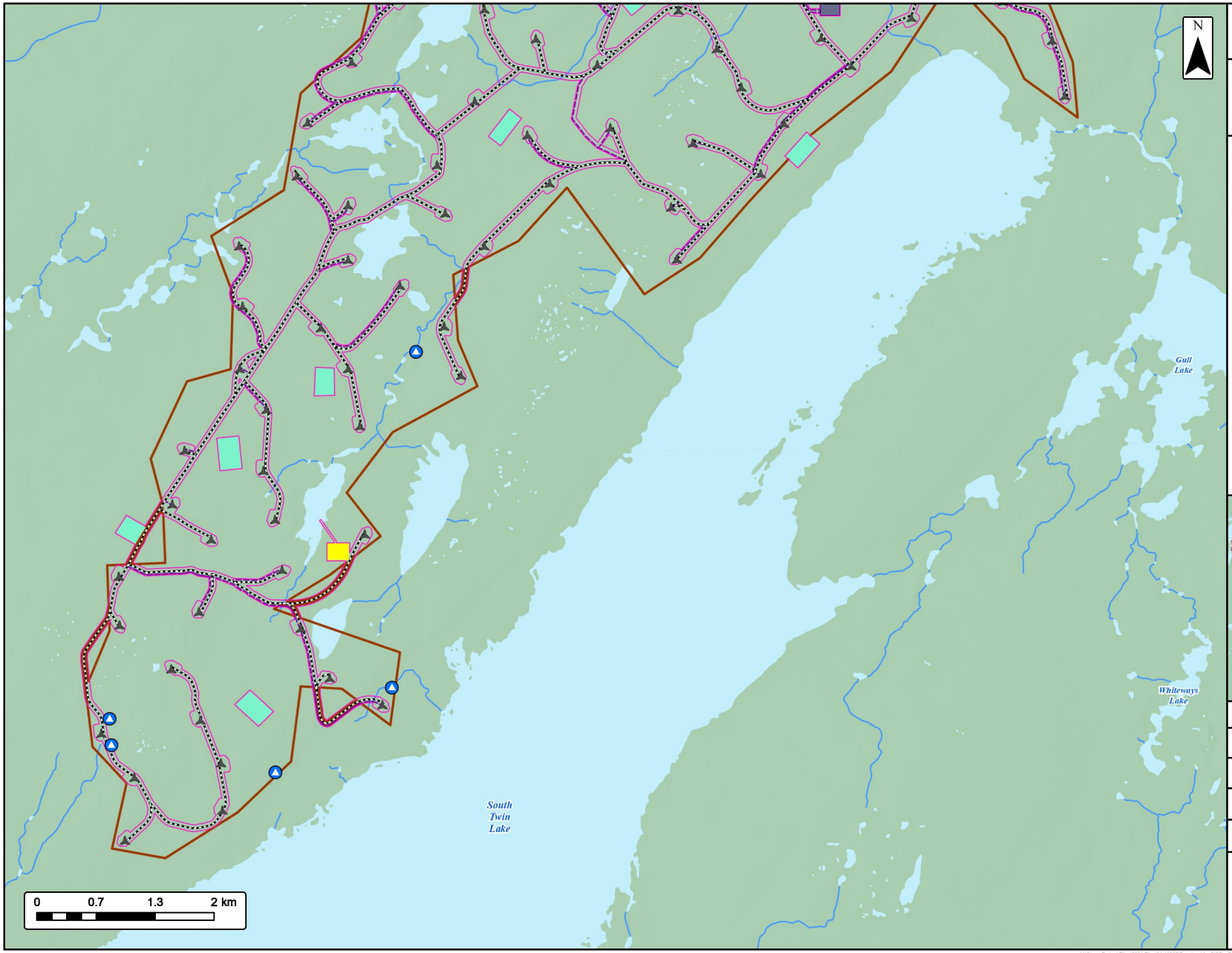


EVREC Green Energy Hub

Aquatics Field Methods & Results
Twin Lake Wind Project Area

EVREC

Project Area

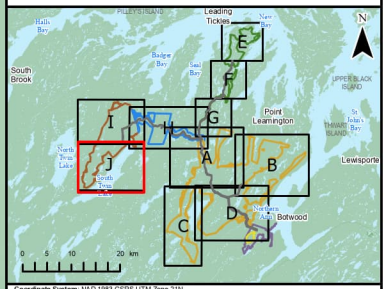
- Twin Lakes Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 69 kV Collector Line
- Project Road
- Turbine

Surveys

- Watercourse Crossing Assessment Points

Water Features

- Mapped Watercourses
- Mapped Waterbodies



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-30	Project #: 24-10265
Scale: 1:40,000	Drawing #: 3K
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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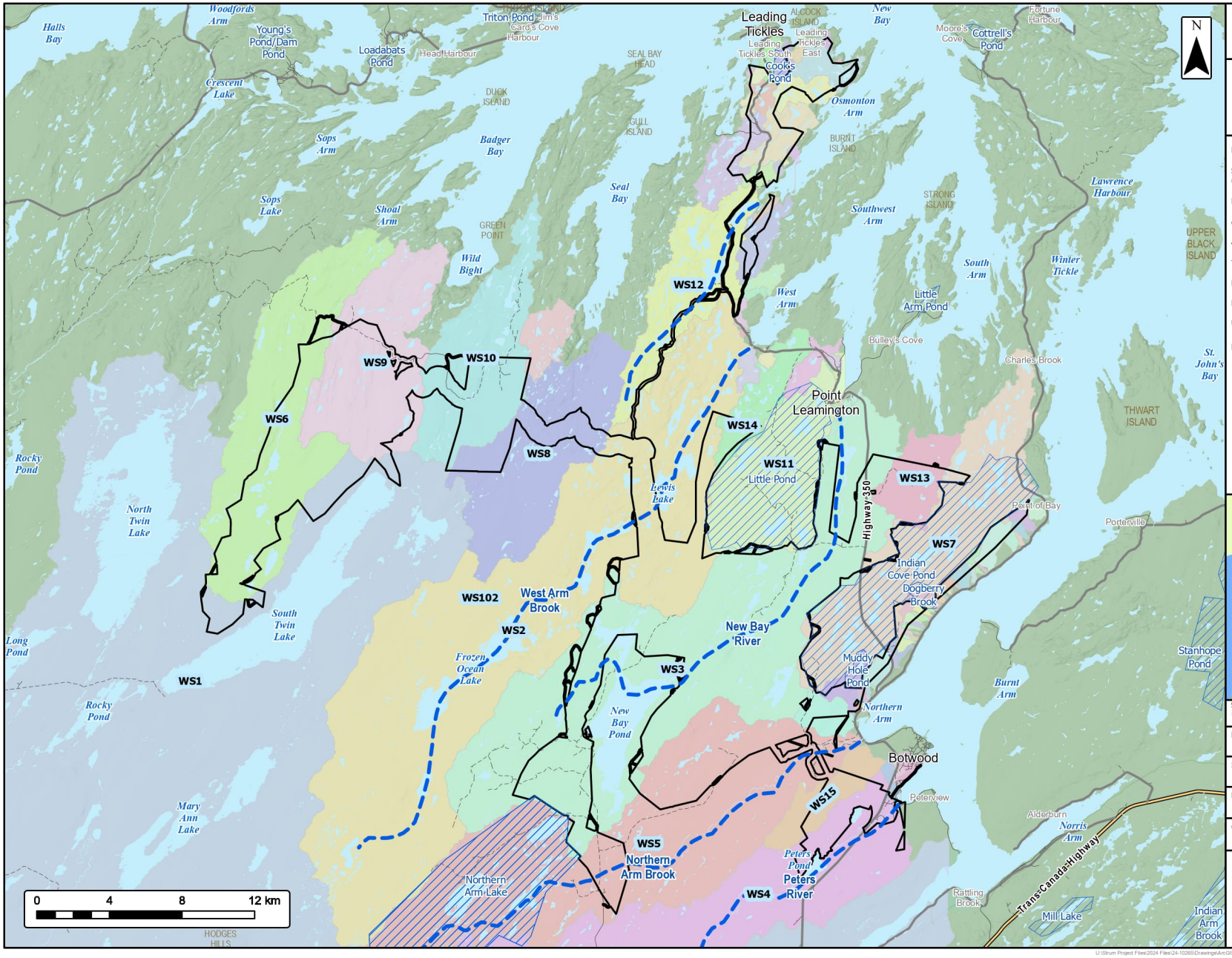

EVREC Green Energy Hub

Watersheds & Scheduled Salmon Rivers

EVREC

- Project Area
- Scheduled Salmon Rivers Intersecting Project Areas (Land Use Atlas)
- Protected Water Supply Area
- Watershed Boundary

Transportation

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road
- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-27	Project #: 24-10265
Scale: 1:200,000	Drawing #: 4A
Drawn By: M. Partridge	
Checked By: A. Stoffer	

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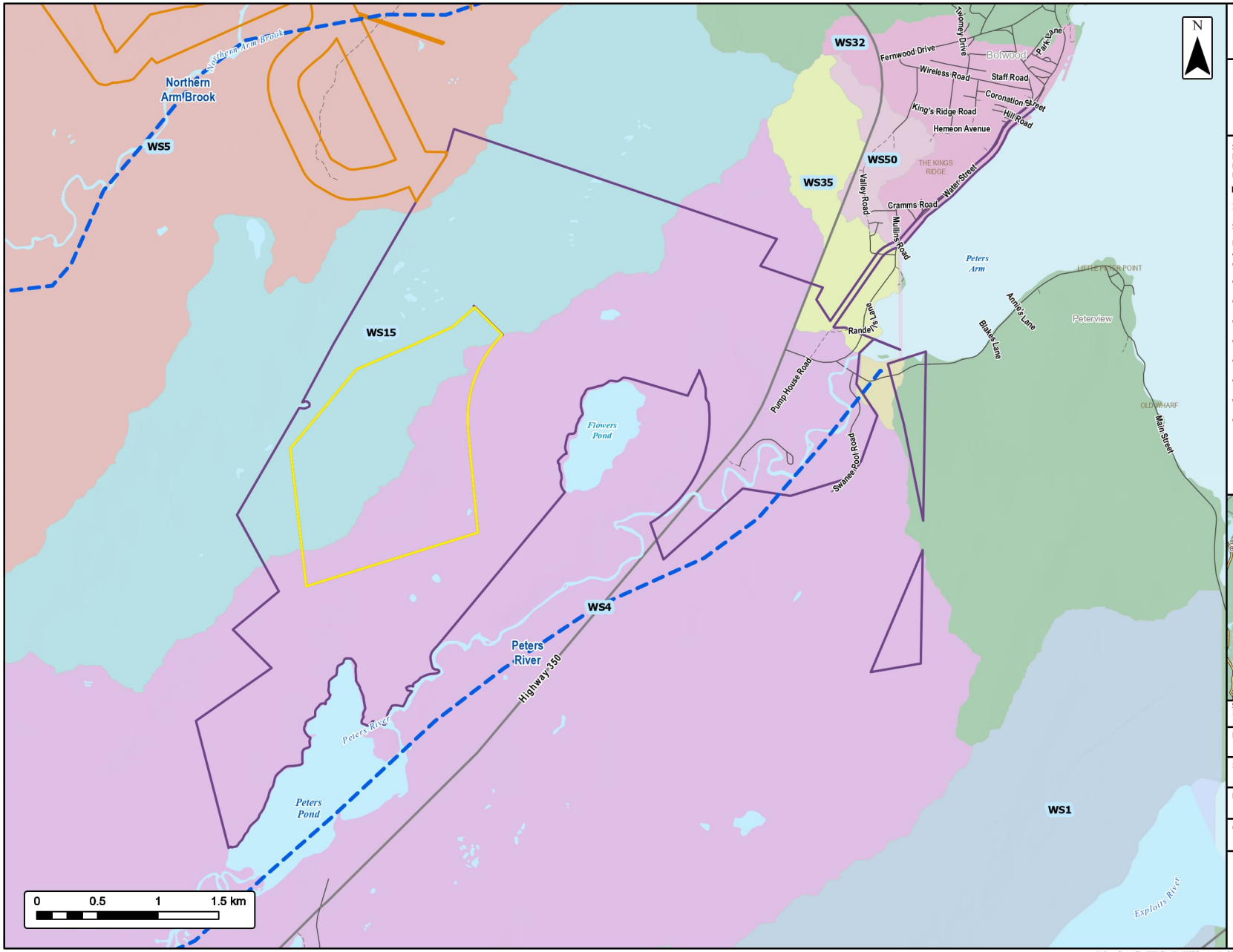


EVREC Green Energy Hub

Watersheds & Scheduled Salmon Rivers
Industrial and Solar Project Areas

EVREC

Scheduled Salmon Rivers Intersecting Project Areas (Land Use Atlas)

Project Area

Industrial Project Area

Solar Project Area

Botwood Wind Project Area

Watershed

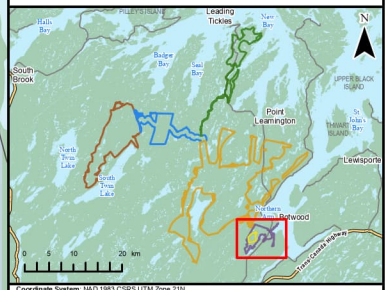
WS1
WS4
WS5
WS15
WS32
WS35
WS50
WS84

Water Features

Mapped Waterbodies

Transportation

Highway
Road
Unpaved Road



Coordinate System: NAD 1983 CSRS UTM Zone 21N
Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS

Date: 2026-03-27	Project #: 24-10265
Scale: 1:30,000	Drawing #: **4B**
Drawn By: B. Spencer	
Checked By: L. Pominville	

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APPENDIX B
SURFACE WATER CLASSIFICATION

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
10-112	N	0.5	Shrub	M	P
10-118	N	NV	Shrub	M	P
10-119	N	NV	Treed	C	NV
10-119	N	NV	Treed	C	NV
10-119	N	NV	Treed	C	NV
10-123	N	0.5	Treed	C	P
10-130	N	NV	Treed	C	NV
10-132	N	NV	Shrub	M	NV
10-133	N	2	Shrub	M	NV
10-149	N	NV	Treed	C	NV
10-151	N	0.5	Wetland	F	P
10-153	N	NV	Treed	C	NV
10-153	N	NV	Treed	C	NV
10-153	N	NV	Treed	C	NV
10-157	N	NV	Treed	C	NV
10-157	N	NV	Treed	C	NV
10-157	N	NV	Treed	C	NV
10-159	N	1.5	Treed	C	NV
10-160	N	NV	Treed	C	NV
10-168	N	NV	Treed	C	P
10-174	N	NV	Wetland	F	NV
10-177	N	2	Treed	C	P
10-181	N	1	Wetland	F	P
10-186	N	NV	Treed	C	NV
10-190	N	NV	Shrub	M	NV
10-194	N	0.5	Shrub	M	P
10-194	N	NV	Wetland	F	NV
10-203	N	NV	Treed	C	NV
10-216	N	NV	Shrub	M	NV
10-222	N	NV	Treed	C	NV
10-228	N	NV	Treed	C	NV
10-232	N	NV	Treed	C	NV
10-233	N	NV	Treed	C	NV
10-240	N	NV	Treed	C	NV
10-240	N	NV	Treed	C	NV
10-245	N	NV	Treed	C	NV
10-308	N	NV	Shrub	M	NV
10-312	N	NV	Shrub	M	P
10-313	N	0.5	Shrub	M	P
10-315	N	NV	Shrub	M	NV
10-326	N	0.5	Wetland	F	P
10-327	N	2	Treed	C	P
10-331	N	NV	Treed	C	NV
10-332	N	1	Shrub	M	P
10-332	N	NV	Treed	C	NV
10-339	N	NV	Treed	C	P
10-341	N	NV	Shrub	M	NV
10-343	N	NV	Shrub	M	NV
10-344	N	2.5	Shrub	M	P
10-347	N	1	Treed	C	P
10-347	N	1	Shrub	M	NV
10-367	N	NV	Treed	C	NV
10-367	N	2	Shrub	M	P
10-367	N	NV	Treed	C	NV
10-368	N	NV	Wetland	F	NV
10-418	N	1	Treed	C	P
10-441	N	2	Treed	C	P
10-444	N	2.5	Treed	C	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
10-445	N	0.5	Shrub	M	P
10-483	S1	4	Treed	C	NV
10-490	S1	5	Treed	C	P
11-228	N	0.5	Shrub	M	NV
11-230	N	0.5	Shrub	M	P
1-16590	N	0.5	Treed	C	P
1-16592	N	1.5	Treed	C	P
1-16611	N	0.5	Treed	C	P
1-16633	N	1	Shrub	M	P
1-16649	N	0.5	Shrub	M	P
1-16806	N	NV	Wetland	F	NV
1-16816	N	1.5	Wetland	F	P
1-16828	N	1	Shrub	M	P
1-16832	N	1	Shrub	M	P
1-183	N	1	Treed	C	P
12-108	N	NV	Wetland	F	NV
12-112	N	NV	Treed	C	NV
12-122	N	NV	Wetland	F	NV
12-126	N	NV	Wetland	F	NV
1-214	N	0.5	Wetland	F	NV
12-163	N	0.5	Wetland	F	NV
12-165	N	NV	Treed	C	NV
12-180	N	NV	Wetland	F	NV
12-240	N	NV	Wetland	F	NV
12-272	N	NV	Treed	C	NV
12-314	N	9.5	Wetland	F	NV
12-349	S1	4	Wetland	F	NV
12-352	S1	NV	Wetland	F	NV
12-360	S1	3.5	Wetland	F	NV
1-23765	N	1	Treed	C	P
1-23766	N	0.5	Treed	C	P
13-104	N	1.5	Shrub	M	P
13-109	N	1	Shrub	M	P
13-126	N	NV	Wetland	F	NV
13-141	N	1	Shrub	M	P
13-143	S1	2.5	Shrub	M	P
13-173	S1	2.5	Shrub	M	P
13-27	N	0.5	Wetland	F	P
13-27	N	0.5	Wetland	F	P
13-35	N	1.5	Shrub	M	P
13-36	N	1.5	Shrub	M	P
13-52	N	2	Shrub	M	P
13-53	N	1	Shrub	M	P
13-55	N	1	Shrub	M	P
1-356	N	0.5	Treed	C	NV
13-67	N	1	Shrub	M	P
13-72	N	NV	Treed	C	NV
1-374	N	0.5	Shrub	M	P
13-78	N	NV	Shrub	M	NV
13-87	N	NV	Wetland	F	NV
1-419	N	0.5	Shrub	M	P
14-57	N	0.5	Wetland	F	P
14-59	N	0.5	Wetland	F	P
14-77	N	0.5	Shrub	M	P
16-28	N	0.5	Treed	C	P
16-29	N	NV	Treed	C	NV
16-30	N	1	Shrub	M	P
1-680	N	0.5	Treed	C	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
1-729	N	NV	Wetland	F	NV
1-733	N	NV	Wetland	F	NV
1-735	N	NV	Shrub	M	NV
17-42	N	NV	Shrub	M	NV
1-784	N	0.5	Shrub	M	P
1-784	N	0.5	Shrub	M	P
1-805	N	NV	Shrub	M	NV
18-15	N	NV	Shrub	M	P
18-25	N	1	Wetland	F	P
18-33	N	NV	Shrub	M	P
18-34	N	1	Wetland	F	P
18-38	N	1	Wetland	F	P
1-848	N	0.5	Wetland	F	P
1-849	N	1	Wetland	F	P
18-51	N	1	Treed	C	P
18-54	N	1	Shrub	M	P
18-62	N	1	Treed	C	P
18-64	N	1	Shrub	M	P
18-76	S1	3	Treed	C	P
18-78	S1	3	Treed	C	P
1-878	N	NV	Shrub	M	NV
19-18	N	NV	Shrub	M	NV
19-40	N	NV	Treed	C	P
19-41	N	NV	Treed	C	P
19-69	N	1	Shrub	M	P
20-33	N	0.5	Shrub	M	P
20-33	N	1	Shrub	M	NV
21-19	N	1	Shrub	M	P
21-31	N	NV	Treed	C	NV
21-31	N	NV	Treed	C	NV
21-32	N	NV	Shrub	M	P
21-35	N	1	Wetland	F	P
21-35	N	1	Shrub	M	P
21-4	N	0.5	Shrub	M	P
21-53	N	2	Shrub	M	P
2-1610	N	1	Shrub	M	P
2-1611	N	NV	Treed	C	NV
2-1632	N	1	Shrub	M	P
2-1632	N	0.5	Wetland	F	NV
2-1634	N	1	Shrub	M	P
2-1636	N	2	Shrub	M	NV
2-1641	N	1	Shrub	M	P
2-1668	N	0.5	Treed	C	NV
2-1718	N	2	Shrub	M	P
2-1727	N	NV	Treed	C	NV
2-1727	N	NV	Treed	C	NV
2-1731	N	0.5	Shrub	M	P
2-1736	N	0.5	Treed	C	I
2-1736	N	NV	Treed	C	NV
2-1749	N	NV	Treed	C	NV
2-1800	N	0.5	Shrub	M	NV
2-1805	S1	4.5	Shrub	M	P
2-1812	N	1	Shrub	M	P
2-1816	N	1	Shrub	M	P
2-1816	N	0.5	Treed	C	I
2-1833	N	0.5	Wetland	F	P
2-1833	N	NV	Wetland	F	NV
2-1852	N	0.5	Shrub	M	I

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
2-1862	N	0.5	Treed	C	P
2-1862	N	NV	Shrub	M	NV
2-195	N	0.5	Wetland	F	P
2-209	N	NV	Shrub	M	NV
2-213	N	NV	Treed	C	NV
2-217	N	1.5	Treed	C	P
2-223	N	0.5	Shrub	M	P
2-223	N	0.5	Shrub	M	P
2-2312	S1	4	Wetland	F	NV
2-2315	N	2.5	Shrub	M	P
2-2315	N	5	Shrub	M	P
2-2315	N	5.5	Shrub	M	P
22-34	N	NV	Shrub	M	NV
2-2346	N	NV	Shrub	M	NV
22-36	S1	NV	Treed	C	P
2-2371	N	2	Shrub	M	P
2-2372	N	0.5	Treed	C	P
2-2373	N	0.5	Treed	C	P
2-2404	S1	NV	Shrub	M	NV
2-2411	N	2	Shrub	M	P
2-2669	S1	3	Treed	C	P
2-2670	S1	4.5	Treed	C	P
2-2670	S1	3	Treed	C	NV
2-2926	S2	7	Treed	C	P
2-298	N	NV	Shrub	M	NV
2-311	N	NV	Shrub	M	NV
2-327	N	1	Wetland	F	P
2-347	N	0.5	Wetland	F	P
2-350	N	NV	Wetland	F	NV
2-351	N	1	Shrub	M	P
2-352	N	NV	Shrub	M	NV
2-352	N	1	Shrub	M	P
2-362	N	0.5	Treed	C	P
2-4	N	2	Shrub	M	NV
2-417	N	1	Wetland	F	P
2-424	N	0.5	Shrub	M	P
2-430	N	1	Shrub	M	P
2-442	N	0.5	Treed	C	NV
2-449	N	NV	Treed	C	NV
2-469	N	1	Shrub	M	P
2-484	N	0.5	Shrub	M	P
2-493	N	0.5	Treed	C	P
2-497	N	0.5	Treed	C	P
2-5	N	NV	Shrub	M	NV
2-501	N	NV	Treed	C	NV
2-502	N	NV	Treed	C	NV
2-506	N	1	Treed	C	I
2-507	N	1.5	Shrub	M	P
2-507	N	1.5	Shrub	M	P
2-514	N	NV	Shrub	M	NV
2-516	N	1	Shrub	M	P
2-523	N	0.5	Wetland	F	NV
2-523	N	0.5	Shrub	M	P
2-527	N	0.5	Shrub	M	P
2-527	N	NV	Shrub	M	NV
2-538	N	0.5	Treed	C	NV
2-542	N	0.5	Shrub	M	P
2-547	N	0.5	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
2-550	N	NV	Shrub	M	NV
2-556	N	0.5	Shrub	M	I
2-564	N	1	Shrub	M	P
2-564	N	0.5	Shrub	M	NV
2-569	N	NV	Wetland	F	NV
2-570	N	NV	Shrub	M	NV
2-570	N	NV	Shrub	M	NV
2-570	N	NV	Shrub	M	NV
2-575	N	0.5	Treed	C	NV
2-589	N	NV	Shrub	M	NV
2-604	N	1	Treed	C	P
2-606	N	1.5	Shrub	M	P
2-606	N	NV	Shrub	M	NV
2-606	N	0.5	Shrub	M	P
2-613	N	1	Wetland	F	P
2-614	N	1	Treed	C	P
2-624	N	0.5	Treed	C	I
2-624	N	NV	Treed	C	NV
2-624	N	NV	Treed	C	NV
2-644	N	NV	Shrub	M	NV
2-644	N	NV	Shrub	M	NV
2-644	N	NV	Shrub	M	NV
2-646	N	NV	Shrub	M	NV
2-648	N	1	Shrub	M	P
2-653	N	NV	Treed	C	NV
2-668	N	2	Shrub	M	P
2-682	N	NV	Treed	C	NV
2-708	N	1	Shrub	M	P
2-708	N	0.5	Wetland	F	NV
2-708	N	0.5	Shrub	M	P
2-708	N	0.5	Wetland	F	P
2-712	N	0.5	Shrub	M	NV
2-714	N	NV	Shrub	M	NV
2-714	N	NV	Shrub	M	NV
2-714	N	NV	Shrub	M	NV
30-13	N	1	Treed	C	P
30-8	N	10	Shrub	M	P
3-1012	N	1	Shrub	M	P
3-1023	N	1.5	Wetland	F	P
3-1041	N	0.5	Treed	C	P
3-1041	N	NV	Shrub	M	NV
3-1042	N	1	Shrub	M	P
3-1043	N	1.5	Shrub	M	NV
3-1057	N	4	Shrub	M	P
3-1068	N	0.5	Treed	C	NV
3-1068	N	5	Treed	C	NV
31-12	N	1	Shrub	M	P
3-1123	N	1.5	Treed	C	P
3-1125	N	NV	Shrub	M	NV
31-13	N	1	Treed	C	P
31-14	N	2	Wetland	F	P
3-1142	N	0.5	Wetland	F	P
3-1147	N	1	Treed	C	P
3-1156	N	NV	Treed	C	NV
3-1157	N	2	Shrub	M	P
3-1158	S2	NV	Wetland	F	NV
3-1160	N	0.5	Shrub	M	P
3-1162	N	NV	Shrub	M	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
3-1163	N	1	Shrub	M	P
3-1164	N	1	Treed	C	NV
3-1165	N	NV	Shrub	M	I
3-1168	N	1.5	Shrub	M	P
3-1169	N	NV	Wetland	F	NV
3-1204	N	1	Wetland	F	P
3-121	N	0.5	Wetland	F	NV
3-1210	N	0.5	Treed	C	I
3-1220	N	1	Shrub	M	P
3-1233	N	3	Treed	C	P
3-1234	N	NV	Treed	C	NV
3-1236	N	NV	Shrub	M	NV
3-1238	N	1	Shrub	M	P
3-1251	N	1.5	Shrub	M	P
3-1255	N	NV	Shrub	M	NV
3-1255	N	NV	Shrub	M	NV
3-1255	N	NV	Shrub	M	NV
3-1300	N	3	Wetland	F	NV
3-1310	N	0.5	Shrub	M	P
3-1313	N	NV	Shrub	M	NV
3-1314	N	1	Treed	C	P
3-132	N	0.5	Wetland	F	P
3-1329	N	NV	Treed	C	NV
3-1340	N	1	Shrub	M	I
3-1343	N	2.5	Wetland	F	P
3-1344	N	NV	Treed	C	P
3-1351	N	1.5	Shrub	M	P
3-1362	N	0.5	Shrub	M	I
3-1378	N	1	Wetland	F	P
3-1378	N	1	Shrub	M	P
3-1382	N	0.5	Wetland	F	P
3-1386	N	NV	Treed	C	NV
3-1435	N	1.5	Shrub	M	P
3-1438	N	1	Shrub	M	P
3-1443	N	0.5	Wetland	F	P
3-1451	N	NV	Treed	C	NV
3-1454	N	NV	Treed	C	NV
3-1461	N	0.5	Treed	C	I
3-1476	N	3	Shrub	M	P
3-1485	N	NV	Shrub	M	NV
3-1485	N	0.5	Treed	C	P
3-1487	N	NV	Shrub	M	NV
3-149	N	1	Shrub	M	P
3-1499	N	1	Shrub	M	P
3-1502	N	0.5	Treed	C	P
3-1517	N	1	Shrub	M	P
3-1518	N	1.5	Shrub	M	P
3-1518	N	3	Treed	C	P
3-1524	N	1	Shrub	M	P
3-1524	N	1	Shrub	M	P
3-1525	N	1.5	Shrub	M	P
3-1533	N	1.5	Shrub	M	P
3-1539	N	0.5	Wetland	F	P
3-1546	N	1	Treed	C	P
3-1559	N	1.5	Treed	C	P
3-1559	N	1.5	Treed	C	P
3-158	N	0.5	Shrub	M	P
3-1584	N	1	Wetland	F	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
3-1586	N	NV	Wetland	F	NV
3-1589	N	0.5	Shrub	M	NV
3-1594	N	1	Shrub	M	P
3-1595	N	1.5	Shrub	M	P
3-163	N	0.5	Treed	C	P
3-1630	N	NV	Treed	C	NV
3-1635	N	0.5	Wetland	F	NV
3-1636	N	0.5	Shrub	M	P
3-1656	S1	3.5	Shrub	M	P
3-1666	N	1.5	Shrub	M	P
3-167	N	NV	Treed	C	I
3-1673	S1	1	Treed	C	P
3-1679	N	1.5	Wetland	F	P
3-1679	N	1	Wetland	F	P
3-169	N	1	Treed	C	P
3-169	N	NV	Treed	C	I
3-1697	N	2.5	Treed	C	P
3-1702	N	1	Treed	C	P
3-1759	N	1.5	Treed	C	P
3-177	N	0.5	Treed	C	P
3-178	N	1	Shrub	M	P
3-178	N	NV	Treed	C	I
3-1790	N	0.5	Treed	C	I
3-1790	N	NV	Treed	C	NV
31-8	N	NV	Shrub	M	I
3-1834	N	0.5	Wetland	F	NV
3-1835	N	1	Wetland	F	NV
3-184	N	0.5	Treed	C	NV
3-1843	N	0.5	Wetland	F	P
3-1866	S1	3.5	Treed	C	P
3-187	N	NV	Treed	C	NV
3-188	N	1	Wetland	F	P
3-1880	S1	5	Treed	C	P
3-1918	S1	6	Treed	C	P
3-196	N	NV	Wetland	F	NV
3-196	N	5	Wetland	F	NV
3-1961	N	1.5	Shrub	M	P
3-1977	S1	3.5	Treed	C	P
3-198	N	1.5	Shrub	M	P
3-2028	S1	12	Treed	C	P
3-204	N	NV	Wetland	F	NV
3-2081	S2	23	Shrub	M	P
3-2119	S2	9.5	Treed	C	P
3-2133	S2	18	Shrub	M	P
3-218	N	1	Treed	C	P
3-231	N	1.5	Wetland	F	NV
3-233	N	1.5	Treed	C	P
3-234	N	1	Shrub	M	P
3-242	N	0.5	Wetland	F	P
3-246	N	NV	Treed	C	NV
3-273	N	0.5	Shrub	M	P
3-297	N	NV	Shrub	M	NV
3-318	N	1	Wetland	F	P
3-329	N	1.5	Wetland	F	P
3-332	N	1	Shrub	M	P
3-332	N	1	Shrub	M	P
3-332	N	1	Shrub	M	P
3-332	N	1	Treed	C	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
3-333	N	3	Wetland	F	P
3-339	N	NV	Shrub	M	NV
3-345	N	1.5	Shrub	M	P
3-355	N	0.5	Treed	C	I
3-362	N	NV	Shrub	M	NV
3-364	N	0.5	Wetland	F	P
3-364	N	0.5	Shrub	M	P
3-370	N	0.5	Treed	C	P
3-380	N	0.5	Treed	C	P
3-385	N	NV	Treed	C	NV
3-385	N	NV	Treed	C	NV
3-385	N	NV	Treed	C	NV
3-386	N	1.5	Shrub	M	P
3-409	N	NV	Shrub	M	NV
3-416	N	1	Shrub	M	P
3-424	N	1	Treed	C	I
3-464	N	1	Treed	C	P
3-47	N	0.5	Treed	C	P
3-478	N	0.5	Shrub	M	P
34-8	N	1	Wetland	F	P
3-498	N	0.5	Shrub	M	P
3-499	N	1.5	Shrub	M	P
3-501	N	NV	Shrub	M	NV
3-504	N	0.5	Shrub	M	I
3-505	N	1	Shrub	M	I
3-508	N	0.5	Treed	C	P
3-510	N	0.5	Treed	C	P
3-511	N	1.5	Treed	C	P
3-512	N	1.5	Shrub	M	P
3-518	N	0.5	Treed	C	P
3-525	N	NV	Treed	C	NV
3-527	N	0.5	Shrub	M	I
3-535	N	1.5	Shrub	M	P
3-546	N	1	Treed	C	P
3-553	N	1	Shrub	M	I
3-563	N	1	Shrub	M	I
3-568	N	0.5	Shrub	M	I
3-575	N	NV	Shrub	M	NV
3-584	N	1	Treed	C	P
3-587	S1	1.5	Shrub	M	P
3-591	N	1	Shrub	M	P
3-594	N	1	Shrub	M	P
3-594	N	1	Shrub	M	P
3-596	N	NV	Shrub	M	NV
3-619	N	NV	Treed	C	NV
3-659	N	1	Treed	C	P
3-662	N	0.5	Treed	C	P
3-665	N	0.5	Shrub	M	P
3-675	N	0.5	Shrub	M	P
3-685	N	NV	Wetland	F	NV
3-693	N	1	Treed	C	NV
3-694	N	1	Shrub	M	P
3-696	N	1	Wetland	F	P
3-703	N	NV	Treed	C	NV
3-703	N	0.5	Treed	C	P
3-717	N	1.5	Wetland	F	P
3-718	N	NV	Shrub	M	NV
3-725	N	0.5	Wetland	F	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
3-733	N	NV	Treed	C	NV
3-760	N	NV	Treed	C	NV
3-766	N	NV	Treed	C	NV
3-768	N	NV	Treed	C	NV
3-768	N	1.5	Treed	C	P
3-769	N	NV	Treed	C	NV
3-772	N	0.5	Wetland	F	P
3-774	N	NV	Treed	C	NV
3-775	N	1	Shrub	M	P
3-808	N	1	Treed	C	P
3-817	N	0.5	Shrub	M	NV
3-821	N	NV	Shrub	M	NV
3-821	N	NV	Shrub	M	NV
3-821	N	NV	Shrub	M	NV
3-821	N	NV	Shrub	M	NV
3-827	N	NV	Shrub	M	NV
3-833	N	1	Shrub	M	NV
3-847	N	1	Treed	C	P
3-871	N	0.5	Shrub	M	P
3-871	N	0.5	Treed	C	I
3-912	N	1	Wetland	F	P
3-934	N	NV	Treed	C	NV
3-940	N	1	Treed	C	P
3-946	N	0.5	Treed	C	I
3-956	N	1	Wetland	F	P
3-989	N	NV	Treed	C	NV
3-997	N	0.5	Treed	C	P
41-1	N	1	Shrub	M	P
46-1	N	1	Shrub	M	P
46-6	N	NV	Shrub	M	I
47-1	N	1	Wetland	F	P
5-1018	N	1.5	Treed	C	P
5-1072	N	1.5	Treed	C	P
5-1085	N	1	Shrub	M	P
5-116	N	NV	Shrub	M	NV
5-118	N	0.5	Shrub	M	P
5-1231	S1	1.5	Shrub	M	NV
5-1232	N	0.5	Wetland	F	P
5-1243	N	NV	Wetland	F	NV
5-1253	N	1	Shrub	M	P
5-130	N	2	Shrub	M	P
5-137	N	1.5	Wetland	F	P
5-140	N	0.5	Shrub	M	P
5-1463	S1	3.5	Shrub	M	P
5-1476	S1	4	Treed	C	P
5-15	N	0.5	Shrub	M	NV
5-1541	S2	14	Shrub	M	P
5-1623	S2	14	Shrub	M	P
5-164	N	0.5	Shrub	M	NV
5-165	N	0.5	Shrub	M	NV
5-167	N	NV	Shrub	M	NV
5-18	N	2	Shrub	M	I
5-181	N	1.5	Treed	C	NV
5-184	N	2	Treed	C	P
5-184	N	2	Shrub	M	NV
5-186	N	1.5	Treed	C	P
5-187	N	0.5	Shrub	M	P
5-2	N	1	Treed	C	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
5-201	N	1.5	Shrub	M	P
5-202	N	0.5	Treed	C	NV
5-222	N	1	Wetland	F	P
5-227	N	1	Shrub	M	P
5-25	N	1.5	Shrub	M	P
5-27	N	0.5	Shrub	M	P
5-31	N	NV	Treed	C	NV
5-31	N	NV	Treed	C	NV
5-37	N	NV	Treed	C	NV
5-375	N	1	Shrub	M	P
5-397	N	0.5	Shrub	M	P
5-398	N	0.5	Shrub	M	P
5-44	N	NV	Shrub	M	NV
5-45	N	NV	Shrub	M	NV
5-45	N	NV	Shrub	M	NV
5-457	N	NV	Shrub	M	NV
5-461	N	NV	Shrub	M	NV
5-463	N	NV	Treed	C	NV
5-463	N	0.5	Treed	C	NV
5-49	N	0.5	Wetland	F	P
5-493	N	1	Shrub	M	P
5-52	N	0.5	Shrub	M	P
5-541	N	1	Treed	C	P
5-552	N	0.5	Treed	C	P
5-556	N	NV	Shrub	M	NV
5-556	N	NV	Shrub	M	NV
5-58	N	0.5	Wetland	F	P
5-59	N	0.5	Wetland	F	NV
5-60	N	1.5	Treed	C	P
56-1	N	1	Shrub	M	P
5-63	N	0.5	Shrub	M	P
5-654	N	0.5	Shrub	M	P
5-67	N	1.5	Shrub	M	NV
5-76	N	4.5	Treed	C	P
5-8	N	2	Shrub	M	P
5-80	N	0.5	Wetland	F	NV
5-81	N	0.5	Wetland	F	P
5-81	N	0.5	Wetland	F	P
5-82	N	NV	Shrub	M	NV
5-83	N	NV	Shrub	M	NV
5-83	N	NV	Shrub	M	NV
5-853	N	2	Treed	C	P
5-855	N	NV	Treed	C	NV
5-855	N	NV	Treed	C	NV
5-855	N	NV	Treed	C	NV
5-855	N	NV	Treed	C	NV
5-855	N	NV	Treed	C	NV
5-859	N	1.5	Treed	C	P
5-86	N	1	Shrub	M	P
5-86	N	1	Shrub	M	P
5-86	N	1	Shrub	M	P
5-872	N	0.5	Shrub	M	P
5-872	N	0.5	Shrub	M	P
5-878	N	0.5	Shrub	M	P
5-898	N	3	Shrub	M	P
5-899	N	1.5	Wetland	F	P
5-899	N	NV	Shrub	M	NV
5-902	N	2.5	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
5-920	N	1	Shrub	M	P
5-933	N	NV	Shrub	M	NV
5-933	N	0.5	Wetland	F	P
5-934	N	0.5	Wetland	F	P
5-94	N	1	Shrub	M	P
5-98	N	1	Wetland	F	P
6-106	N	1	Shrub	M	P
6-111	N	NV	Treed	C	NV
6-124	N	NV	Treed	C	NV
6-125	N	0.5	Treed	C	P
6-129	N	NV	Treed	C	NV
6-137	N	NV	Treed	C	NV
6-138	N	NV	Treed	C	NV
6-140	N	NV	Treed	C	NV
6-144	N	NV	Treed	C	NV
6-159	N	0.5	Wetland	F	P
6-163	N	NV	Treed	C	NV
6-170	N	0.5	Shrub	M	P
6-180	N	1	Shrub	M	P
6-183	N	1.5	Treed	C	P
6-187	N	NV	Shrub	M	NV
6-199	N	0.5	Shrub	M	NV
6-201	N	0.5	Shrub	M	P
6-209	N	0.5	Shrub	M	P
6-209	N	0.5	Shrub	M	P
6-209	N	0.5	Shrub	M	P
6-234	N	NV	Shrub	M	NV
6-261	N	1	Treed	C	P
6-275	N	1	Shrub	M	P
6-284	N	0.5	Shrub	M	P
6-284	N	1	Shrub	M	P
6-284	N	NV	Shrub	M	NV
6-286	N	NV	Shrub	M	NV
6-286	N	1	Treed	C	P
6-288	N	1	Treed	C	P
6-289	N	NV	Shrub	M	NV
6-290	N	NV	Shrub	M	NV
6-291	N	1	Treed	C	P
6-291	N	NV	Shrub	M	NV
6-295	N	NV	Shrub	M	NV
6-295	N	0.5	Shrub	M	NV
6-301	N	0.5	Treed	C	P
6-305	N	0.5	Shrub	M	P
6-308	N	NV	Treed	C	NV
6-309	N	NV	Treed	C	NV
6-312	N	NV	Shrub	M	NV
6-317	N	0.5	Shrub	M	NV
6-318	N	NV	Wetland	F	NV
6-320	N	0.5	Shrub	M	P
6-342	N	1	Shrub	M	P
6-354	N	0.5	Shrub	M	P
6-357	N	1	Shrub	M	P
6-360	N	NV	Wetland	F	NV
6-361	N	NV	Shrub	M	NV
6-366	N	1.5	Treed	C	P
6-367	N	0.5	Shrub	M	P
6-368	N	1	Wetland	F	P
6-374	N	NV	Shrub	M	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
6-375	N	NV	Wetland	F	NV
6-375	N	NV	Wetland	F	NV
6-377	N	1	Wetland	F	NV
6-381	N	NV	Shrub	M	I
6-382	N	0.5	Shrub	M	P
6-384	N	NV	Shrub	M	NV
6-407	N	0.5	Shrub	M	P
6-416	N	0.5	Wetland	F	P
6-416	N	0.5	Wetland	F	P
6-417	N	NV	Treed	C	NV
6-425	N	1	Treed	C	P
6-428	N	1	Treed	C	P
6-444	N	0.5	Treed	C	NV
6-444	N	NV	Treed	C	NV
6-450	N	NV	Shrub	M	NV
6-465	N	NV	Treed	C	NV
6-479	N	0.5	Shrub	M	P
6-479	N	0.5	Shrub	M	P
6-479	N	0.5	Treed	C	NV
6-496	N	1	Shrub	M	P
6-552	N	NV	Treed	C	NV
6-574	N	0.5	Wetland	F	P
6-574	N	NV	Shrub	M	NV
6-582	N	0.5	Wetland	F	P
6-623	N	0.5	Wetland	F	P
6-627	N	1	Shrub	M	P
6-633	N	1.5	Shrub	M	P
6-633	N	1.5	Shrub	M	P
6-640	N	0.5	Treed	C	P
6-640	N	2	Shrub	M	P
6-640	N	2	Shrub	M	P
6-643	N	1	Shrub	M	P
6-646	N	1.5	Shrub	M	P
6-649	N	NV	Wetland	F	NV
6-675	N	0.5	Shrub	M	P
6-678	N	NV	Shrub	M	NV
6-693	N	NV	Treed	C	NV
6-713	N	NV	Treed	C	NV
6-714	N	NV	Treed	C	NV
6-780	S1	1	Shrub	M	P
6-790	N	2	Shrub	M	P
6-790	N	1	Treed	C	NV
6-791	N	2	Shrub	M	P
6-791	N	1	Treed	C	NV
6-795	N	0.5	Shrub	M	P
6-798	S1	1	Wetland	F	P
6-838	N	1	Shrub	M	P
6-849	N	1	Wetland	F	P
6-862	N	1	Wetland	F	P
6-879	S1	1	Shrub	M	P
6-889	S1	4	Treed	C	P
6-95	N	1	Shrub	M	P
6-96	N	NV	Treed	C	NV
6-96	N	NV	Treed	C	NV
6-984	S1	7	Treed	C	P
7-171	N	NV	Treed	C	NV
7-171	N	0.5	Treed	C	NV
7-193	N	NV	Treed	C	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
7-222	N	2	Treed	C	P
7-223	N	0.5	Wetland	F	P
7-354	N	NV	Treed	C	NV
7-390	N	1	Shrub	M	P
7-448	N	0.5	Wetland	F	P
7-506	N	NV	Shrub	M	NV
7-507	N	0.5	Wetland	F	P
7-556	N	0.5	Shrub	M	P
7-591	N	0.5	Wetland	F	P
8-108	N	NV	Shrub	M	NV
8-114	N	NV	Treed	C	P
8-117	N	NV	Shrub	M	NV
8-118	N	2	Wetland	F	P
8-118	N	NV	Shrub	M	NV
8-126	N	NV	Shrub	M	NV
8-126	N	NV	Shrub	M	NV
8-128	N	NV	Treed	C	NV
8-131	N	NV	Treed	C	NV
8-135	N	2	Shrub	M	P
8-136	N	0.5	Shrub	M	NV
8-138	N	NV	Shrub	M	NV
8-146	N	NV	Treed	C	NV
8-155	N	NV	Treed	C	NV
8-167	N	NV	Shrub	M	NV
8-170	N	NV	Shrub	M	NV
8-171	N	NV	Shrub	M	NV
8-172	N	NV	Treed	C	NV
8-178	N	NV	Shrub	M	NV
8-178	N	NV	Treed	C	NV
8-178	N	NV	Treed	C	NV
8-179	N	NV	Treed	C	NV
8-179	N	NV	Shrub	M	NV
8-181	N	NV	Treed	C	NV
8-183	N	NV	Treed	C	NV
8-190	N	NV	Treed	C	NV
8-195	N	NV	Shrub	M	NV
8-408	N	NV	Treed	C	P
8-417	N	NV	Treed	C	P
8-417	N	NV	Treed	C	NV
8-429	N	0.5	Wetland	F	P
8-442	N	0.5	Wetland	F	P
8-446	N	NV	Shrub	M	NV
8-535	N	1	Treed	C	P
8-535	N	2	Treed	C	P
8-535	N	1	Shrub	M	NV
8-621	S1	3	Shrub	M	NV
8-669	S1	10	Treed	C	P
9-102	N	NV	Treed	C	NV
9-102	N	3	Treed	C	NV
9-109	N	1	Treed	C	P
9-123	N	0.5	Treed	C	P
9-133	N	1	Treed	C	P
9-141	N	1	Treed	C	P
9-144	N	NV	Treed	C	NV
9-146	N	0.5	Shrub	M	P
9-150	N	NV	Shrub	M	NV
9-152	N	NV	Treed	C	NV
9-152	N	NV	Shrub	M	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
9-152	N	NV	Shrub	M	NV
9-155	N	1	Shrub	M	P
9-155	N	1	Shrub	M	P
9-155	N	1	Shrub	M	P
9-156	N	3.5	Treed	C	P
9-163	N	5	Treed	C	P
9-163	N	3	Shrub	M	NV
9-168	N	NV	Shrub	M	NV
9-169	N	NV	Shrub	M	NV
9-187	N	0.5	Shrub	M	P
9-188	N	NV	Shrub	M	NV
9-190	N	3	Treed	C	NV
9-193	N	0.5	Shrub	M	P
9-194	N	1	Shrub	M	P
9-202	N	1	Treed	C	P
9-227	N	0.5	Wetland	F	P
9-239	N	0.5	Wetland	F	P
9-245	N	0.5	Treed	C	P
9-245	N	0.5	Wetland	F	NV
9-251	N	1	Shrub	M	P
9-258	N	0.5	Shrub	M	P
9-262	N	0.5	Shrub	M	P
9-262	N	0.5	Shrub	M	P
9-262	N	0.5	Shrub	M	P
9-262	N	0.5	Shrub	M	P
9-262	N	0.5	Shrub	M	P
9-262	N	NV	Wetland	F	NV
9-262	N	NV	Wetland	F	NV
9-263	N	0.5	Treed	C	P
9-267	N	NV	Wetland	F	NV
9-267	N	0.5	Wetland	F	P
9-279	N	NV	Treed	C	NV
9-281	N	1	Wetland	F	P
9-281	N	NV	Shrub	M	NV
9-284	N	1	Treed	C	P
9-286	N	0.5	Shrub	M	P
9-286	N	0.5	Shrub	M	P
9-286	N	1.5	Treed	C	NV
9-289	N	0.5	Shrub	M	NV
9-289	N	0.5	Shrub	M	NV
9-289	N	NV	Treed	C	NV
9-291	N	0.5	Treed	C	P
9-293	N	1.5	Treed	C	P
9-293	N	1	Treed	C	P
9-303	N	0.5	Shrub	M	P
9-360	N	4	Treed	C	P
9-361	N	NV	Wetland	F	NV
9-363	N	1	Treed	C	P
9-398	N	3	Wetland	F	NV
9-415	N	0.5	Shrub	M	P
9-415	N	0.5	Shrub	M	P
9-420	N	0.5	Wetland	F	NV
9-425	N	0.5	Shrub	M	NV
9-437	N	0.5	Treed	C	P
9-438	N	1.5	Treed	C	P
9-445	N	NV	Treed	C	NV
9-445	N	NV	Treed	C	NV
9-448	N	NV	Shrub	M	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
9-448	N	NV	Treed	C	NV
9-456	N	0.5	Shrub	M	P
9-456	N	1.5	Wetland	F	P
9-482	N	2	Treed	C	P
9-497	N	1.5	Shrub	M	P
9-503	N	1	Treed	C	P
9-512	N	NV	Wetland	F	NV
9-512	N	NV	Wetland	F	NV
9-519	N	4.5	Shrub	M	P
9-532	S1	4	Treed	C	P
9-532	S1	5	Treed	C	NV
9-534	S1	NV	Treed	C	NV
9-538	S1	3.5	Shrub	M	P
9-569	S1	2.5	Shrub	M	P
9-607	S1	8.5	Shrub	M	P
9-95	N	NV	Treed	C	P
9-96	N	4.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	I
Non-modelled WC - ID TBD	N	1	Treed	C	I
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	3	Wetland	F	P
Non-modelled WC - ID TBD	N	2	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	2	Treed	C	NV
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	NV	Treed	C	P
Non-modelled WC - ID TBD	N	1.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	3	Wetland	F	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	NV	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	NV
Non-modelled WC - ID TBD	N	2	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	I

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	NV
Non-modelled WC - ID TBD	N	NV	Treed	C	NV
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	2.5	Treed	C	P
Non-modelled WC - ID TBD	N	NV	Treed	C	NV
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	3	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	2.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	NV	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	NV	Wetland	F	NV
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	NV
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	NV	Shrub	M	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	NV	Shrub	M	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	NV	Shrub	M	NV
Non-modelled WC - ID TBD	N	0.5	Wetland	F	I
Non-modelled WC - ID TBD	N	NV	Shrub	M	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	NV	Treed	C	I
Non-modelled WC - ID TBD	N	NV	Treed	C	I
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	I
Non-modelled WC - ID TBD	N	5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	NV
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	I
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	2	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	NV
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	NV
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	1.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	I
Non-modelled WC - ID TBD	N	1	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	I
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	I

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	2	Shrub	M	P
Non-modelled WC - ID TBD	N	NV	Shrub	M	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	I
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	NV
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	4	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	I
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	2.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	0.5	Shrub	M	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
Non-modelled WC - ID TBD	N	2	Wetland	F	NV
Non-modelled WC - ID TBD	N	1.5	Shrub	M	NV
Non-modelled WC - ID TBD	N	1	Treed	C	P
Non-modelled WC - ID TBD	N	0.5	Treed	C	P

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	2	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Shrub	M	P
5-162	N	2	Shrub	M	P
32-13	N	NV	Treed	C	NV
50-6	N	NV	Treed	C	NV
35-5	N	NV	Shrub	M	NV
35-16	N	NV	Treed	C	NV
4-6	N	NV	Shrub	M	NV
35-7	N	NV	Shrub	M	NV
4-1155	N	NV	Shrub	M	NV
4-12	N	NV	Shrub	M	NV
4-13	N	NV	Shrub	M	NV
4-25	N	NV	Shrub	M	NV
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1.5	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	0.5	Wetland	F	I
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Wetland	F	P
Non-modelled WC - ID TBD	N	1	Shrub	M	P
4-6	N	NV	Shrub	M	NV
4-12	N	NV	Shrub	M	NV
4-13	N	NV	Shrub	M	NV
4-1155	N	0.5	Shrub	M	NV
50-6	N	0.5	Treed	C	NV
Non-modelled WC - ID TBD	N	0.5	Shrub	M	NV
35-7	N	0.5	Shrub	M	NV
4-1208	N	NV	Treed	C	NV
4-134	N	0.5	Wetland	F	NV
4-97	N	1	Wetland	F	NV
4-62	N	NV	Treed	C	NV
6-444	N	NV	Treed	C	NV
6-450	N	NV	Treed	C	NV
6-345	N	NV	Treed	C	NV
1-395	N	NV	Treed	C	NV
1-388	N	NV	Treed	C	NV
1-387	N	NV	Treed	C	NV
1-16678	N	NV	Shrub	M	NV
6-283	N	NV	Shrub	M	NV
6-286	N	NV	Shrub	M	NV
6-246	N	NV	Treed	C	NV
6-241	N	1.5	Wetland	F	NV
6-157	N	NV	Treed	C	NV
8-120	N	5	Wetland	F	NV
8-410	N	70	Wetland	F	NV
12-271	N	1	Wetland	F	NV
2-1558	N	NV	Treed	C	NV
44-1	N	1	Wetland	F	NV
19-12	S1	1.5	Wetland	F	NV
62-1	N	5	Wetland	F	NV
Non-modelled WC - ID TBD	N	10	Shrub	M	NV
30-13	N	10	Shrub	M	NV
46-1	N	NV	Treed	C	NV
3-1027	N	2	Wetland	F	NV
5-130	N	NV	Treed	C	NV

Watercourse ID	Classification (N, S1, S2)	Stream Width (m)	Dominant Riparian Vegetation	Substrate (mixed, fine, and coarse)	Flow Regime (Perennial/Intermittent)
20-15	N	NV	Shrub	M	NV
20-4	N	NV	Treed	C	NV
20-7	N	NV	Wetland	F	NV

APPENDIX C
PHOTOGRAPH LOGS

Photo 1: Representative photo of WC15-104 Reach 1

Photo 2: Representative photo of WC15-104 Reach 2

Photo 3: Representative photo of WC15-104 Reach 3

Photo 4: Representative photo of WC15-104 Reach 4

Photo 5: Representative photo of WC15-104 Reach 5

Photo 6: Representative photo of WC15-104 Reach 6

Photo 7: Representative photo of WC15-104 Reach 7

Photo 8: Representative photo of WC15-104 Reach 8

Photo 9: Representative photo of WC15-104 Reach 9

Photo 10: Representative photo of WC15-104 Reach 10

Photo 11: Representative photo of WC15-104 Reach 11

Photo 12: Representative photo of WC15-104 Reach 12

Photo 13: Representative photo of WC15-159 Reach 1	Photo 14: Representative photo of WC15-159 Reach 2

Photo 1: Representative photo of a brook trout (*Salvelinus fontinalis*) captured within the Project Area (PA).

Photo 2: Representative photo of an Atlantic salmon (*Salmo salar*) captured within the PA.

Photo 3: Representative photo of American eel (*Anguilla rostrata*) captured within the PA.

Photo 4: Representative photo of the trapping location in Peter's River adjacent to the Industrial Project Area (IPA).

Photo 5: Representative photo of the trapping and electrofishing location in WC3-1435 in the Botwood Wind Project Area (BWPA).

Photo 6: Representative photo of the trapping location in WC3-1759 in the BWPA.

Photo 7: Representative photo of the trapping location in WC5-1253 in the BWPA.

Photo 8: Representative photo of the trapping location in WC3-1065 in the BWPA.

Photo 9: Representative photo of the trapping location in WC2-613 in the BWPA.

Photo 10: Representative photo of the trapping location in WC2-648 in the BWPA.

Photo 11: Representative photo of the trapping location in WC3-1679 in the BWPA.

Photo 12: Representative photo of the trapping and electrofishing location in WC3-1041 in the BWPA.

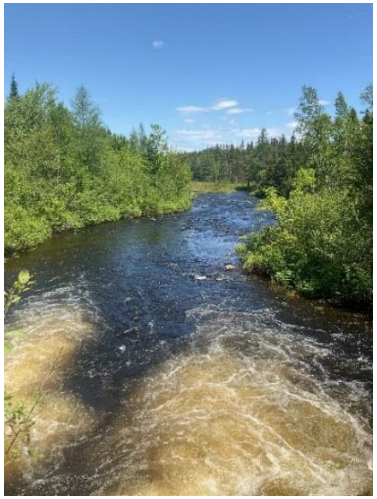


Photo 13: Representative photo of the trapping and electrofishing location in WC5-1623 in the BWPA.

Photo 14: Representative photo of the trapping location in WC2-2926 in the BWPA.

Photo 15: Representative photo of the trapping location in WC3-2133 in the BWPA.

Photo 16: Representative photo of the trapping and electrofishing location in WC13-104 in the BWPA.

Photo 17: Representative photo of the trapping location in WC13-173 in the BWPA.

Photo 18: Representative photo of the trapping location in WC3-587 in the BWPA.

Photo 19: Representative photo of the electrofishing location in WC3-1961 in the BWPA.

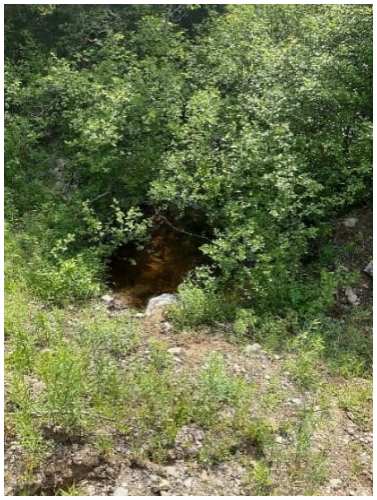


Photo 20: Representative photo of the electrofishing location in WC3-1525 in the BWPA.

Photo 21: Representative photo of the electrofishing location in WC24-31 in the BWPA.

Photo 22: Representative photo of the electrofishing location in WC3-2028 in the BWPA.

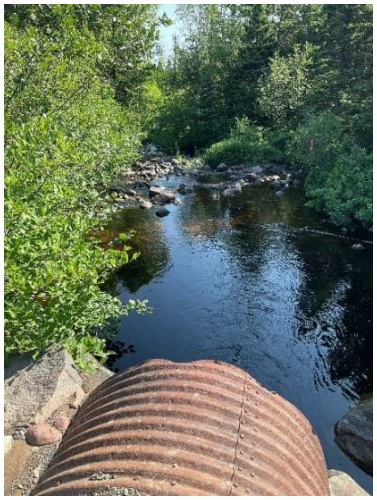


Photo 23: Representative photo of the electrofishing location in WC3-1918 in the BWPA.

Photo 24: Representative photo of the electrofishing location in WC3-1630 in the BWPA.

Photo 25: Representative photo of the electrofishing location in WC13-143 in the BWPA.

Photo 26: Representative photo of the electrofishing location in WC33-12 in the BWPA.

Photo 27: Representative photo of the electrofishing location in WC5-1476 in the BWPA.

Photo 28: Representative photo of the electrofishing location in WC2-2372 in the BWPA.

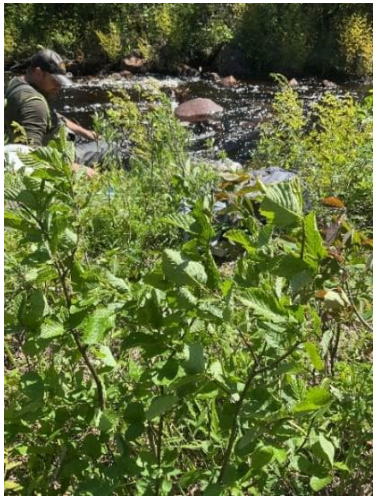


Photo 29: Representative photo of the electrofishing location in WC3-1918 in the BWPA.

Photo 30: Representative photo of the trapping location in WC9-497 in the Seabrights Lake Wind Project Area (SLWPA).

Photo 31: Representative photo of the trapping location in WC10-177 in the SLWPA.

Photo 32: Representative photo of the trapping and electrofishing location in WC10-490 in the SLWPA.

Photo 33: Representative photo of the trapping location in WC8-135 in the SLWPA.

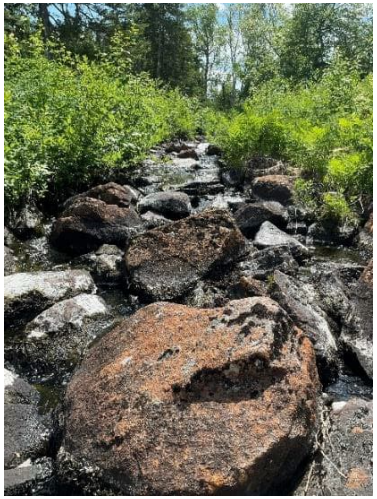


Photo 34: Representative photo of the trapping location in WC2-2315 in the SLWPA.

Photo 35: Representative photo of the electrofishing location in WC9-360 in the SLWPA.

Photo 36: Representative photo of the electrofishing location in WC8-669 in the SLWPA.

Photo 37: Representative photo of the electrofishing location in WC9-156 in the SLWPA.

Photo 38: Representative photo of the trapping and electrofishing location at WC9-363 in the Twin Lakes Wind Project Area (TLWPA).

Photo 39: Representative photo of the trapping location in WC9-482 in the TLWPA.

Photo 40: Representative photo of the trapping location in WC9-607 in the TLWPA.

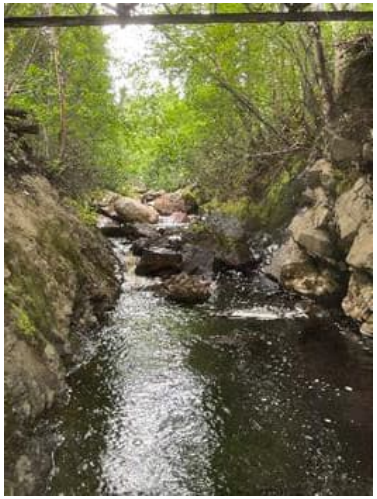


Photo 41: Representative photo of the electrofishing location in WC9-538 in the TLWPA.

Photo 42: Representative photo of the electrofishing location in WC9-607 in the TLWPA.

Photo 48: Representative photo of a threespine stickleback (*Gasterosteus aculeatus*) captured within the PA.

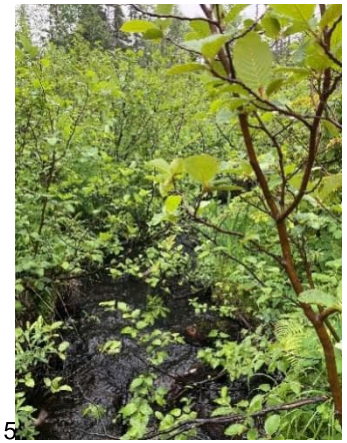
Note: No photos available of May 2025 trapping locations.

Watercourse ID: 9-497 – T_0				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-497 – T_1				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-497– T_2				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID9-156– T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 9-156 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-156 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

5

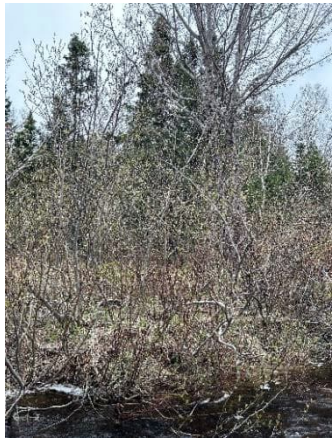
Watercourse ID: 9-538 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
Watercourse ID 9-538 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-538 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1961 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1961 – T_1				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1961 – T_2				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1759 - T_0				
May 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert
				

Watercourse ID 3-1759 - T_1				
May 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Barrier
			5.	

Watercourse ID: 3-1759 - T_2				
May 24, 2024				
Left Bank	Right Bank	Downstream	Upstream	Other/Culvert
				No Photo

Watercourse ID: 3-1314- T_0				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1314 – T_1				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 3-1314 – T_2				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				“No Photo

Watercourse ID: 3-694 - T_0				
May 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID 3-694 - T_1				
May 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-694-T_2				
May 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 1-16832 – T_0				
July 12, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 1-16832 – T_1				
July 12, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 1-16832 – T_2				
July 12, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

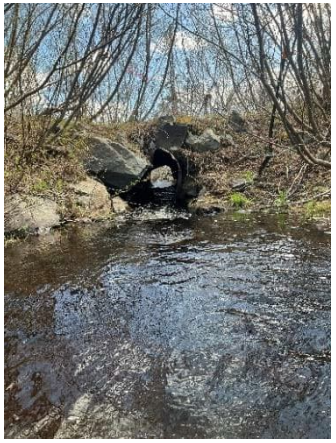
Watercourse ID: 3-1918 – T_0				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 3-1918 – T_1				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

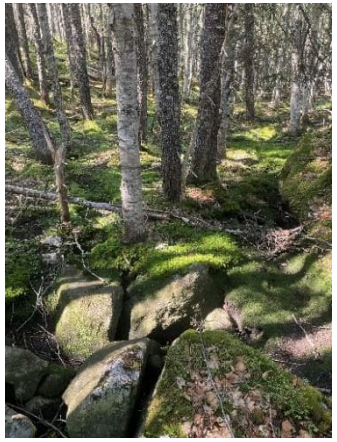
Watercourse ID: 3-1918 – T_2				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-613 - T_0				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
			No Photo	No Photo

Watercourse ID: 2-613 – T_1				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 2-613 – T_2				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/ Culvert
			No Photo	No Photo

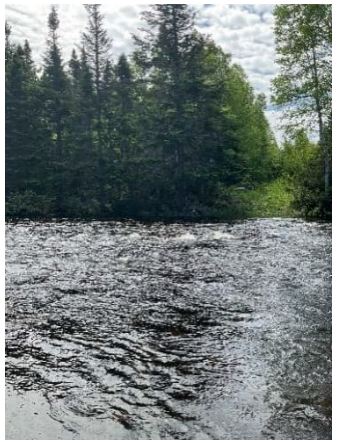
Watercourse ID: 3-1617 – T_0				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				
Watercourse ID: 3-1617 – T_1				
May 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

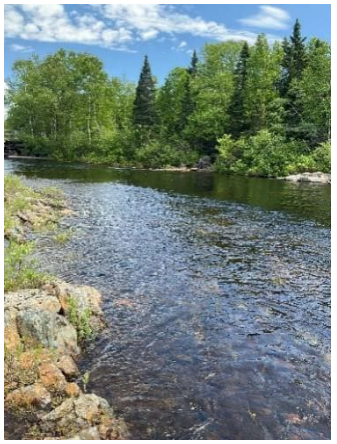
Watercourse ID: 3-1666 – T_0				
July 12, 2024				
Upstream	Downstream	Upstream	Downstream	Other/Culvert
		No Photo	No Photo	No Photo

Watercourse ID: 9-360 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert

Watercourse ID: 9-360 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-360 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

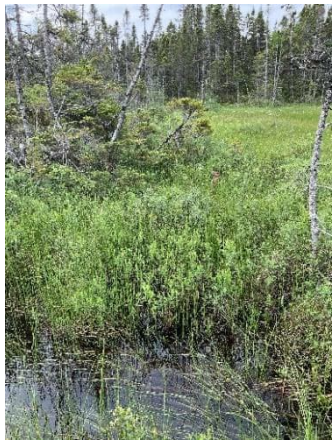
Watercourse ID: 3-2133 (New Bay River) – T_0				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				
Watercourse ID: 3-2133 (New Bay River) - T_1				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-2133 (New Bay River) – T_2				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
				
Watercourse ID: 3-2133 (New Bay River) – T_0				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-2133 (New Bay River) – T_1				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-2133 (New Bay River) – T_2				
July 7, 2024				
Upstream	Downstream	Upstream	Downstream	Other/Culvert
		No Photo	“No Photo”	No Photo

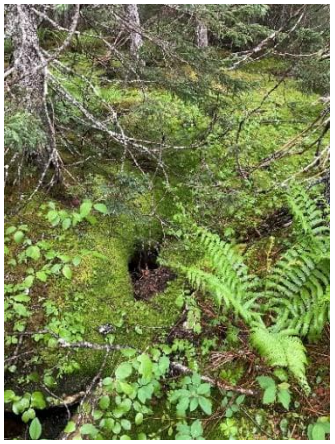
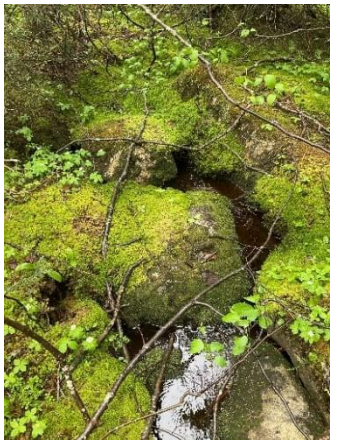
Watercourse ID: 9-482 – T_0				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 9-482 – T_1				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1065 – T_0				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 3-1065 – T_1				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
			No Photo	

Watercourse ID: 3-1065 – T_2				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

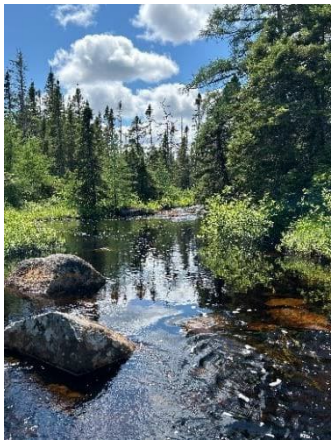
Watercourse ID: 21-53 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

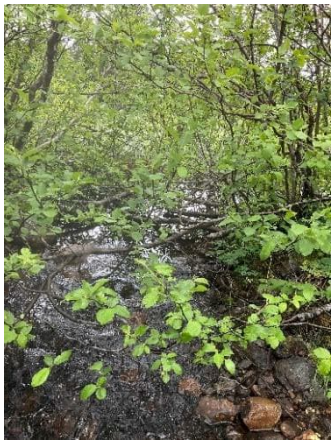
Watercourse ID: 21-53 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 21-53 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo			No Photo

Watercourse ID: 9-532 – T_0				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

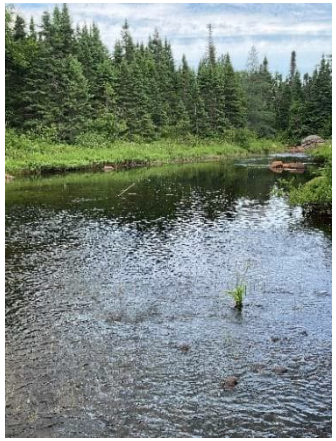
Watercourse ID: 9-532 – T_1				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-532 – T_2				
June 26, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-497 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 9-497 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 9-497 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

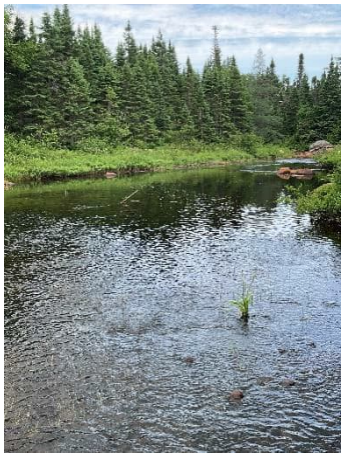
Watercourse ID: 9-607– T_0				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 9-607– T_1				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-607 – T_2				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 9-607 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-607 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

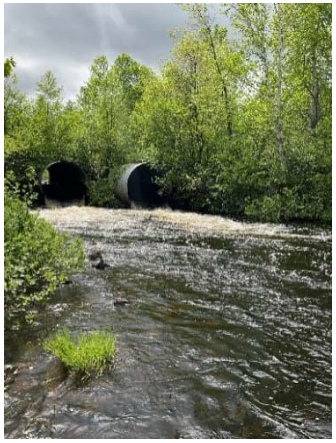
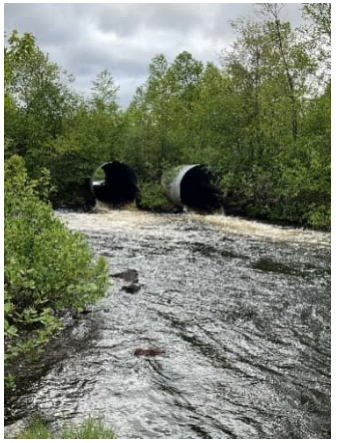
Watercourse ID 9-607 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-607 – T_0				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 9-607 – T_1				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-607 – T_2				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID 3-1065 - T_0				
27th May 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 3-1065 – T_2				
May 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

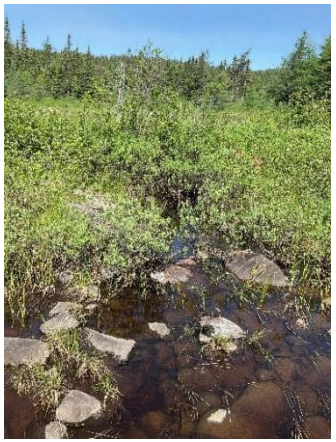
Watercourse ID: 5-1623 (Northern Arm River – T_0				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert
				

Watercourse ID: 5-1623 (Northern Arm River – T_1				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

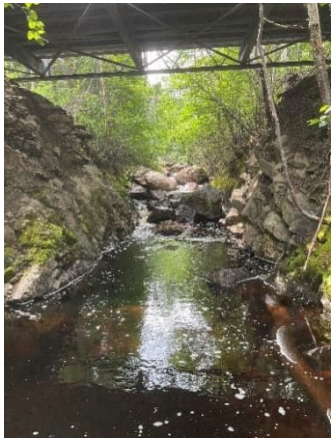
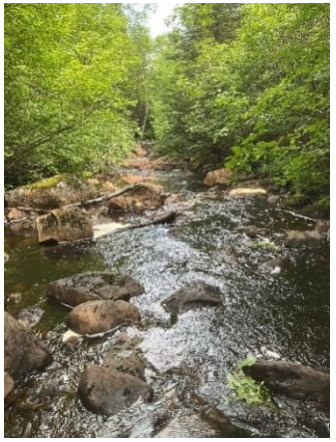
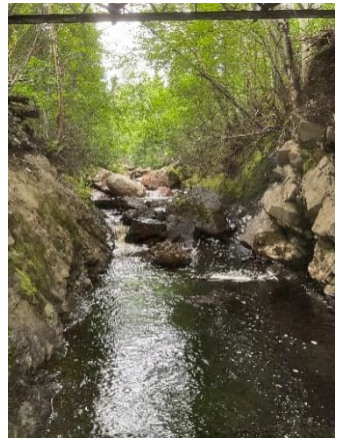
Watercourse ID: 5-1623 (Northern Arm River – T_2				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-482 – T_0				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
Watercourse ID: 9-482 – T_1				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 9-482 – T_2				
June 24, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo		No Photo	No Photo

Watercourse ID: 9-363 – T_0				
June 23, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				

Watercourse ID: 9-363– T_1				
June 23, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 9-363 – T_2				
June 23, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

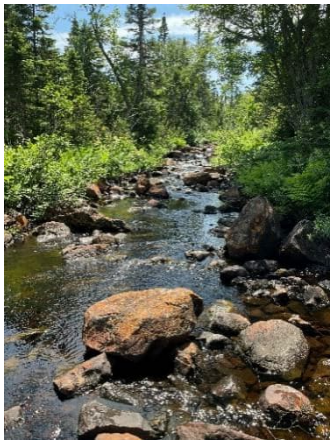
Watercourse ID: 9-532 – T_0				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
				
Watercourse ID: 9-532 – T_1				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 9-532 – T_2				
July 11, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1435 – T_0				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 10-490 – T_{05}				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 10-490– T_1				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 10-490 – T_2				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-1833 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo			No Photo

Watercourse ID 10-177 – T_0				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert
Watercourse: ID 10-177 – T_1				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 10-177 – T_2				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo		No Photo	No Photo

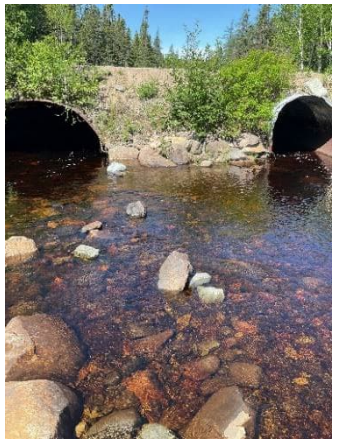
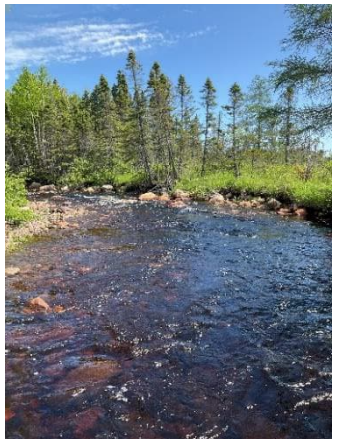
Watercourse ID: 3-594				
June 17-19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo	No Photo	No Photo	

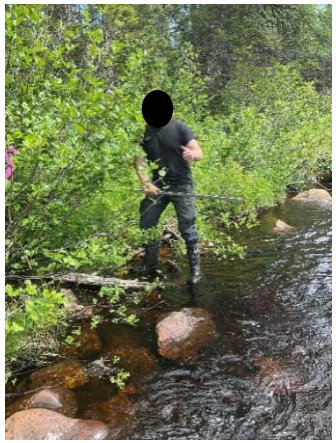
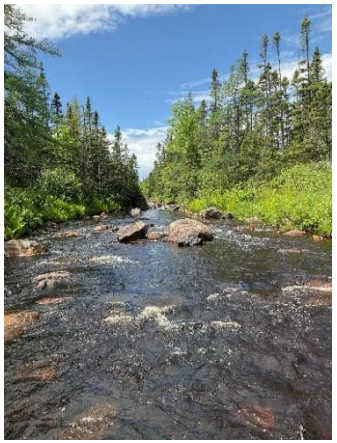
<table>
<tr><th colspan="5">Watercourse ID: 2-613 – T_0</th></tr>
<tr><td colspan="5">June 27, 2024</td></tr>
<tr><td>Left Bank</td><td>Right Bank</td><td>Upstream</td><td>Downstream</td><td>Other</td></tr>
<tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr>
<tr><th colspan="5">Watercourse ID 2-613 – T_1</th></tr>
<tr><td colspan="5">June 27, 2024</td></tr>
<tr><td>Left Bank</td><td>Right Bank</td><td>Upstream</td><td>Downstream</td><td>Other</td></tr>
<tr><td>No Photo</td><td>No Photo</td><td>No Photo</td><td>No Photo</td><td> </td></tr>
</table>

Watercourse ID: 2-613 – T_2				
June 27, 2024				
Upstream	Downstream	Upstream	Downstream	Other/Culvert
		No Photo	No Photo	No Photo
Watercourse ID 8-669 – T_0				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 8-669 – T_1				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 8-669 – T_2				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-2028 – T_0				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				
Watercourse ID: 3-2028 – T_1				
June 17,2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

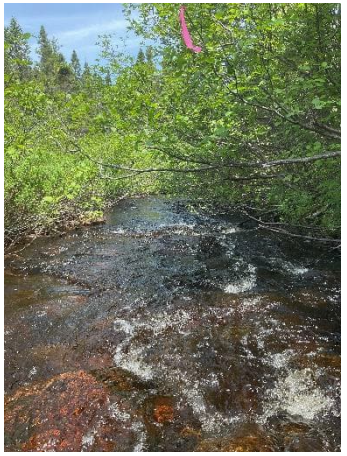
Watercourse ID: 3-2028 – T_2				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

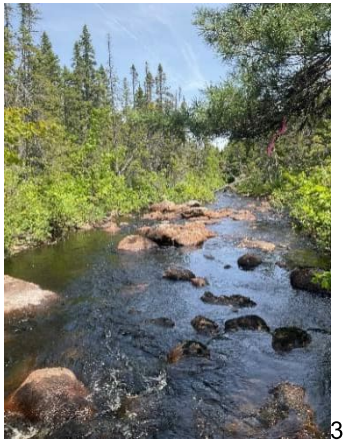
Watercourse ID: 3-1314				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo			

Watercourse ID: 3-587 – T_0				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert
Watercourse ID 3-587 – T_1				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 3-587 – T_2				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo			No Photo

Watercourse ID: 3-1918 (New Bay River) – T_0				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

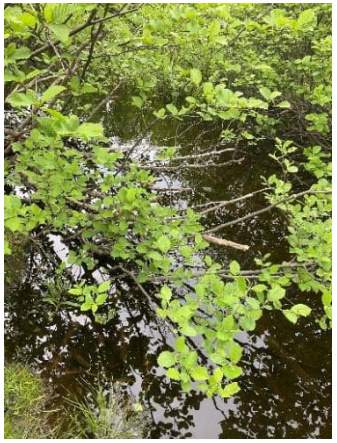
Watercourse ID: 3-1918 (New Bay River) – T_1				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse: ID 3-1918 (New Bay River) – T_2				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 8-135 – T_0				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 8-135 – T_1				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
	No Photo	No Photo	No Photo	No Photo”

Watercourse ID: 8-135 – T_2				
5th July 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo	No Photo		No Photo

Watercourse ID 3-332 – T_0				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				

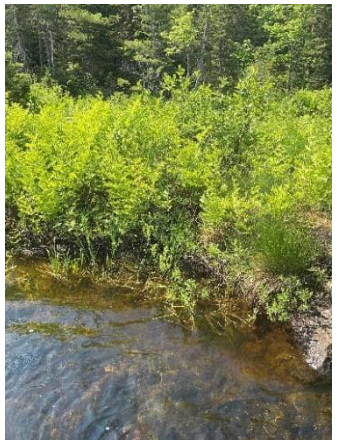
Watercourse ID: 3-1298 – T_0				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

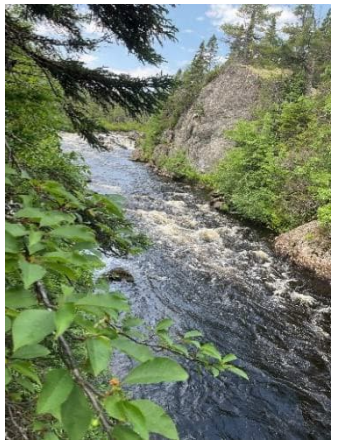
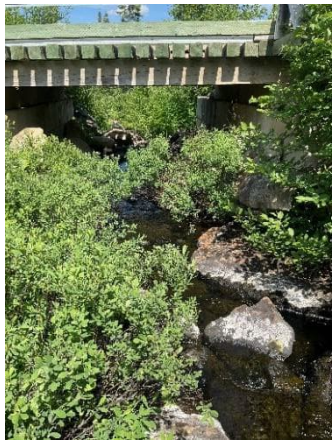
Watercourse ID: 3-1298 – T_1				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
			No Photo	No Photo

Watercourse ID: 3-1298 – T_2				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
No Photo		No Photo	No Photo	No Photo
Watercourse ID: 2-648– T_0				
June 21,2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-648 – T_1				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-648 – T_2				
June 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-2926 (West Arm Brook) – T_0				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 2-2926 (West Arm Brook) – T_1				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-2926 (West Arm Brook) – T_2				
June 27, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
				
Watercourse ID: 2-2315 – T_0				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-2315– T_1				
July 5,2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 2-2315 – T_2				
July 5, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 2-613 – T_0				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 2-613 – T_1				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
		No Photo	No Photo	No Photo

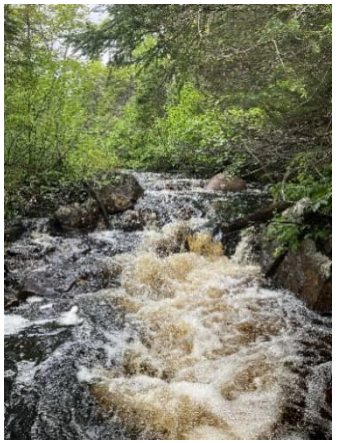
Watercourse ID: 2-613 – T_2				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

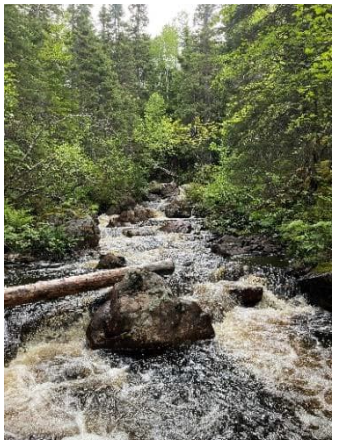
Watercourse ID: 2-708 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

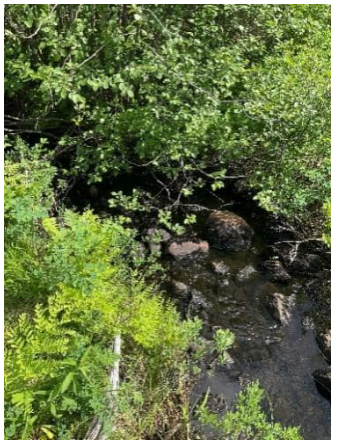
Watercourse ID: 5-1253 – T_0				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
Watercourse ID: 5-1253 – T_1				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 5-1253 – T_2				
June 20, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

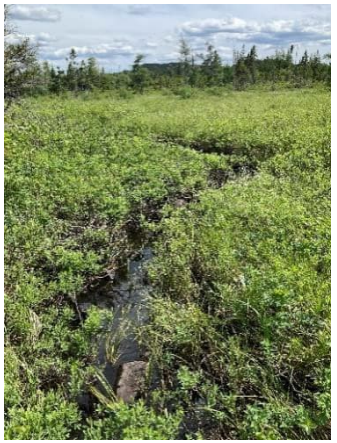
Watercourse ID: 3-694 – T_0				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 5-1476 – T_0				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				
Watercourse ID: 5-1476 – T_1				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 5-1476 – T_2				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1666 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1666 – T_1				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1666 – T_2				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1343 – T_0				
June 19, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
Watercourse ID: 4-2174 Peter's River – T_0				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 4-2174 Peter's River– T_1				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
	No Photo			No Photo

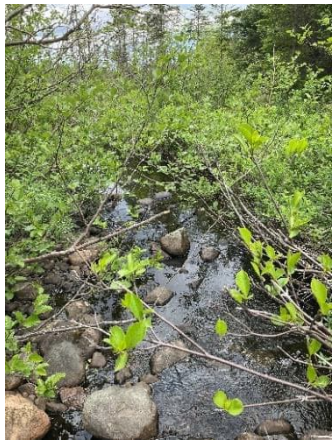
Watercourse ID: 4-2174 Peter's River– T_2				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
	No Photo			

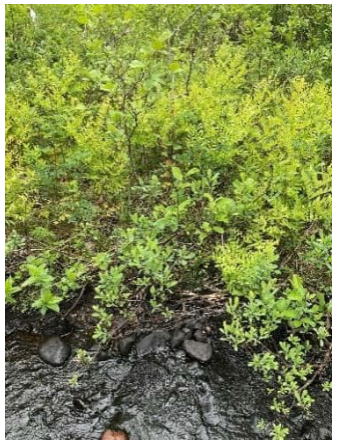
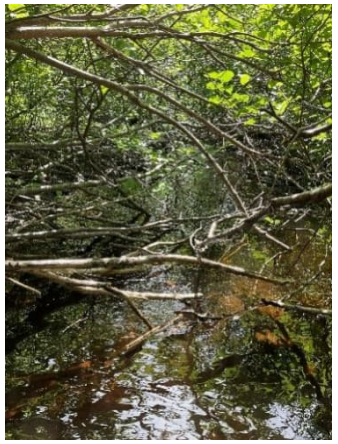
Watercourse ID: 3-1630				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
No Photo	No Photo	No Photo	No Photo	

Watercourse ID: 3-1630 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
				No Photo

Watercourse ID: 3-1630 – T_1				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

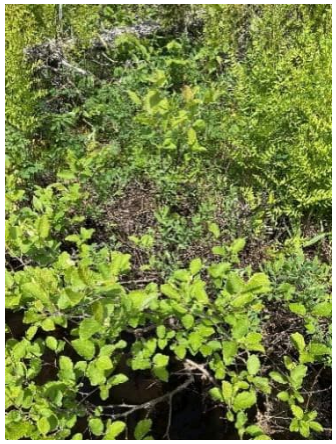
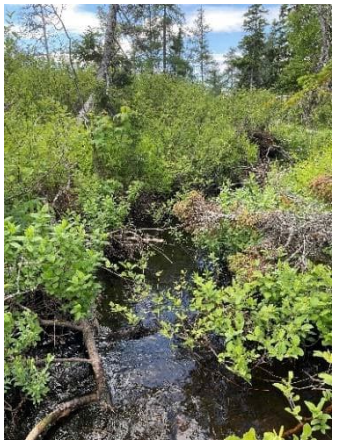
Watercourse ID: 3-1630 – T_2				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 13-143 – T_0				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				
Watercourse ID 13-143 – T_1				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 13-143 – T_2				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 33-12 – T_0				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

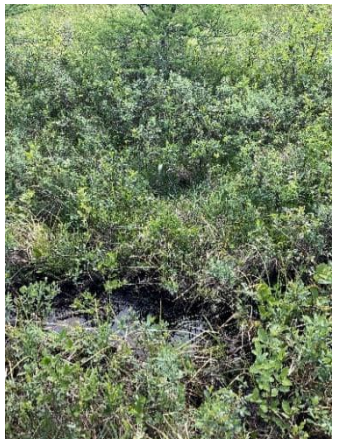
Watercourse ID: 33-12 – T_1				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

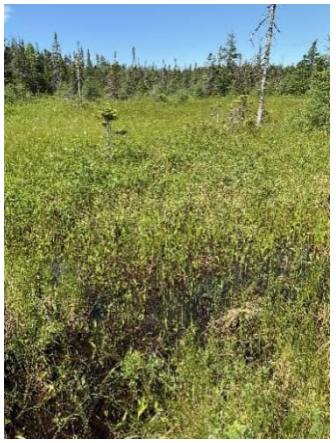
Watercourse ID: 33-12 – T_2				
June 21, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: 13-173 – T_0				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
Watercourse ID: 13-173 – T_1				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 13-173 – T_2				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 7-448 – T_0				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 7-448– T_1				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 7-448 – T_2				
June 22, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 19-69 – T_1				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 19-69 – T_0				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 19-69 – T_2				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 21-53 – T_0				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Culvert/Other

Watercourse ID: 21-53 – T_1				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	
			No Photo	No Photo

Watercourse ID: 21-53 – T_2				
10th July 10,2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 16-10 – T_0				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
Watercourse ID: 16-10 – T_1				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 16-10 – T_2				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo		No Photo	No Photo	
Watercourse ID 18-64 – T_0				
9th July 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Culvert

Watercourse ID: 18-64 – T_1				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID 18-64 – T_1				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
No Photo	No Photo		No Photo	

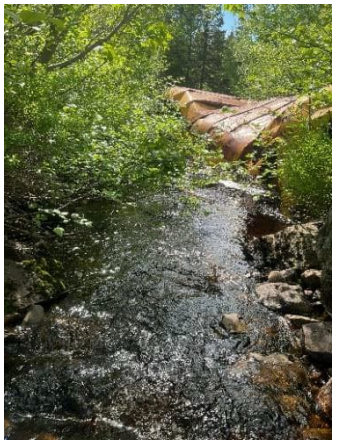
Watercourse ID 30-13 – T_0				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
		No Photo	No Photo	
Watercourse ID 30-13 – T_1				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID30-13– T_2				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
			No Photo	
Watercourse ID: 31-14 – T_0				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 31-14 – T_1				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

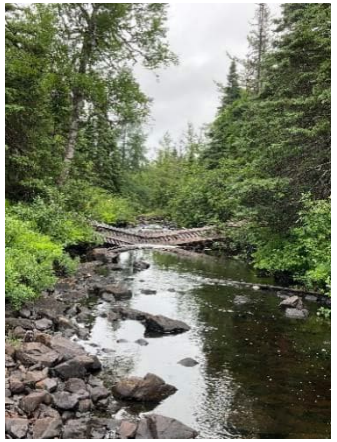
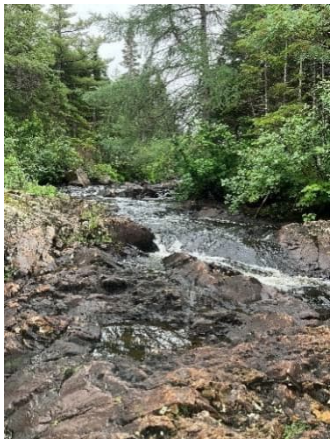
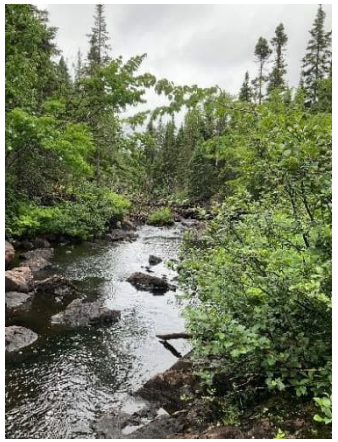
Watercourse ID: 31-14 – T_2				
July 9, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 19-69 – T_0				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 19-69– T_1				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 19-69 – T_2				
July 10, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 3-1759– T_0				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other
				

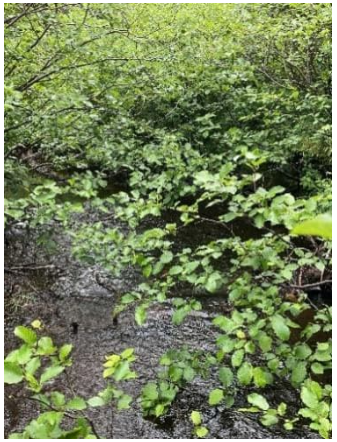
Watercourse ID: 3-1759– T_1				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1759– T_2				
June 17, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Photo
				No Photo

Watercourse ID: 2-569– T_0				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Barrier
				
Watercourse ID: 2-569 – T_1				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

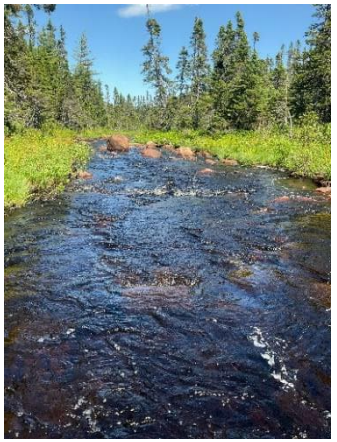
Watercourse ID: 2-569 – T_2				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

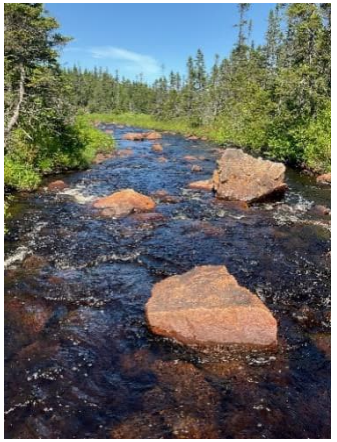
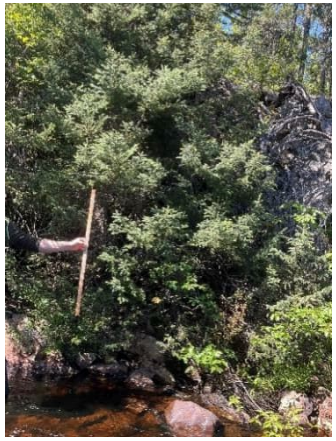
Watercourse ID: 2-2372 – T_0				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other

Watercourse ID: 2-2372 – T_1				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 2-2372 – T_2				
July 7, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
	No Photo			No Photo

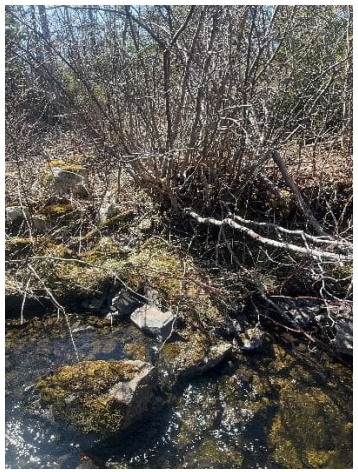
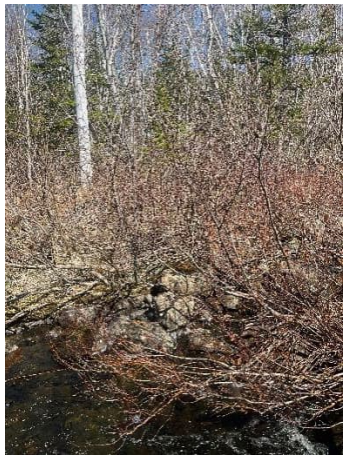
Watercourse ID Peters River - T_0				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert

Watercourse ID: Peters River – T_1				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: Peters River – T_2				
June 16, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 3-1918 – T_0				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 3-1918 – T_1				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 3-1918– T_2				
June 18, 2024				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 12-373 – T_0				
May 15,2025				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo
Watercourse ID: 12-373 – T				
May 15,2025				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

Watercourse ID: 12-373 – T_2				
May 15,2025				
Left Bank	Right Bank	Upstream	Downstream	Other/Culvert
				No Photo

APPENDIX D
FIELD RESULTS

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
3-1435	Sunny	0	18.6	4.81	52.5	24.6	5.03	1.67	Minnow traps (4)	20.3	No Fish Caught	
3-1759	Sunny	65	20.6	8.27	92.3	32.2	6.62	0.65	Minnow traps (2)	20	No Fish Caught	
5-1253	Sunny	0	23.5	5.48	65.3	44.6	6.23	0.51	Minnow traps (6)	19.5	No Fish Caught	
3-1065	Sunny	NA	17.5	6.95	74.9	33.9	5.4	1.13	Minnow traps(8)	20	No Fish Caught	
2-613	Sunny	0	23.5	7.02	82.5	26.5	5.4	NA	Minnow traps (4)	20	No Fish Caught	
2-648	Sunny	NA	16.3	8.01	81	7.81	7.81	NA	Minnow traps (4)	23	No Fish Caught	
3-1679	Sunny, Cloudy, Partly Cloudy	5	21.6	6.22	69.6	30.5	6.52	NA	Minnow traps (4)	20.8	Brook Trout	130
											Brook Trout	150
											Brook Trout	165
3-1041	Cloudy, Partly Cloudy	5	20.8	6.22	69.6	30.5	6.52	NA	Minnow traps	20.4	Brook Trout	130
9-363	Rain	5	NA	NA	94.1	26	5.94	NA	Minnow traps (4)	22.3	No Fish Caught	
9-482	Cloudy	5	NA	NA	NA	NA	NA	0.54	Minnow trap	19.9	Brook Trout	155
											Brook Trout	142
											Brook Trout	145
											Brook Trout	135
											Brook Trout	175
											Brook Trout	179
											Brook Trout	143
9-497	Overcast	20	NA	NA	NA	NA	NA	2.35	Minnow traps (4)	23.5	Brook Trout	136
5-1623 (Northern Arm River)	Cloudy	0	NA	NA	NA	NA	NA	NA	Fyke net (1) and Minnow Traps (4)	13	Atlantic Salmon	120
											Atlantic Salmon	91
											Atlantic Salmon	93
											Atlantic Salmon	100
											Atlantic Salmon	88
											Atlantic Salmon	89
											Atlantic Salmon	130
											Atlantic Salmon	92
											Atlantic Salmon	100
											Atlantic Salmon	109
											Atlantic Salmon	108
											Atlantic Salmon	107
											Atlantic Salmon	102
10-177	NA	175	23	7.23	83.2	35.7	5.51	NA	Minnow trap (1)	20	No Fish Caught	
10-490	Sunny	0	18.7	8.6	91.5	24.4	6.58	1.94	Minnow trap (6)	23	Brook Trout	110

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
2-2926 (West Arm Brook)	Cloudy	10	20.9	8.88	99.9	22.4	6.77	0.95	Fyke net & Minnow Traps (4)	23	American Eel	300
											American Eel	350
											American Eel	400
											American Eel	250
											American Eel	350
											American Eel	200
											American Eel	300
											American Eel	150
											American Eel	500
											American Eel	320
											American Eel	300
											American Eel	450
											American Eel	220
											American Eel	350
											American Eel	250
											American Eel	380
											American Eel	280
											American Eel	400
											American Eel	400
											American Eel	380
											American Eel	400
											Atlantic Salmon	135
											Atlantic Salmon	74
											Atlantic Salmon	66
											Atlantic Salmon	76
											Atlantic Salmon	63
											Atlantic Salmon	74
											Atlantic Salmon	86
											Atlantic Salmon	122
											Atlantic Salmon	87
											Atlantic Salmon	115
											Atlantic Salmon	56
											Atlantic Salmon	64
											Atlantic Salmon	96
											Atlantic Salmon	98
											Atlantic Salmon	87
											Atlantic Salmon	124
											Atlantic Salmon	117
											Atlantic Salmon	118
											Atlantic Salmon	82
											Atlantic Salmon	113
											Atlantic Salmon	77
											Atlantic Salmon	67
											Atlantic Salmon	146
											Atlantic Salmon	135

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
3-2133 (New Bay River)	Sunny	200	20.9	8.8	97.8	25	6.93	0.39	Fyke net	18	American Eel	400
											American Eel	400
											American Eel	400
											American Eel	400
											American Eel	400
											American Eel	450
											American Eel	450
											Atlantic Salmon	74
											Atlantic Salmon	71
											Atlantic Salmon	65
											Atlantic Salmon	125
											Atlantic Salmon	74
											Atlantic Salmon	72
											Atlantic Salmon	64
											Atlantic Salmon	74
											Atlantic Salmon	129
											Atlantic Salmon	145
											Atlantic Salmon	154
											Atlantic Salmon	120
											Atlantic Salmon	92
											Atlantic Salmon	156
											Atlantic Salmon	60
											Atlantic Salmon	55
											Atlantic Salmon	70
											Atlantic Salmon	72
											Atlantic Salmon	76
											Atlantic Salmon	68
											Atlantic Salmon	90
											Atlantic Salmon	71
											Atlantic Salmon	83
											Atlantic Salmon	118
											Atlantic Salmon	136
											Atlantic Salmon	69
											Atlantic Salmon	126
											Atlantic Salmon	135
											Atlantic Salmon	122
											Atlantic Salmon	125
8-135	Sunny	0	19.1	1.65	13	111	5.88	0.15	Minnow traps (4)	18.5	No Fish Caught	
2-2315	Sunny	0	27.3	6.56	84.4	32.6	6.11	0.41	Minnow trap	17.5	No Fish Caught	
13-104	Sunny	15	17	8.71	86.4	50.6	6.49	11.9	Minnow traps (4)	21.5	Brook Trout	52
											Brook Trout	112
											Brook Trout	72
13-173	Sunny	15	24.2	6.92	83.5	51.6	6.8	4.88	Minnow trap	21.7	No Fish Caught	

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
4-2174 (Peter's River)	Drizzle	15	NA	NA	NA	NA	NA	1.27	Fyke net	19	American Eel	450
											American Eel	500
											American Eel	250
											American Eel	150
											American Eel	180
											Atlantic Salmon	100
											Atlantic Salmon	350
											Atlantic Salmon	110
											Atlantic Salmon	95
											Atlantic Salmon	165
											Atlantic Salmon	130
											Atlantic Salmon	135
											Atlantic Salmon	148
											Atlantic Salmon	87
											Atlantic Salmon	127
											Atlantic Salmon	156
											Atlantic Salmon	450
3-587	Sunny	10	19	6.77	72.1	53.8	6.43	1.94	Minnow traps (4)	19.03	No Fish Caught	
9-607	Partly Cloudy	5	23.9	7.52	89.1	31.2	6.49	1.17	Minnow trap	19.25	No Fish Caught	
9-532	Overcast	10	20.3	7.64	84.4	30.2	6.89	0.57	Minnow trap (6)	22.5	Brook Trout	111
Rocky Pond	Partly Cloudy	NA	6.52	9.35	NA	86.4	6.52	NA	Minnow trap (5)	100	No Fish Caught	
30-13	Partly Cloudy	NA	6.56	10.04	NA	77.7	6.56	NA	Minnow trap (5)	90	Brook Trout	120
											Brook Trout	125

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
Peters Pond	Partly Cloudy	NA	9.7	10.04	NA	77.7	6.56	NA	Minnow trap (5)	102.5	3-spine stickleback	43
											3-spine stickleback	50
											3-spine stickleback	45
											3-spine stickleback	33
											3-spine stickleback	53
											3-spine stickleback	44
											3-spine stickleback	30
											3-spine stickleback	42
											3-spine stickleback	39
											3-spine stickleback	53
											3-spine stickleback	50
											3-spine stickleback	48
											3-spine stickleback	40
											3-spine stickleback	35
											3-spine stickleback	47
											3-spine stickleback	44
											3-spine stickleback	48
											3-spine stickleback	44
											3-spine stickleback	38
											3-spine stickleback	30
											3-spine stickleback	53
											3-spine stickleback	41
											3-spine stickleback	35
											3-spine stickleback	39
											3-spine stickleback	41
											3-spine stickleback	39
											3-spine stickleback	41
											3-spine stickleback	34
											3-spine stickleback	45
											3-spine stickleback	41
											3-spine stickleback	39
											3-spine stickleback	40
											3-spine stickleback	47

Watercourse ID	Weather	Rainfall Amount in last 24 Hours (mm)	Water Chemistry						Survey		Species	ForkLength (mm)
			Water Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Conductivity (mS/cm)	pH	Turbidity (FNU)	Method	Trap Time (Hours)		
15-104	Partly Cloudy	NA	8.7	13.03	NA	51.8	6.9	NA	Minnow trap (5)	100	3-spine stickleback	60
											3-spine stickleback	60
											3-spine stickleback	60
											3-spine stickleback	61
											3-spine stickleback	66
											3-spine stickleback	57
											3-spine stickleback	57
											Atlantic Salmon	105
											Brook Trout	115
											3-spine stickleback	56
											3-spine stickleback	63
											Atlantic Salmon	46
											Atlantic Salmon	84
											3-spine stickleback	60
											3-spine stickleback	59
											3-spine stickleback	58
											3-spine stickleback	51
											3-spine stickleback	46
											3-spine stickleback	57
											3-spine stickleback	57
											3-spine stickleback	56
											3-spine stickleback	57
											3-spine stickleback	50
Flowers Pond	Partly Cloudy	NA	11.8	11.8	NA	23.7	6.35	NA	Minnow trap (5)	115	3-spine stickleback	35
											3-spine stickleback	68
											3-spine stickleback	37
											3-spine stickleback	65
											3-spine stickleback	67
											3-spine stickleback	27
											3-spine stickleback	32
											3-spine stickleback	55
											3-spine stickleback	34
											3-spine stickleback	35
											3-spine stickleback	6
											3-spine stickleback	28
											3-spine stickleback	33
											3-spine stickleback	48
											3-spine stickleback	68
											3-spine stickleback	56
											3-spine stickleback	55
											3-spine stickleback	38
											3-spine stickleback	52
											3-spine stickleback	57
											3-spine stickleback	54
											3-spine stickleback	58
											3-spine stickleback	64
											3-spine stickleback	56
											3-spine stickleback	57
											3-spine stickleback	57
											3-spine stickleback	58
											3-spine stickleback	62
											3-spine stickleback	66
											3-spine stickleback	57
											3-spine stickleback	28

Watercourse ID	Latitude	Longitude	Epifaunal Substrate (%)									Channel Measurements									Habitat Type (%)					Substrate (%)						
			Small Woody Debris	Large Woody Debris	Boulder	Undercut	Deep Pool	Overhanging Vegitation	Instream Vegitation	Canopy Cover	Water Depth >0.5 m	Water Level at Survey Time	Channel Width (m)	Wetted Width (m)	Maximum Depth (m)	Bank Height (m)	Bankfull Depth (m)	Gradient (degrees)	Number of Pools	Velocity (m/s)	Mean Depth (m)	Pool	Riffle	Run	Other	Other	Organic	Fine	Sand	Gravel	Cobble	Boulder	Bedrock
4-2174 (Peter's River)	49.10280556	-55.40024971	6.7	5.0	20.0	13.3	8.3	26.7	8.3	5.0	51.7	High	19.75	19.75	0.68	3.7	1.35	1.67	2.33	1.24	0.5	10	33.33	56.67	0		1.70%	5.00%	6.70%	15.00%	56.70%	15.00%	0.00%
9-497	49.33649109	-55.70756873	0.0	0.0	0.0	0.0	100.0	8.3	56.7	0.0	85.0	Medium	2.1	2.15	1.2	0.15	1.35	1.33	1	0.12	0.89	100	0	0	0		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
9-156	49.34395553	-55.72757538	28.3	1.7	20.7	1.7	13.3	73.3	1.7	56.7	13.3	Medium	4.23	3.33	0.36	0.78	1.12	5.67	1.33	0.32	0.16	14.33	31	51.33	0		0.00%	0.00%	16.70%	20.00%	30.00%	33.30%	0.00%
9-538	49.34762348	-55.73852041	13.3	3.3	26.7	13.3	33.3	18.3	10.0	3.3	43.3	Medium	5.1	4.9	0.56	0.28	0.83	3	1.67	0.44	0.27	40	18.33	41.67	0		3.30%	3.30%	11.70%	18.30%	28.30%	35.00%	0.00%
3-1961	49.12622538	-55.59437574	26.7	8.3	21.7	0.0	20.0	46.7	0.0	41.7	13.3	Medium	1.17	1.73	0.33	0.23	0.52	3.67	1	0.11	0.18	28.33	31.67	40	0		20.00%	16.70%	1.70%	11.70%	36.70%	13.30%	0.00%
3-1759	49.13686103	-55.59978649	6.7	5.0	28.3	43.3	3.3	46.7	3.3	21.7	10.2	High	4.93	3.12	0.5	0.26	0.76	1	1	0.32	0.25	1.67	85	6.67	6.67		5.00%	1.70%	10.00%	31.70%	33.30%	18.30%	0.00%
3-1314	49.12087549	-55.5351189	41.7	8.3	8.3	0.0	18.3	55.0	8.3	23.3	0.0	Medium	0.95	0.89	0.28	0.13	0.42	5	1	0.13	0.2	26.67	63.33	6.67	3.33	waterfall	61.70%	26.70%	0.00%	0.00%	5.00%	6.70%	0.00%
3-694	49.12187908	-55.59142207	31.7	15.0	5.0	21.7	3.3	60.0	30.0	31.7	5.1	High	2.53	2.4	0.45	0.08	0.33	0.75	1	0.33	0.3	1.67	31.67	66.67	0		23.30%	0.00%	13.30%	13.30%	21.70%	28.30%	0.00%
3-1065	49.10553855	-55.60371163	3.3	3.3	5.0	0.0	0.0	38.3	71.7	1.7	0.0	Medium	3.18	2.23	0.32	0.12	1.23	1	0.33	0.08	0.86	0	0	100	0		45.00%	33.30%	1.70%	5.00%	6.70%	8.30%	0.00%
1-16832	49.22433815	-55.88337624	40.0	15.0	62.5	0.0	0.0	40.0	15.0	40.0	0.0	Low	0.8	0.44	0.18	0.23	0.39	1	0	0.06	0.12	0	15	85	0		0.00%	45.00%	0.00%	0.00%	0.00%	55.00%	0.00%
3-1918	49.17125645	-55.39529437	18.3	16.7	5.0	23.3	8.3	18.3	5.0	75.0	0.0	Medium	2.37	2.07	0.25	0.21	0.46	2.67	3.33	1.53	0.17	8.33	43.33	48.33	0		0.00%	6.70%	23.30%	26.70%	40.00%	3.30%	0.00%
2-613	49.15782337	-55.5996807	11.7	3.3	6.7	6.7	20.0	41.7	31.7	38.3	5.0	Medium	2.75	3.28	0.64	0.14	0.77	0.5	1.33	0.05	0.2	13.33	3.33	83.33	0	Opens to pond	31.70%	31.70%	5.00%	11.70%	11.70%	8.30%	0.00%
3-1617	49.22191863	-55.58059989	7.5	5.0	35.0	0.0	20.0	17.5	25.0	0.0	10.0	Medium	3.03	2.64	0.35	0.16	0.51	6	0.5	0.25	0.2	25	20	35	0		15.00%	2.50%	0.00%	12.50%	50.00%	20.00%	0.00%
3-1666	49.22174224	-55.88317817	Wetland																														
9-360	49.36190595	-55.77261278	11.7	12.0	58.3	1.7	5.0	12.5	6.7	45.0	0.0	Medium	2.68	1.65	0.24	0.75	0.97	6.33	4.33	0.15	0.17	43.33	31.67	25	0		0.00%	1.70%	10.00%	5.00%	23.30%	60.00%	0.00%
3-2133 (New Bay River)	49.18620805	-55.52427744	10.0	6.0	42.5	0.0	32.5	5.0	7.5	0.0	55.0	Medium	22.75	20.95	1.24	0.69	1.48	1.5	1	0.6	0.34	35	15	50	0		2.50%	2.50%	0.00%	32.50%	20.00%	42.50%	0.00%
9-482	49.22700563	-55.84062705	0.0	0.0	0.0	0.0	0.0	20.0	80.0	0.0	0.0	Medium	1.12	1.12	0.3	0.01	0.31	1	0	0.05	0.13	0	0	0	100	wetland	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3-1065	49.21877522	-55.85843167	30.0	15.0	18.3	56.7	0.0	30.3	0.0	91.7	0.0	Medium	1.06	1.17	0.13	0.36	0.49	5	3.5	0.1	0.09	43.33	30	20	6.67	cascade cascade	1.70%	0.00%	35.00%	38.30%	6.70%	18.30%	0.00%
21-53	49.33128577	-55.73372362	20.0	5.0	30.0	0.0	5.0	55.0	0.0	55.0	0.0	Low	0.74	0.74	0.11	0.06	0.17	2.5	1	0.01	0.09	10	10	10	70	stagnant water wetland	25.00%	25.00%	0.00%	0.00%	0.00%	50.00%	0.00%
9-532	49.26020548	-55.83623294	6.7	5.0	60.0	0.0	21.7	20.0	6.7	10.7	5.0	Medium	6.63	6.53	0.52	0.18	0.7	3.33	2.5	0.51	0.26	20	38.33	38.33	0		3.30%	3.30%	0.00%	3.30%	28.30%	61.70%	0.00%
9-497	49.33641652	-55.72430888	6.0	5.0	45.0	0.0	0.0	45.0	17.5	10.0	0.0	Medium	3.06	3.06	0.37	0.22	0.58	7.5	2	0.48	0.12	20	45	25	10	rapids	0.00%	2.50%	2.50%	10.00%	30.00%	55.00%	0.00%
9-607	49.35155209	-55.74508216	5.0	4.0	5.7	5.0	3.3	5.0	5.7	3.3	0.0	Medium	10.56	9.67	0.69	0.28	0.97	1.67	1.67	0.22	0.24	5	20	75	0		0.00%	0.00%	11.70%	36.70%	45.00%	6.70%	0.00%
5-1623 (Northern Arm River)	49.08824191	-55.58812267	10.0	3.3	13.3	0.7	5.0	11.7	10.0	5.0	8.3	High	19.8	19.63	0.52	0.32	0.57	2.33	2.67	0.81	0.33	6.67	35	55	3.33		0.00%	0.00%	8.30%	11.70%	68.30%	18.30%	0.00%
9-482	49.3562817	-55.75811843	12.5	17.5	52.5	10.0	10.0	12.5	0.0	52.5	10.0	Medium	3.05	2.69	0.66	0.73	1.39	20	8	0.38	0.2	32.5	0	2.5	65	rapids rapids	0.00%	0.00%	2.50%	5.00%	17.50%	32.50%	42.50%
9-363	49.35346104	-55.77878943	16.7	5.0	0.0	33.3	33.3	60.0	16.7	25.0	33.3	Medium	1.48	0.92	0.39	0.17	0.56	1.67	1.33	0.08	0.51	50	13.33	3.33	66.67	wetland wetland	25.00%	11.70%	1.70%	15.00%	13.30%	0.00%	33.30%
9-532	49.36059314	-55.76856654	5.0	10.0	70.0	0.0	3.5	12.5	0.0	22.5	15.0	Medium	8.57	5.17	0.37	1.67	1.97	4.5	3.67	0.31	0.21	18.33	45	16.67	20	cascade cascade	0.00%	0.00%	8.30%	21.70%	15.00%	36.70%	18.30%
3-1759	49.17627914	-55.53191302	6.7	3.3	33.3	1.7	26.7	36.7	3.3	30.0	36.7	High	2.43	2.37	0.48	1.33	1.82	2.33	4.33	0.26	0.3	13.33	16.67	46.67	23.33	rapids rapids	0.00%	16.70%	5.00%	43.30%	3.30%	31.70%	0.00%
3-1435	49.16808719	-55.5259026	30.0	21.0	6.7	2.5	33.3	46.7	46.7	21.7	0.0	Medium	0.93	0.9	0.25	0.43	0.62	1	0	0	0.17	1.67	1.67	30	66.67	stagnant water wetland	45.00%	20.00%	3.30%	11.70%	16.70%	3.30%	0.00%
5-1623	49.09186077	-55.57235019	Bog - no watercourse																														
10-490	49.32501804	-55.6877611	6.7	0.0	66.7	0.0	6.7	26.7	0.0	35.0	6.7	Medium	6.9	4.57	0.3	0.46	0.73	3	2.33	0.33	0.17	13.33	48.33	38.33	0		0.00%	0.00%	0.00%	10.00%	33.30%	56.70%	0.00%
2-1833	49.22913406	-55.52430012	Bog - still water																														
10-177	49.32598509	-55.67749577	7.5	0.0	0.0	0.0	0.0	100.0	40.0	50.0	0.0	Low	3.5	3	0.25	0.19	0.43	1	0.5	0	0.14	20	0	0	80	wetland	55.00%	2.50%	0.00%	22.50%	15.00%	5.00%	0.00%
3-594	49.18509147	-55.51762634	Ephemeral																														
2-613	49.23480372	-55.55703931	5.0	5.0	30.0	10.0	30.0	15.0	40.0	0.0	25.0	Medium	1	1	0.51	0.25	0.78	6	2	0.25	0.08	30	45	15	0		0.00%	5.00%	10.00%	25.00%	30.00%	30.00%	0.00%
8-669	49.3117821	-55.63284677	0.3	10.0	20.0	0.0	3.3	3.3	1.7	0.0	3.3	Medium	16.05	13.3	0.5	1.83	2.33	4.67	4	0.16	0.28	20	20	51.67	8.33	rapids rapids	0.00%	0.00%	3.30%	16.70%	20.00%	21.70%	38.30%
3-2028	49.15340464	-55.60382904	5.0	2.0	25.0	3.3	4.7	16.7	1.0	1.7	1.7	Medium	14	13.8	0.66	0.18	0.84	1	2	0.56	0.27	13.33	43.33	43.33	0		1.70%	0.00%	5.00%	20.00%	41.70%	25.00%	6.70%
3-1314	49.19856259	-55.59672934	Ephemeral																														
3-587	49.18748369	-55.6119556	22.5	5.0	15.0	35.0	10.0	90.0	2.5	12.5	5.0	Medium	2.32	2.08	0.39	0.45	0.89	2	1	0.2	0.34	15	10	35	40	stagnant water	0.00%	7.50%	32.50%	25.00%	20.00%	15.00%	0.00%
3-1918 (New Bay River)	49.1745455	-55.61258421	6.7	3.3	33.3	0.0	14.3	25.0	1.7	23.8	0.0	Medium	5.2	5.1	0.59	0.96	1.68	4.67	1	0.52	0.19	13.33	78.33	8.33	0		0.00%	1.70%	6.70%	10.70%	21.00%	60.00%	0.00%
8-135	49.30151846	-55.58172084	5.0	5.0	5.0	0.0	0.0	20.0	30.0	5.0	0.0	Medium	3.2	3.2	0.42	0.1	0.52	0	0	0	0.31	100	0	0	0		50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3-332	49.2226996	-55.56925309	30.0	40.0	5.0	0.0	100.0	80.0	15.0	10.0	50.0	Not recorded	NA	NA	NA	NA	NA	NA	0	0	0.22	100	0	0	0	beaver dam bog hole	65.00%	35.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3-1298	49.21078373	-55.56826819	5.0	20.0	0.0	0.0	100.0	10.0	70.0	0.0	0.0	High	6	6	0.15	0.2	0.35	0	1	0	0.12	100	0	0	0		25.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2-648	49.22892158	-55.55830189	30.0	6.7	0.0	0.0	13.3	36.7	33.3	25.0	20.3	Low	2.6	2.6	0.19	0.17	0.34	1.33	1.33	0.04	0.13	33.33	23.33	43.33	0		46.70%	23.30%	0.00%	6.70%	23.30%	0.00%	0.00%
2-2926 (West Arm Brook)	49.26916741	-55.54566852	6.7	8.3	35.0	0.0	23.3	20.0	1.7	10.0	26.7	Medium	25	24.5	0.99	4.4	5.39	2	1	0.59	0.51	25	50	25	0		0.00%	0.00%	3.30%	15.00%	38.30%	40.00%	3.30%
2-2315	49.29879318	-55.559979	6.7	1.7	100.0	1.7	0.0	5.7	6.7	0.0	0.0	Medium	3.88	3.63	0.19	0.4	0.59	1.5	3	0.16	0.21	13.33	33.33	53.33	0		1.70%	6.70%	0.00%	0.00%	0.00%	91.70%	0.00%
2-613	49.23248887	-55.55565322	53.3	3.3	3.3	3.3	13.3	48.3	16.7	15.0	10.5	Medium	1.28	1.2	0.17	0.11	0.25	6.53	1.5	0.3	0.17	8.33	6.67	85	0		50.00%	83.30%	0.00%	0.00%	23.30%	3.30%	0.00%
2-708	49.23144195	-55.53653121	80.0	10.0	10.0	0.0	0.0	100.0	0.0	40.0	0.0	Low	1.5	0	0.23	0.1	0.33	3	0	0	0.2	0	0	0	100		15.00%	15.00%	0.00%	0.00%	50.00%	0.00%	0.00%
5-1253	49.13870855	-55.5312068	10.0	3.3	3.3	6.7	8.3	90.0	40.0	28.3	0.0	Medium	1.17	1.02	0.31	0.15	0.39	0.5	1.67	0.03	0.25	60	6.67	1.67	33.33	wetland	36.70%	13.30%	8.30%	28.30%	10.00%	3.30%	0.00%
3-694	49.17458306	-55.50376772	50.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	High	1	1	0.5	0.1	0.6	2	0	0.03	0.39	0	0	0	100		25.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5-1476	49.14197667	-55.48652051	23.3	23.3	41.7	0.0	15.0	55.0	5.0	45.0	18.3	Medium	5.13	4.9	0.56	0.97	1.53	6.67	8.33	0.58	0.29	18.33	30	18.33	33.33		0.00%	0.00%	0.00%	6.70%	41.70%	51.70%	0.00%
3-1666	49.22471599	-55.48690719	11.7	0.0	16.7	0.0	11.7	43.3	3.3	0.0	0.0	Low	1.6	1.6	0.2	0.41	0.61	2.67	0.67	0.06	0.14	36.67	20	10	33.33		11.70%	10.00%	0.00%	3.30%	53.30%	21.70%	0.00%
3-1343	49.1619329	-55.47491872	5.0	0.0	0.0	0.0	0.0	5.0	20.0	0.0	0.0	Not recorded	NA	NA	NA	NA	NA	NA	0	0	0.14	0	0	0	100	wetland	40.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4-2174 (Peter's River)	49.150483	-55.41583181	16.7	5.0	23.3	6.7	15.0	63.3	18.3	8.3	92.5	High	24.33	23.5	0.93	3.42	1.06	3	4	0.66	0.49	16.67	20	63.33	0		1.70%	1.70%	13.30%	30.00%	35.00%	18.30%	1.70%
3-1630	49.10759217	-55.39982168	No stream																														
3-1630	49.26163671	-55.38943192	12.5	2.0	15.0	42.5	15.0	17.5	0.0	22.5	0.0	Low	1.95	1.8	0.24	0.7	0.94	4	2	0.46	0.17	15	52.5	32.5	0		0.00%	0.00%	15.00%	32.50%	37.50%	15.00%	0.00%
13-143	49.28206892	-55.35524757	11.7	16.7	16.7	3.3	13.3	40.0	1.7	10.0	13.3	Medium	2.9	2.53	0.29	0.62	0.91	2.67	1	0.1	0.22	33.33	26.67	40	0		6.70%	0.00%	3.30%	35.00%	45.00%	10.00%	0.00%
13-12	49.22265783	-55.34060212	35.0	10.0	0.3	30.0	38.3	61.7	1.7	58.3	3.3	Medium	3.05	2.42	0.37	0.33	0.7	3	0.67	0.11	0.23	41.67	18.33	40	0		10.00%	36.70%	26.70%	14.30%	10.70%	1.70%	0.00%
7-448	49.28162283	-55.31640433	0.0	0.0	0.0	3.3	0.0	93.3	55.0	0.0	0.0	Low	0.68	0.68	0.17	0.2	0.37	2	0	0	0.14	0	0	0	100		50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
13-173	49.27525343	-55.337205	28.3	18.3	6.7	0.0	11.7	63.3	10.0	6.7	0.0	Medium	2.4	2.4	0.24	0.44	0.55	2.67	0.67	0.15	0.12	23.33	16.67	60	0		11.70%	3.30%	1.70%	18.30%	55.00%	10.00%	0.00%

Watercourse ID	Latitude	Longitude	Epifaunal Substrate (%)									Channel Measurements									Habitat Type (%)					Substrate (%)						
			Small Woody Debris	Large Woody Debris	Boulder	Undercut	Deep Pool	Overhanging Vegitation	Instream Vegitation	Canopy Cover	Water Depth >0.5 m	Water Level at Survey Time	Channel Width (m)	Wetted Width (m)	Maximum Depth (m)	Bank Height (m)	Bankfull Depth (m)	Gradient (degrees)	Number of Pools	Velocity (m/s)	Mean Depth (m)	Pool	Riffle	Run	Other	Other	Organic	Fine	Sand	Gravel	Cobble	Boulder	Bedrock
19-69	49.40718585	-55.45117503	0.0	13.3	28.3	73.3	31.7	35.0	0.0	23.3	3.3	Medium	3.7	2.25	0.33	0.51	0.82	2	1.67	0.08	0.17	23.33	23.33	53.33	0		0.00%	0.00%	23.30%	33.30%	33.30%	10.00%	0.00%
21-53	49.48478494	-55.41443319	25.0	10.0	1.7	63.3	16.7	33.3	15.0	1.7	6.7	Low	2.97	1.4	0.3	0.59	0.88	1.33	1.33	0.1	0.16	10	10	66.67	13.33	stagnant water	40.00%	30.00%	18.30%	10.00%	0.00%	1.70%	0.00%
16-10	49.45312109	-55.45565147	10.0	0.0	0.0	5.0	0.0	42.5	0.0	0.0	0.0	Low	0.32	0.25	0.11	0.18	0.29	1	0	0.1	0.07	0	10	40	50	stagnant water	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18-64	49.4476508	-55.45124143	30.0	15.0	12.5	0.0	0.0	12.5	30.0	40.0	0.0	Low	2.02	1.33	0.16	0.44	0.6	6	2.5	0.29	0.07	15	22.5	22.5	40	cascade	0.00%	7.50%	0.00%	15.00%	15.00%	15.00%	47.50%
30-13	49.47622198	-55.4547073	46.7	25.0	70.0	3.5	8.3	53.3	6.7	35.0	0.0	Low	4.53	1.68	0.16	0.67	0.86	6.33	2.33	0.43	0.12	13.33	56.67	16.67	10	cascade	0.00%	0.00%	8.30%	20.00%	16.70%	55.00%	0.00%
31-14	49.43322849	-55.45130545	NA									Low	3.43	1.2	0.1	0.57	0.89	2	2.67	0.13	0.06	30	30	21.67	18.33	stagnant water cascade	0.00%	3.30%	26.70%	40.00%	8.30%	5.00%	16.70%
19-69	49.38998224	-55.46825089	20.0	11.7	0.0	40.0	1.7	56.7	3.3	11.7	0.0	Medium	2.13	1.57	0.2	0.37	0.57	1.33	1	0.04	0.12	83.33	8.33	8.33	0	stagnant water	0.00%	80.00%	0.00%	6.70%	13.30%	0.00%	0.00%
2-569	49.2648019	-55.51498331	1.7	11.7	33.3	3.3	13.3	15.0	3.3	6.7	1.7	Medium	7.43	4.9	0.3	1	1.31	2	1.33	0.28	0.18	20	17	63.33	0		0.00%	0.00%	3.30%	33.30%	13.30%	30.00%	20.00%
3-1918	49.19089473	-55.58689081	2.0	0.0	73.3	32.3	10.0	43.3	0.0	3.3	6.7	Medium	6.5	6.5	0.38	0.4	0.78	1.5	12.5	0.33	0.25	23.33	55	21.67	0		0.00%	0.00%	0.00%	1.70%	25.00%	73.30%	0.00%
12-373 (Northwest Arm Brook)	49.408741	-55.483304	0.0	0.0	0.0	0.0	0.0	10.0	5.0	0.0	0.0	Medium	10.53	10.43	1.5	0.18	0.2	1	1	0.33	0.21	15	35	50	0		0.00%	0.00%	15.00%	25.00%	45.00%	15.00%	0.00%
2-2372	49.26524959	-55.52106946	13.3	18.3	0.0	40.0	13.3	36.7	18.3	6.7	0.0	Medium	3.87	3.37	0.33	0.43	0.76	1.67	1.33	0.08	0.24	13.33	13.33	73.33	0		1.70%	3.30%	23.30%	63.30%	8.30%	0.00%	0.00%