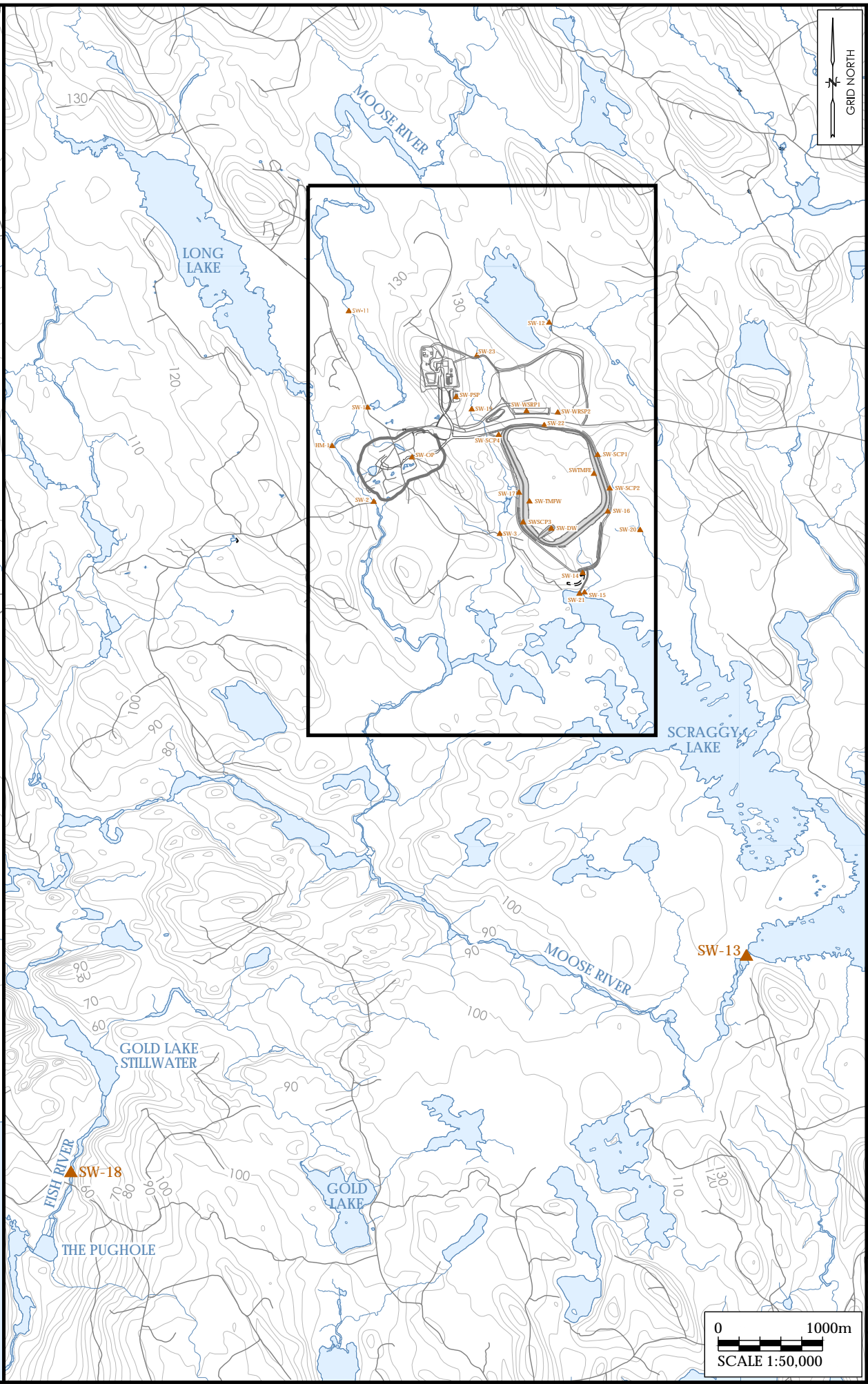
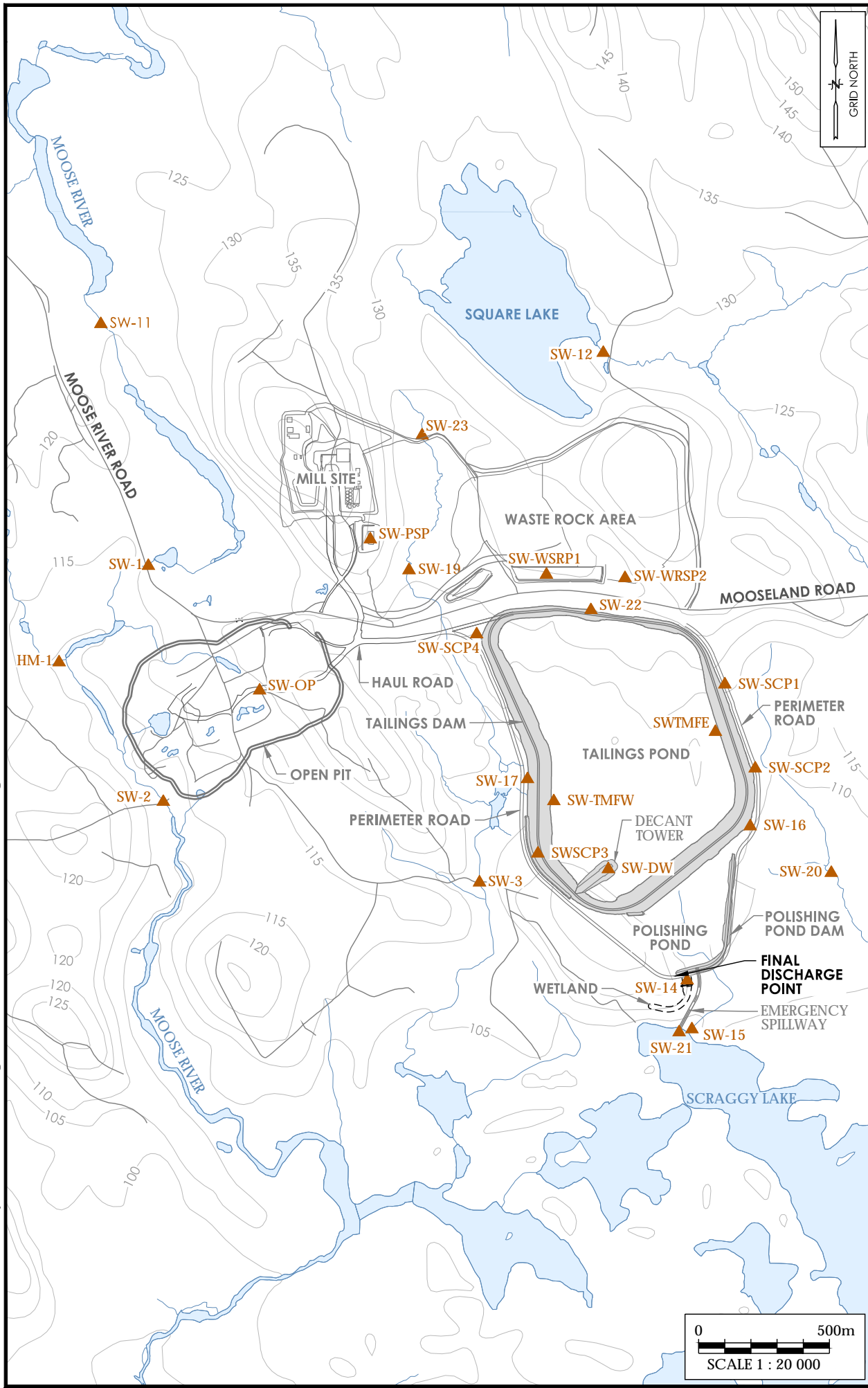


V:\1216\active\121619250_3_hydrotechnical\3_drawing\2019_FIS\4_sheet_files\19250_FMS_FIG_1-1-1.dwg



- LEGEND**
- CONTOUR, 5m (PROVINCIAL DATA)
 - ROAD
 - ▬▬▬ TMF INFRASTRUCTURE
 - WATERCOURSE
 - WATERBODY
 - ▲ SURFACE WATER MONITORING LOCATIONS

- Reference:
1. PROVINCIAL BASE DATA REPRODUCED AND DISTRIBUTED WITH THE PERMISSION OF SERVICE NOVA SCOTIA & MUNICIPAL RELATIONS (SNSMR, 2006) AS PER THE TERMS OF USE OUTLINED IN THE UNRESTRICTED DATA USE LICENSE AGREEMENT FOR GEOGRAPHIC DATA.
 2. EXISTING TOPOGRAPHY SHOWN IS BASED ON LIDAR DATA PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES (2010).

THIS FIGURE ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO THE FIFTEEN MILE STREAM GOLD PROJECT EIS.

Touquoy Mine Site Surface Water Monitoring Locations

**FIFTEEN MILE STREAM GOLD PROJECT
ENVIRONMENTAL IMPACT STATEMENT**

Project: 121619250	Figure No.: 6.6-5
Scale: AS SHOWN	
Date: 12-SEP-2019	
Dwn. By: MA	
App'd By: RJ	

Prepared For:



FIGURE 6.6-6

FMS Study Area
Overview of Field
Delineated Watercourses

Trafalgar, NS

- NSTDB Mapped Watercourses outside FMS Study Area
- Field Delineated Watercourses within FMS Study Area
- NSE Wetlands outside FMS Study Area
- Field Delineated Wetlands within FMS Study Area
- FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Projection: Transverse Mercator
Datum: North American 1983 CSRS
Units: Meter



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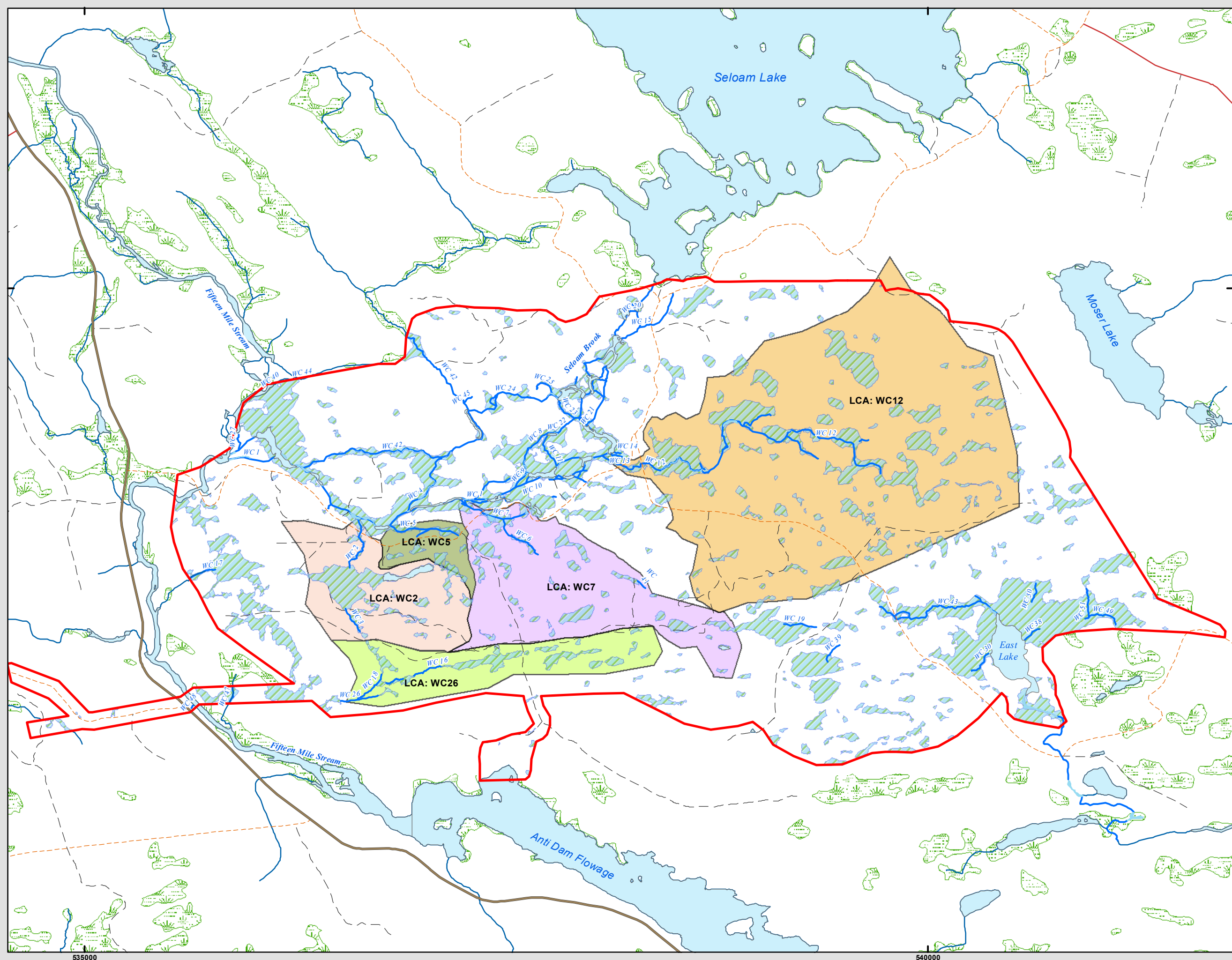
1:21,000 Scale when printed @ 11" x 17"

Drawn By: AS Date: 2020-10-30

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community








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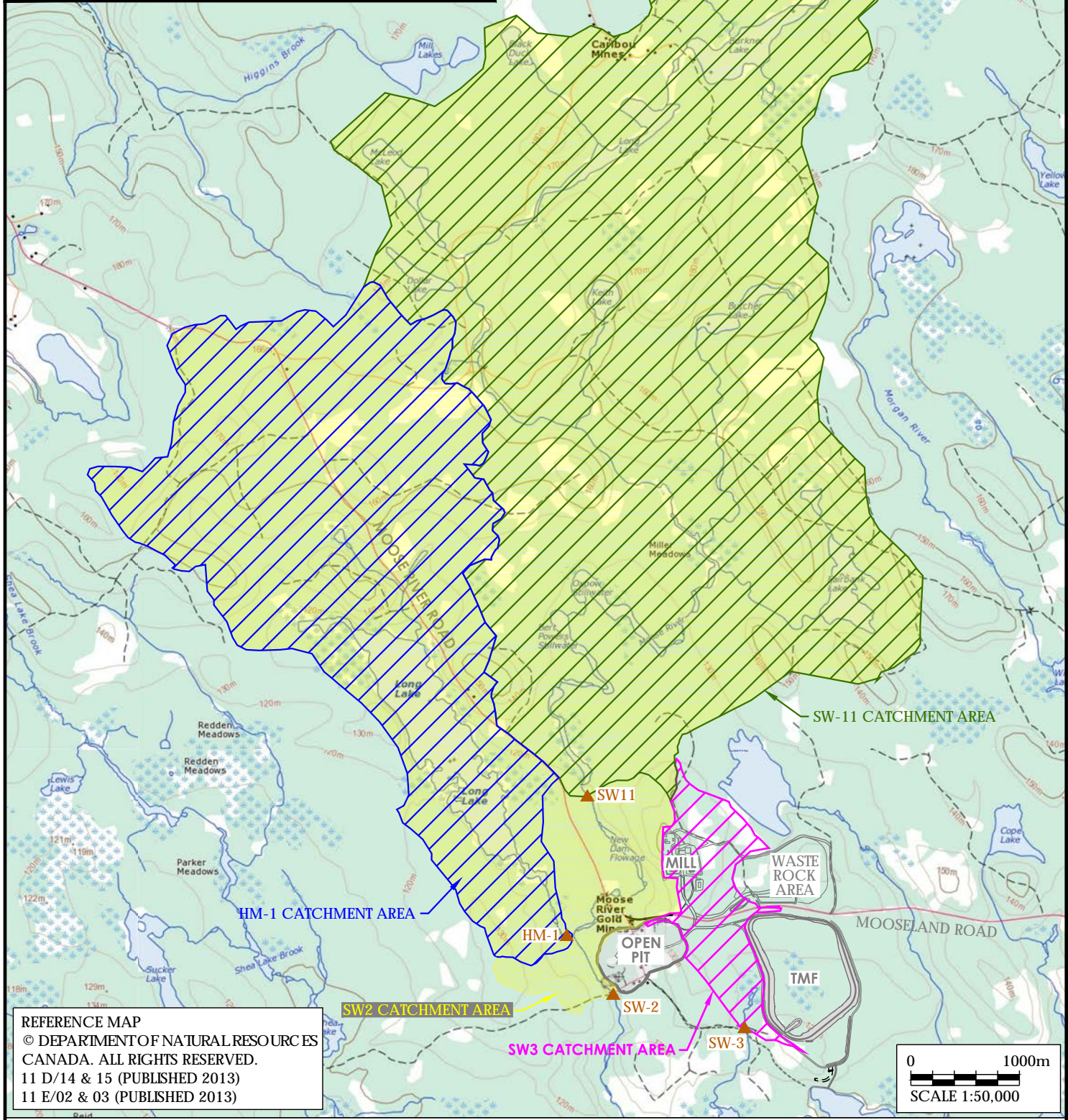
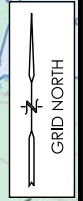


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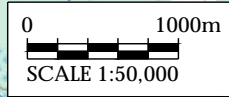
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LEGEND	
	SURFACE WATER SAMPLING POINT
	SW2 CATCHMENT AREA (MOOSE RIVER) 39.66 km ²
	SW3 CATCHMENT AREA (WATERCOURSE No. 4) 1.36 km ²
	SW11 CATCHMENT AREA (MOOSE RIVER) 25.78 km ²
	HM-1 CATCHMENT AREA (LONG LAKE) 12.01 km ²



REFERENCE MAP
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 CANADA. ALL RIGHTS RESERVED.
 11 D/14 & 15 (PUBLISHED 2013)
 11 E/02 & 03 (PUBLISHED 2013)



THIS FIGURE ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO THE FIFTEEN MILE STREAM GOLD PROJECT EIS.

Catchment Areas

Project:	121619250
Scale:	N.T.S
Date:	12-SEP-2019
Dwn. By:	MA
App'd By:	RJ

Figure No.: **6.6-7**

Client:
 **Atlantic Gold**

V:\1216\active\121619250\3_hydrotechnical\3_Drawing\2019_FIS\4_sheet_files\19250_FMS_FIG_1-1-2.dwg

Prepared For:



FIGURE 6.6-8

**Touquoy Mine Site
Field Delineated Wetlands
and Watercourses**

Mooseland, NS

-  NSTDB Mapped Watercourse outside Touquoy Mine Site
-  Field Delineated Watercourses within Touquoy Mine Site
-  Field Delineated Wetlands within Touquoy Mine Site
-  NSE Wetlands Outside Touquoy Mine Site
-  FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Projection: Transverse Mercator
Datum: North American 1983 CSRS
Units: Meter



0 125 250 500 m

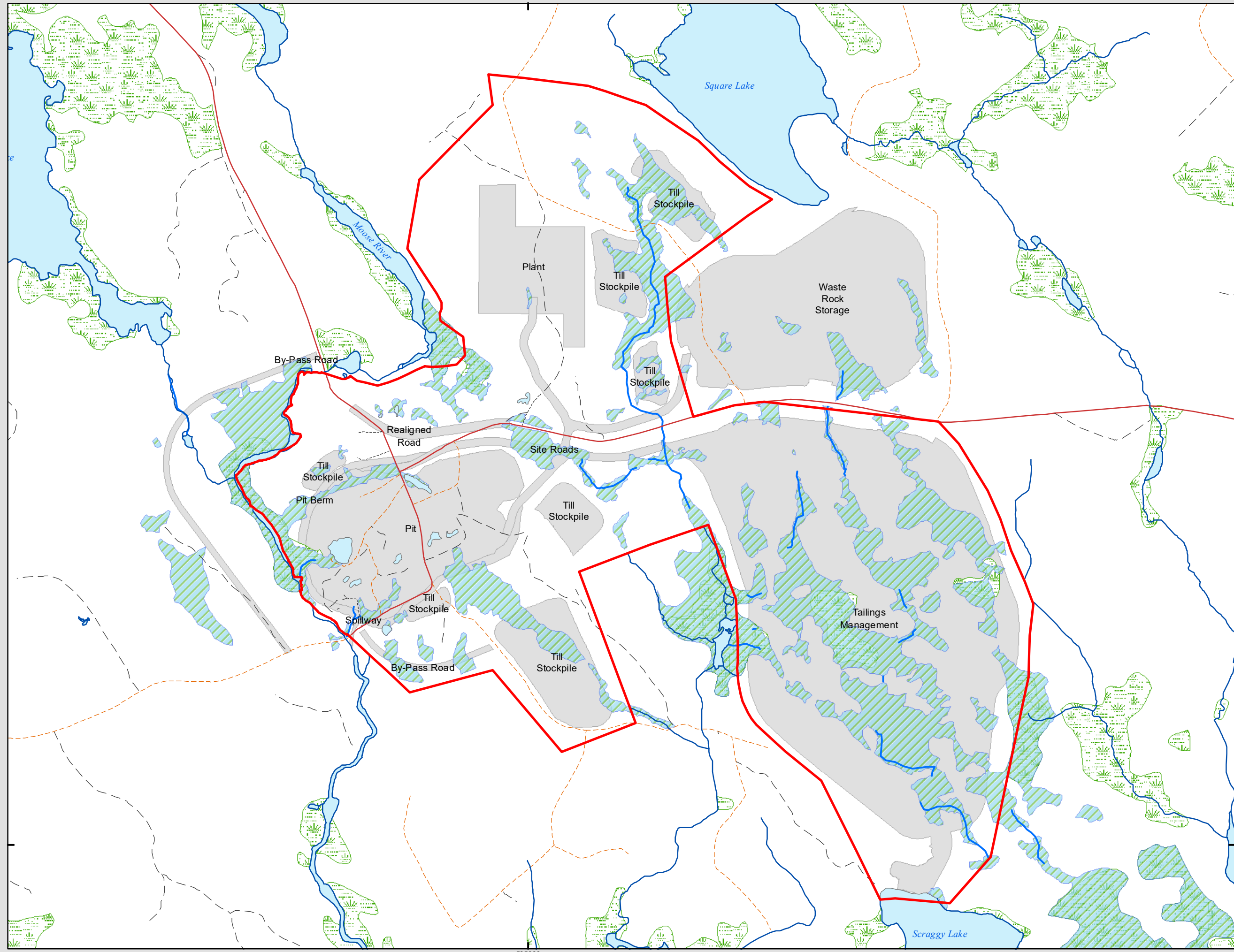
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Drawn By: AS Date: 2020-10-30

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

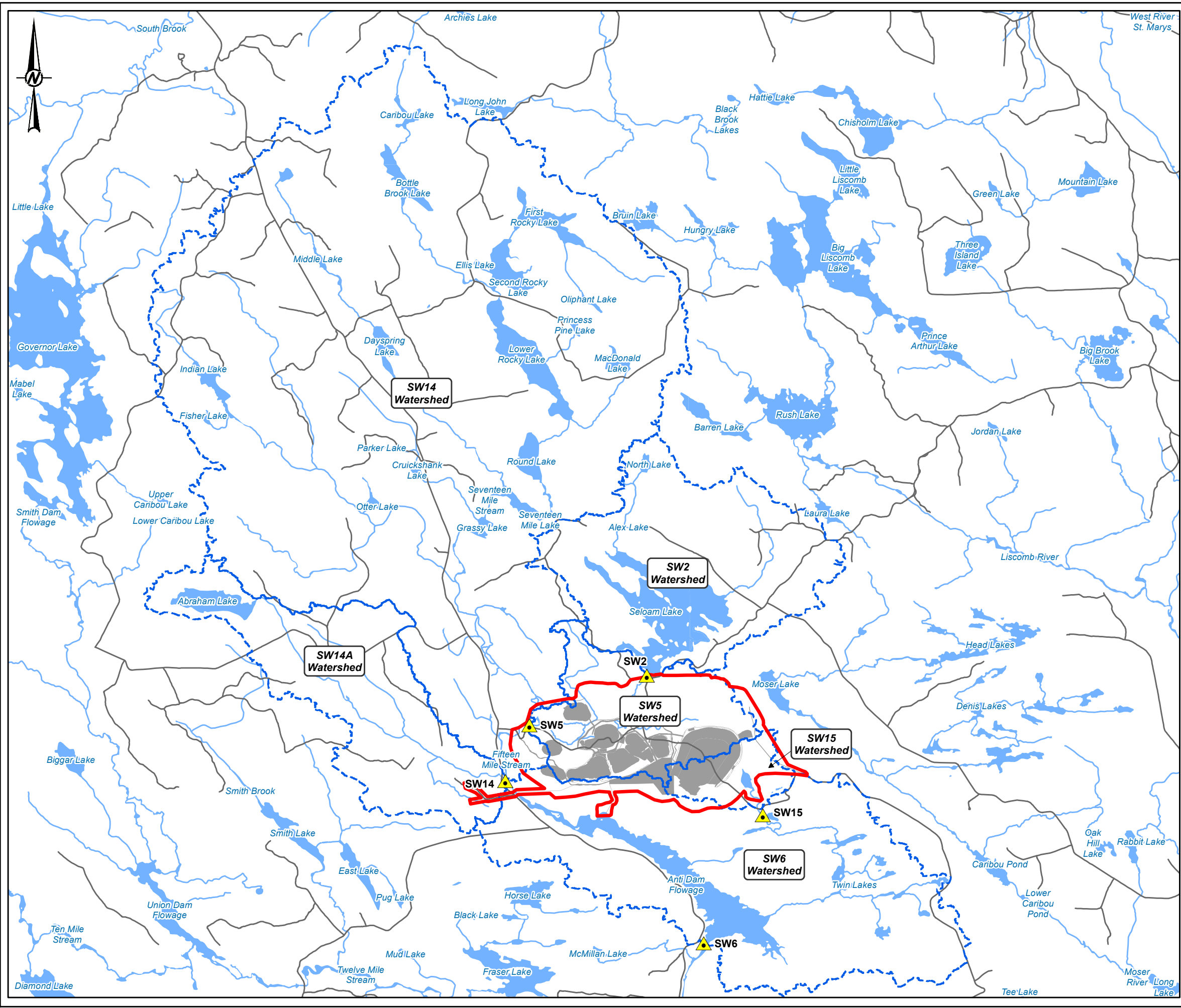


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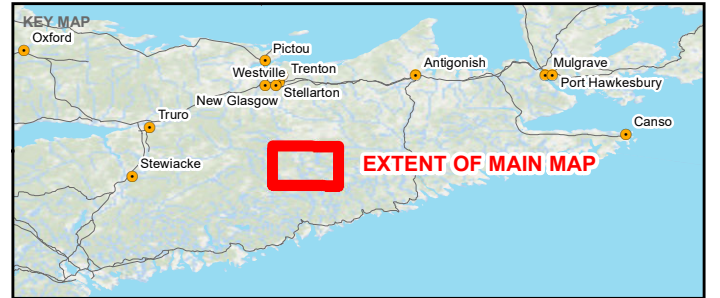
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LEGEND

- Hydrological Modelling Location
- Roads
- Fifteen Mile Stream Study Area
- Watercourse
- Waterbody
- Watershed Boundary
- Proposed Infrastructure



NOTE(S)
 THIS FIGURE WAS PREPARED FOR ATLANTIC GOLD AND IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDR ASSOCIATES LTD. REPORT NO.1895674-10001

REFERENCE(S)
 1. MCCALLUM ENVIRONMENTAL LTD. EIS PROJECT AREA. (VER.200227, RECEIVED 2020-04-07).
 2. PROPOSED INFRASTRUCTURE. (VER.200630, RECEIVED 2020-08-28).
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 20 VERTICAL DATUM: CGVD28

CLIENT
 ATLANTIC MINING NS CORP

PROJECT
 SURFACE WATER QUALITY AND QUANTITY EFFECTS ASSESSMENT

TITLE
 LOCAL WATERSHEDS AND HYDROLOGICAL MONITORING




CONSULTANT	YYYY-MM-DD	2020-09-01
	DESIGNED	--
	PREPARED	RRD
	REVIEWED	SK
	APPROVED	--

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FIGURE 6.6-16

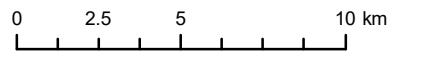
**Fifteen Mile Stream
 Gold Project
 Spatial Boundaries:
 Surface Water, Wetlands,
 Fish and Fish Habitat**

Halifax County, NS

-  Project Area
-  Aquatic Local Assessment Area
-  Aquatic Regional Assessment Area

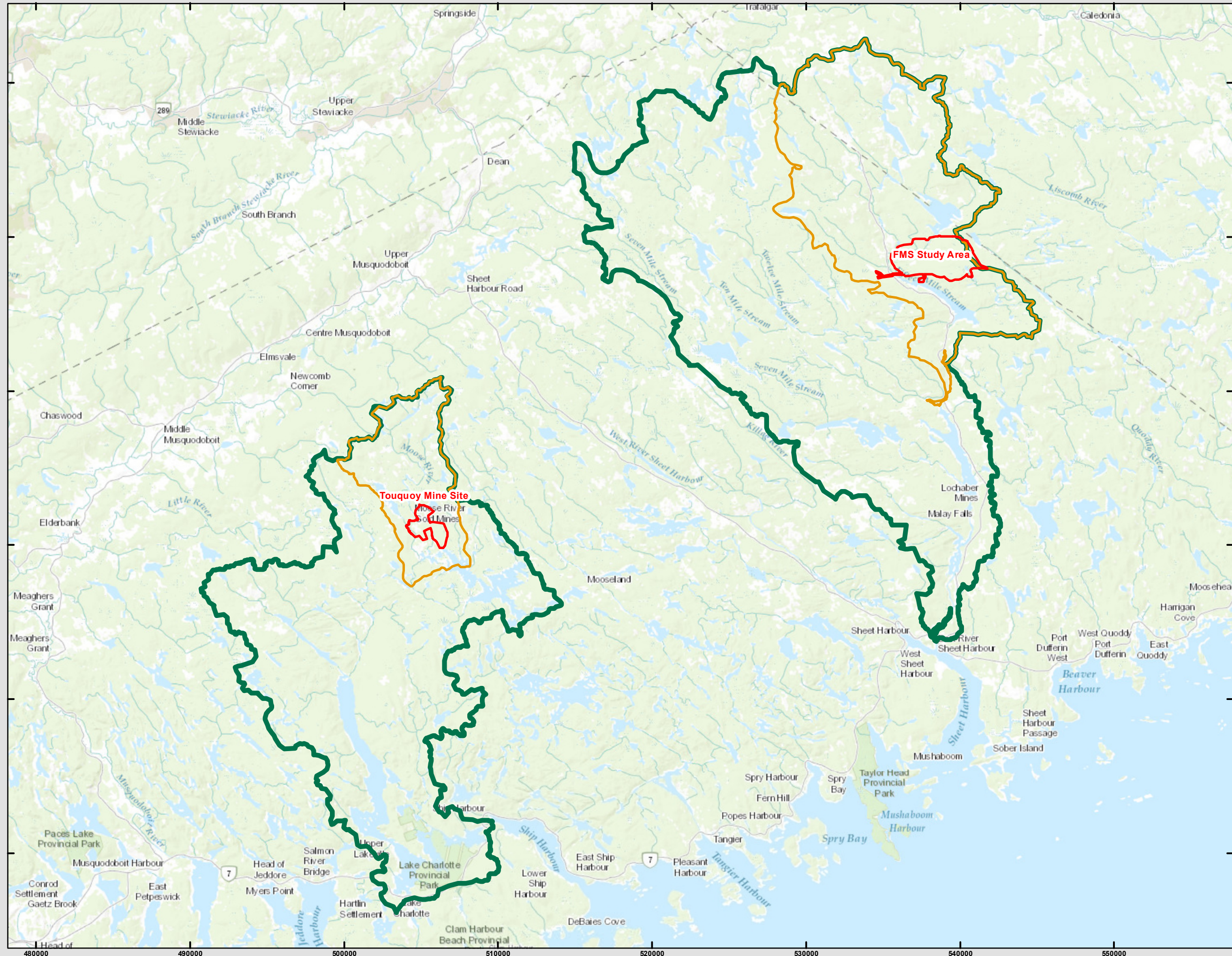


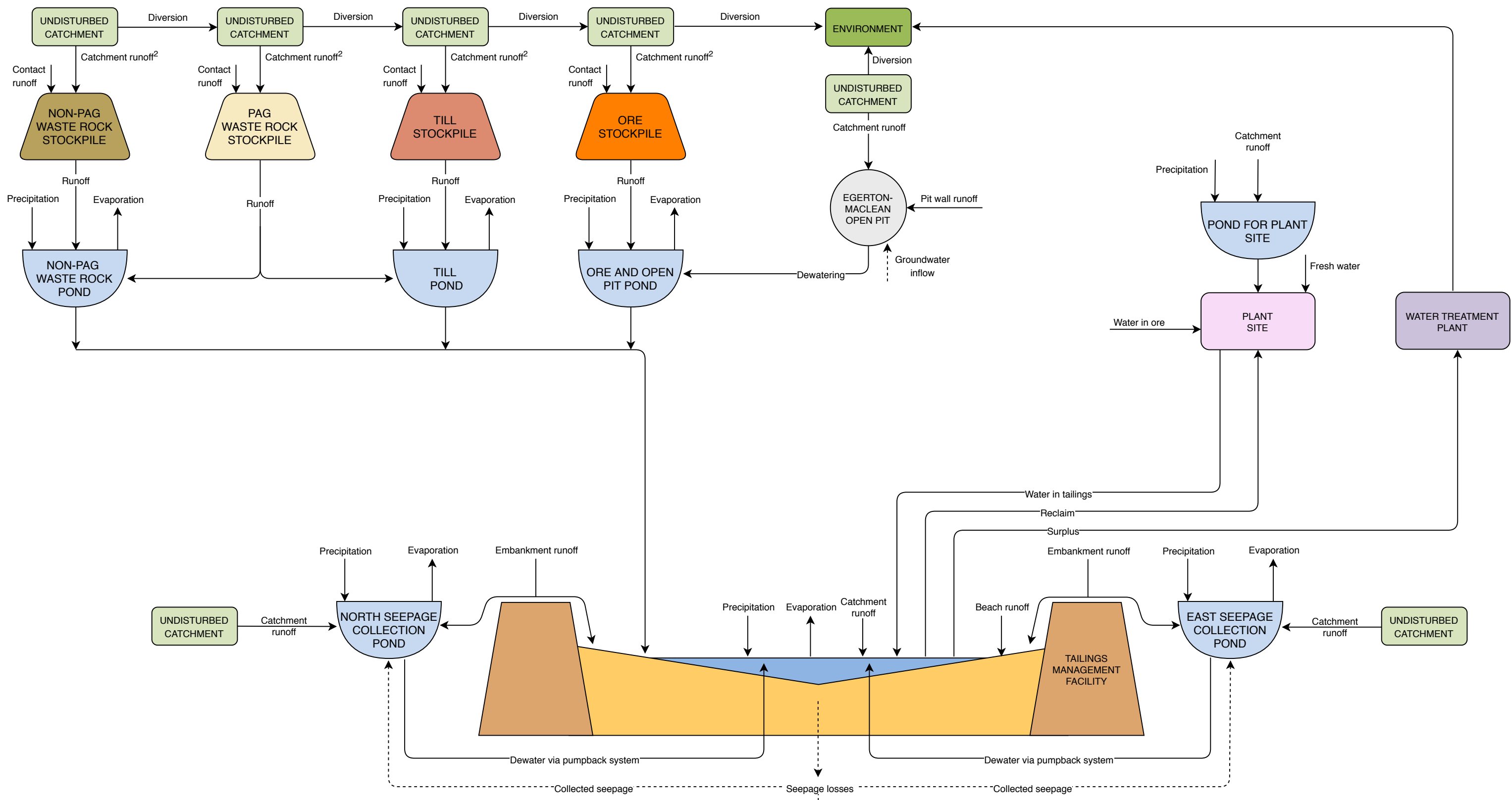
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 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:230,000
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 Date: 2020-03-11

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap



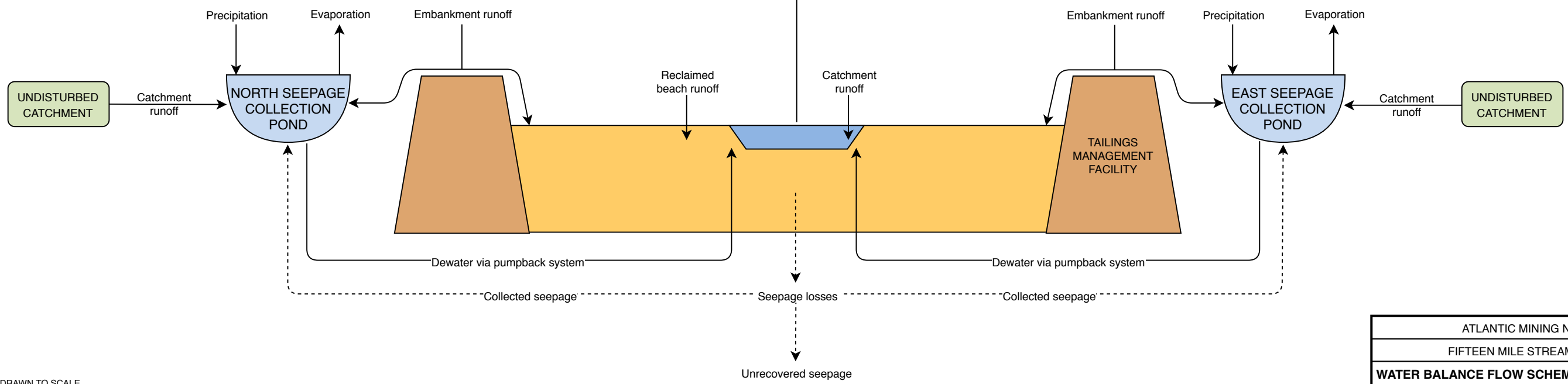
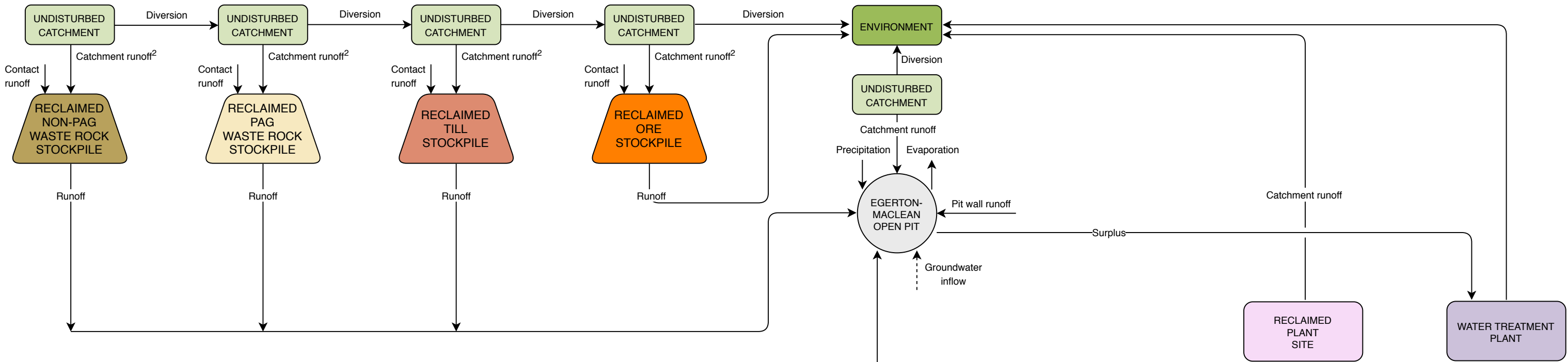


NOTES:
 1. FACILITIES ARE NOT DRAWN TO SCALE.
 2. CATCHMENT RUNOFF IS FROM THE STOCKPILE'S UNDISTURBED CATCHMENT AREA AND IS NOT DISTURBED.

ATLANTIC MINING NS CORP.
 FIFTEEN MILE STREAM PROJECT
**WATER BALANCE FLOW SCHEMATIC - OPERATIONAL
 YEAR -1 TO 7**

	P/A NO. VA101-00708/04	REF. NO. 2
	FIGURE 6.6-17	

1	12JUN20	ISSUED WITH REPORT	HW	CKJ	<div style="background-color: green; color: white; padding: 2px;">YEAR -1 TO 7</div> <div style="background-color: #ccc; padding: 2px;">YEAR >= 8</div>
REV	DATE	DESCRIPTION	PREPD	RWWD	



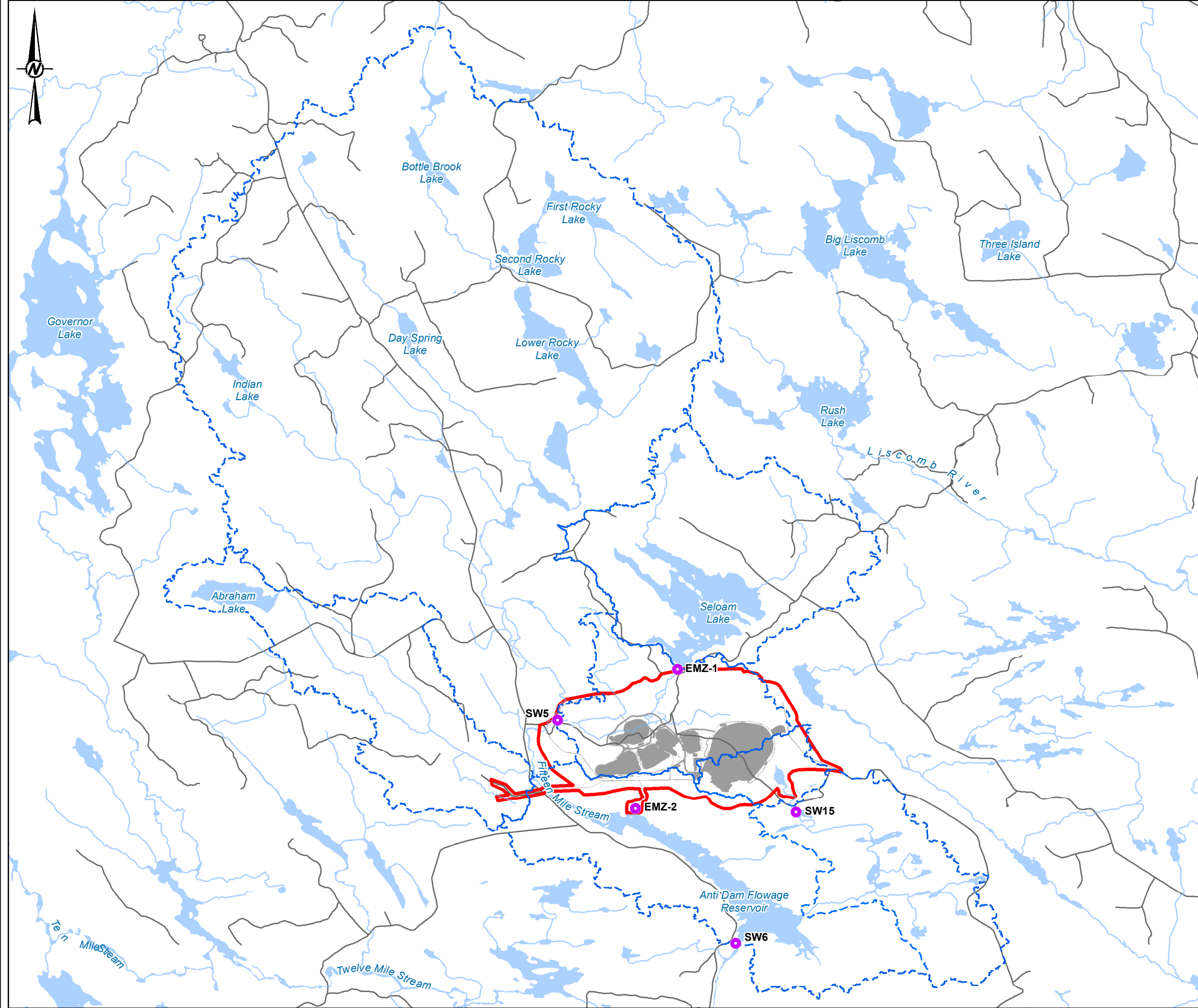
NOTES:
 1. FACILITIES ARE NOT DRAWN TO SCALE.
 2. CATCHMENT RUNOFF IS FROM THE STOCKPILE'S UNDISTURBED CATCHMENT AREA AND IS NOT DISTURBED.
 3. THE WATER BALANCE MODEL ASSUMES THE TMF SUMP CURRENTLY HAS NO VOLUME OR AREA. ALL RUNOFF IS SENT TO THE OPEN PIT.

ATLANTIC MINING NS CORP.	
FIFTEEN MILE STREAM PROJECT	
WATER BALANCE FLOW SCHEMATIC - CLOSURE AND POST-CLOSURE	
YEAR >= 8	
	P/A NO. VA101-00708/04
REF. NO. 2	REV. 1
FIGURE 6.6-18	

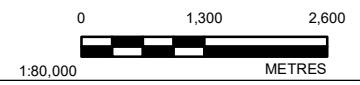
REV	DATE	DESCRIPTION	PREPD	RWWD
1	12JUN20	ISSUED WITH REPORT	HW	CKJ

YEAR -1 TO 7

YEAR >= 8



- LEGEND**
- Water Quality Model Assessment Locations
 - Roads
 - Watercourse
 - Waterbody
 - Watersheds
 - Proposed Infrastructure
 - Fifteen Mile Stream Study Area



NOTE(S)

1. MCCALLUM ENVIRONMENTAL LTD. EIS PROJECT AREA, (VER.190313, RECEIVED 2019-03-18).
2. MCCALLUM ENVIRONMENTAL LTD. PROPOSED INFRASTRUCTURE, (VER.190620, RECEIVED 2019-06-28).

REFERENCE(S)

BASE MAP DATA: ESRI, GARMIN, GEBCO, NOAA NGDC, AND OTHER CONTRIBUTORS
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 20 VERTICAL DATUM: CGVD28

CLIENT
ATLANTIC MINING NS CORP

PROJECT
**SURFACE WATER QUALITY MODELLING ASSESSMENT
 FIFTEEN MILE STREAM GOLD PROJECT**

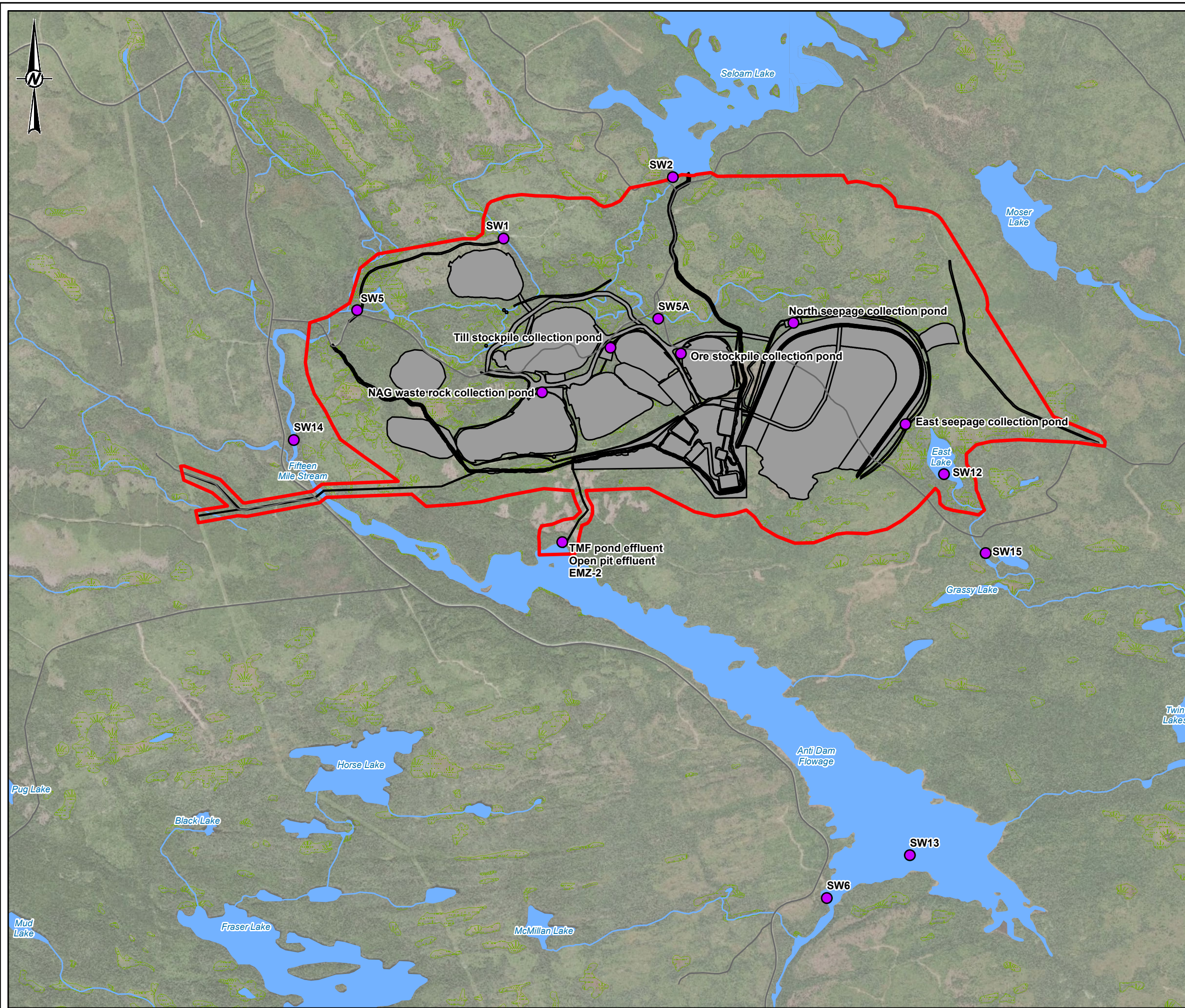
TITLE
WATER QUALITY MODEL ASSESSMENT LOCATIONS

CONSULTANT	YYYY-MM-DD	2019-09-18
	DESIGNED	—
	PREPARED	RRD
	REVIEWED	NK
	APPROVED	SK

PROJECT NO.	CONTROL	REV.	FIGURE
1895674	0026	0	6.6-20

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LEGEND

- Surface Water Monitoring Locations
- Roads
- Fifteen Mile Stream Study Area
- Proposed Infrastructure
- Watercourse
- Waterbody
- Wetland



NOTE(S)
 THIS FIGURE WAS PREPARED FOR ATLANTIC GOLD AND IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDR ASSOCIATES LTD. REPORT NO.1895674-10001

REFERENCE(S)
 1. MCCALLUM ENVIRONMENTAL LTD. EIS PROJECT AREA, (VER.190313, RECEIVED 2019-03-18).
 2. PROPOSED INFRASTRUCTURE, (VER.200630, RECEIVED 2020-08-28).
 PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: UTM ZONE 20 VERTICAL DATUM: CGVD28

CLIENT
 ATLANTIC MINING NS CORP

PROJECT
 FIFTEEN MILE STREAM GOLD PROJECT
 ENVIRONMENTAL IMPACT STATEMENT

TITLE
LONG TERM SURFACE WATER MONITORING LOCATIONS

CONSULTANT	YYYY-MM-DD	2020-10-09
	DESIGNED	--
	PREPARED	RRD
	REVIEWED	SK
	APPROVED	--

PROJECT NO.	CONTROL	REV.	FIGURE
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Prepared For:



FIGURE 6.7-1

FMS Study Area Field Delineated Wetlands

Trafalgar, NS

-  Field Delineated Watercourses within FMS Study Area
-  Field Delineated Wetlands within FMS Study Area
-  Wetlands with WESP Transcribed
-  NSE Wetlands outside FMS Study Area
-  FMS Infrastructure Layout
-  FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



0 250 500 1,000 m

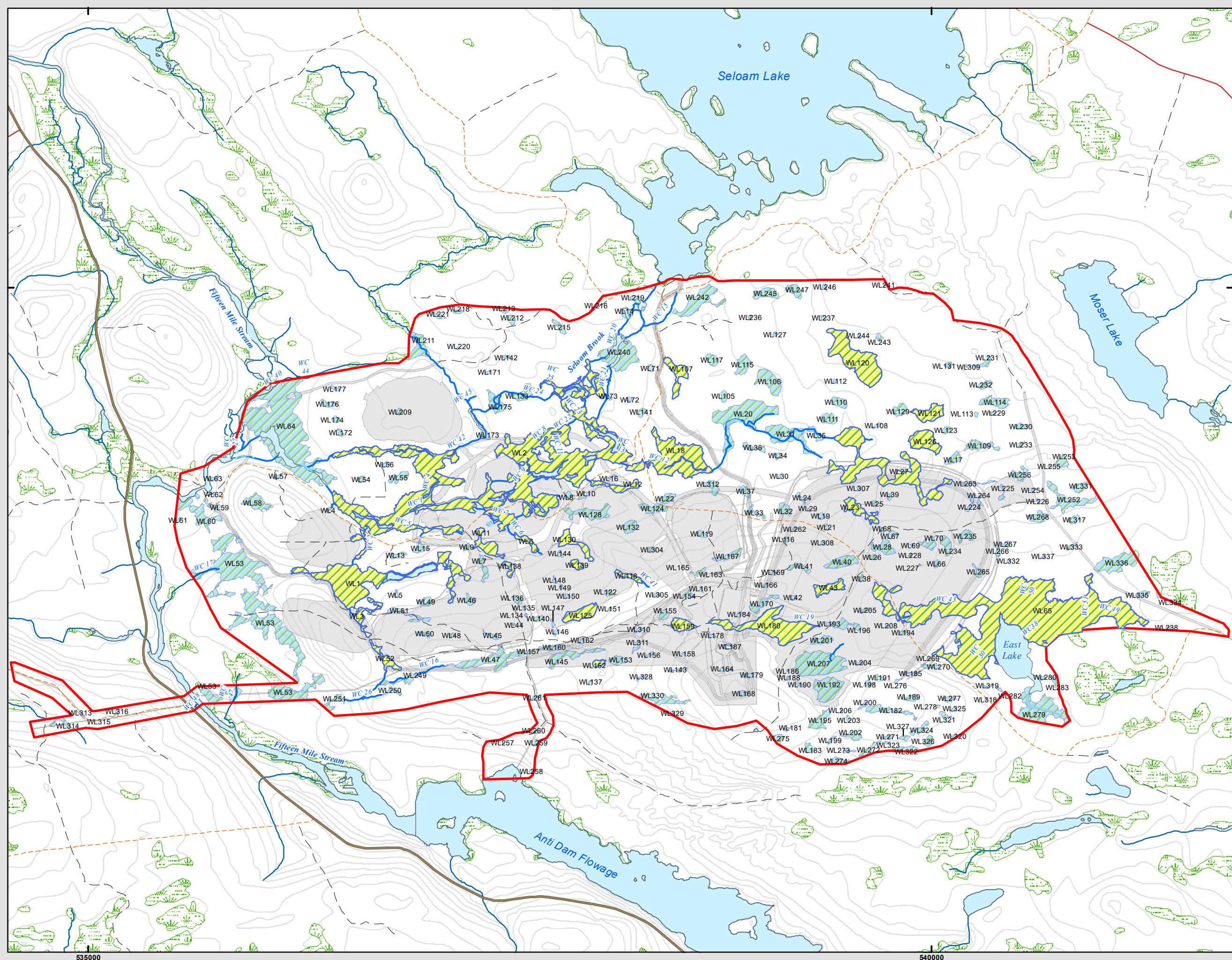
1:21,000 Scale when printed @ 11" x 17"

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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



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FIGURE 6.7-2


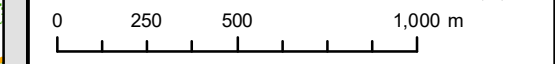
**FMS Study Area
 Potential Wetlands of
 Special Significance**

Trafalgar, NS

- Blue Felt Lichen Observations by Habitat**
-  Upland
 -  Wetland
- Mobile Species at Risk Observations**
-  Canada Warbler
 -  Common Nighthawk
 -  Eastern Wood-Pewee
 -  Evening Grosbeak
 -  Moose
 -  Olive-sided Flycatcher
 -  Rusty Blackbird
- Field Delineated Watercourses**
-  Field Delineated Watercourses
- Potential WSS: Blue Felt Lichen**
-  Potential WSS: Blue Felt Lichen
- NSE Predicted Wetlands of Special Significance**
-  NSE Predicted Wetlands of Special Significance
- Field Delineated Wetlands within FMS Study Area**
-  Field Delineated Wetlands within FMS Study Area
- NSE Wetlands outside FMS Study Area**
-  NSE Wetlands outside FMS Study Area
- FMS Infrastructure Layout**
-  FMS Infrastructure Layout
- FMS Study Area**
-  FMS Study Area



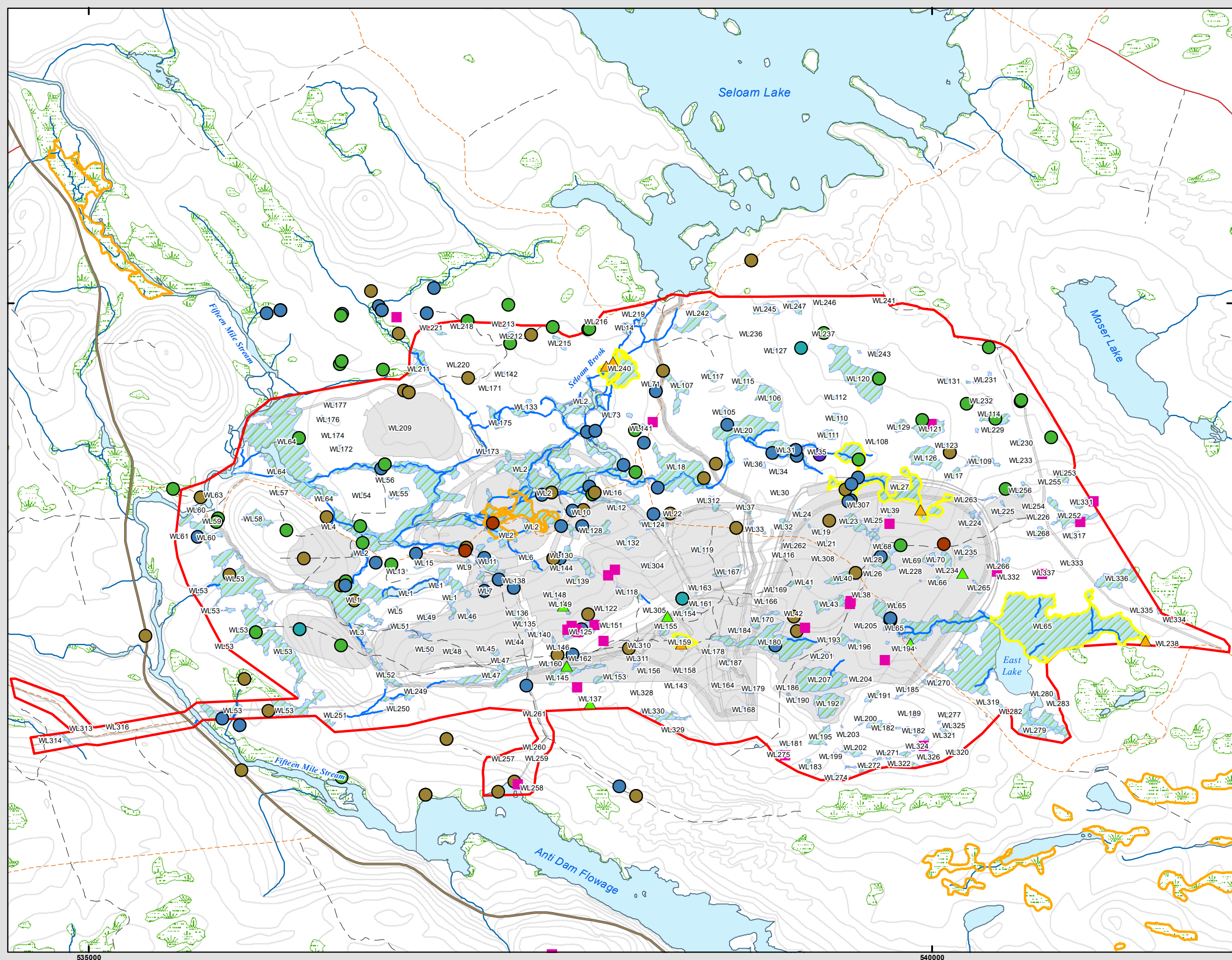
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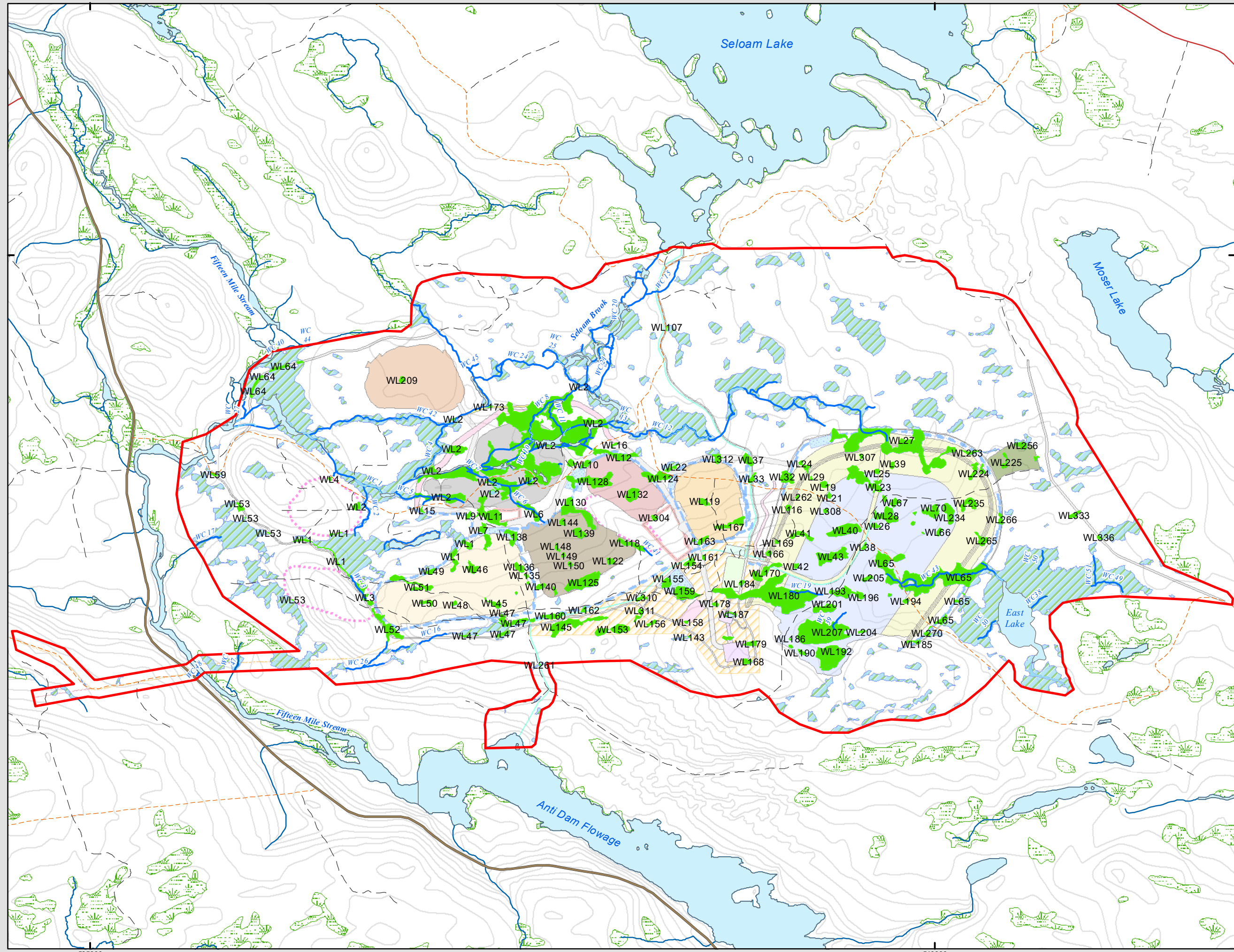
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FIGURE 6.7-3

**FMS Study Area
Preliminary Wetland
Direct Alteration**

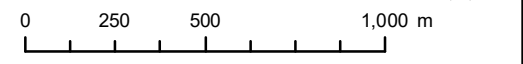
Trafalgar, NS



- | | |
|---|------------------------------|
| Field Delineated Watercourses within FMS Study Area | Tailings Management Facility |
| Direct Impacts to Field Delineated Wetlands | TMF Pond |
| Field Delineated Wetlands within FMS Study Area | Topsoil Stockpile |
| NSE Wetlands outside FMS Study Area | Organics Pile |
| FMS Study Area | Till Stockpile |
| FMS Planned Infrastructure | Low Grade Stockpile |
| Realignment Channel | WRSA (NAG) |
| Water Control Structure | WRSA (PAG) |
| Pit | Access Road |
| Plant | Contractor Laydown Area |
| Truck Shop | Outflow Channel |
| Crusher Pad | Water Management Pump |
| ROM Pad | Water Management Pond |
| Water Treatment | Water Management Ditch |
| Plant and Admin Building Footprint | Water Intake/Discharge Pipe |
| Seloam Diversion Berm | Powerline Tie In |
| | Powerline Tie In Option 2 |
| | Potential Borrow Pit |



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Projection: Transverse Mercator
Datum: North American 1983 CSRS
Units: Meter



1:21,000 Scale when printed @ 11" x 17"

Drawn By: EP Date: 2020-08-26

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FIGURE 6.7-4

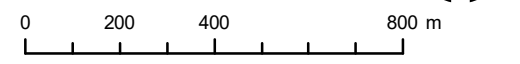
**FMS Study Area
 Anticipated Wetland Impact
 Area by Type**

Trafalgar, NS

-  Field Delineated Watercourses within FMS Study Area
-  Potential Indirect Impact: Seloam Brook Diversion Flooding
-  Potential Indirect Impact: Reduction in Surface Flow
-  Direct Impacts to Field Delineated Wetlands
-  Field Delineated Wetlands within FMS Study Area
-  NSE Wetlands outside FMS Study Area
-  FMS Infrastructure Layout
-  FMS Study Area



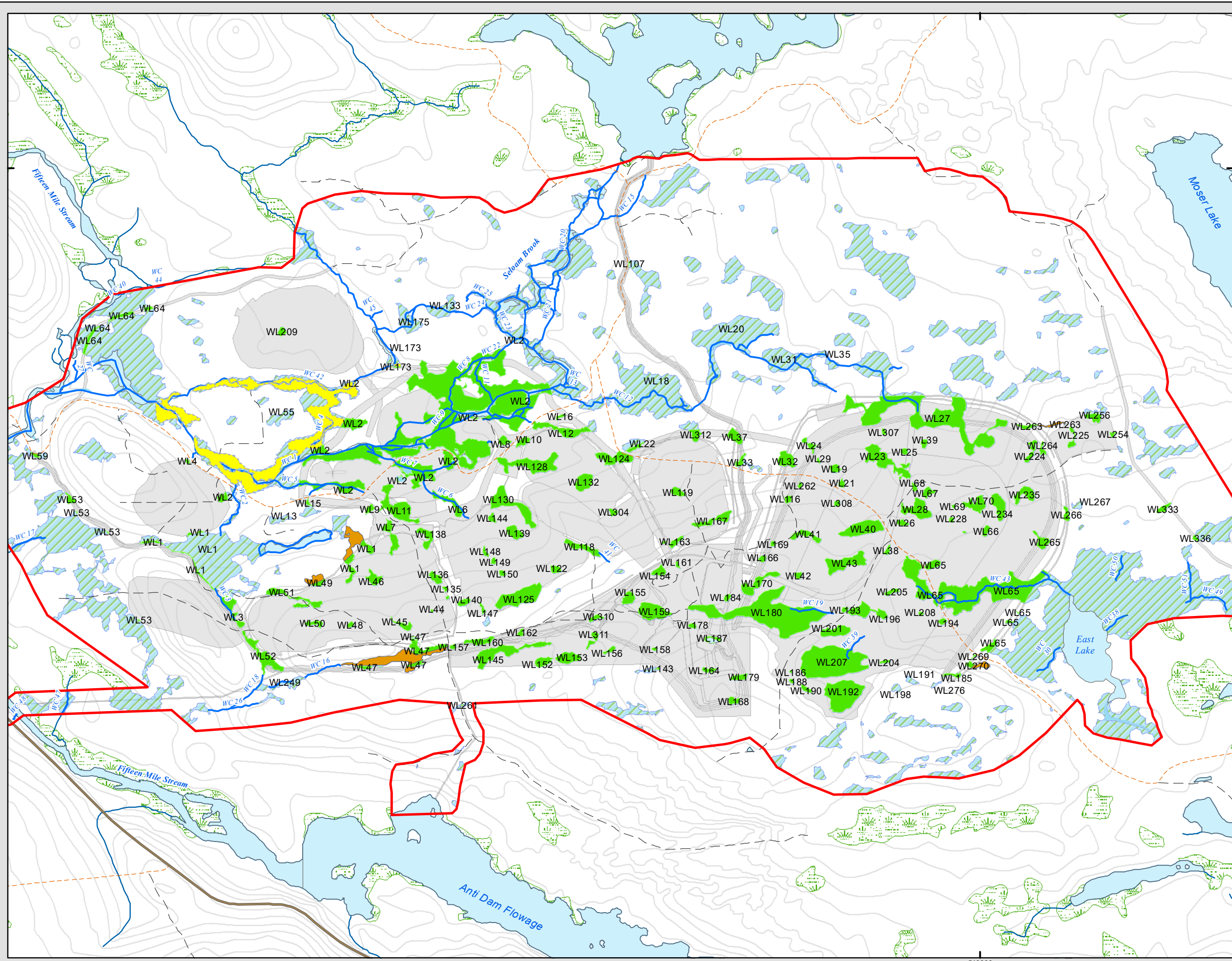
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 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:16,000 Scale when printed @ 11" x 17"

Drawn By: EP Date: 2020-08-26

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



Prepared For:



FIGURE 6.8-1

FMS Study Area Fish Impact Areas, Aquatic Sampling Locations, and Areas of Open Water

Trafalgar, NS

- Benthic, Water & Sediment Sampling Locations
- Periphyton Sample Locations
- Field Delineated Watercourses within FMS Study Area
- Open Water
- Wetland Accessible to Fish
- Field Delineated Wetlands within FMS Study Area
- NSE Wetlands outside FMS Study Area
- FMS Infrastructure Layout
- FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Projection: Transverse Mercator
Datum: North American 1983 CSRS
Units: Meter



0 200 400 800 m

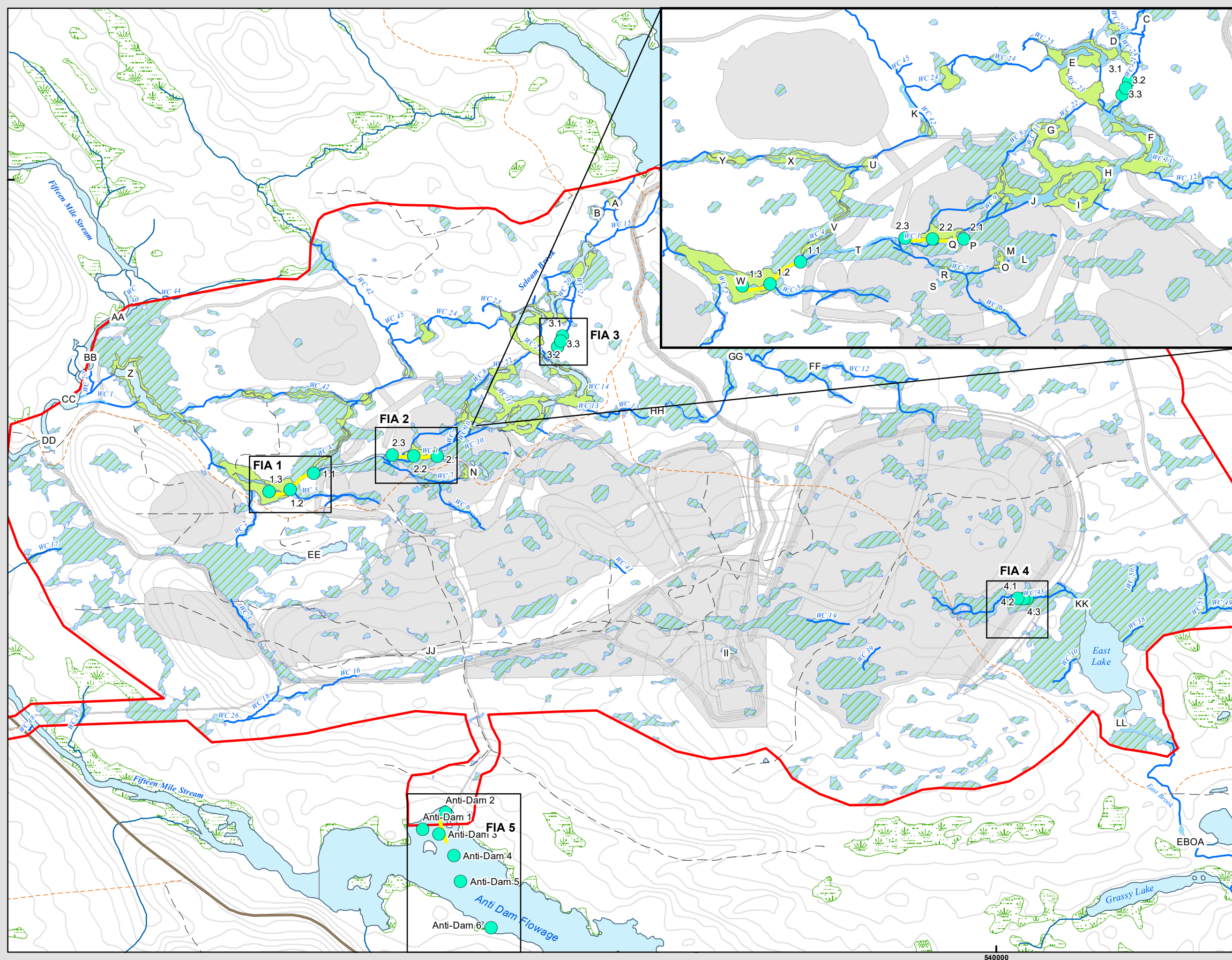
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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



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FIGURE 6.8-2

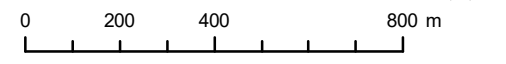
**FMS Study Area
 Electrofishing and Trapping
 Locations**

Trafalgar, NS

-  Fish Traps
-  Electrofishing Locations
-  Field Delineated Watercourses within FMS Study Area
-  Open Water
-  Wetland Accessible to Fish
-  Field Delineated Wetlands within FMS Study Area
-  FMS Infrastructure Layout
-  NSE Wetlands outside FMS Study Area
-  FMS Study Area



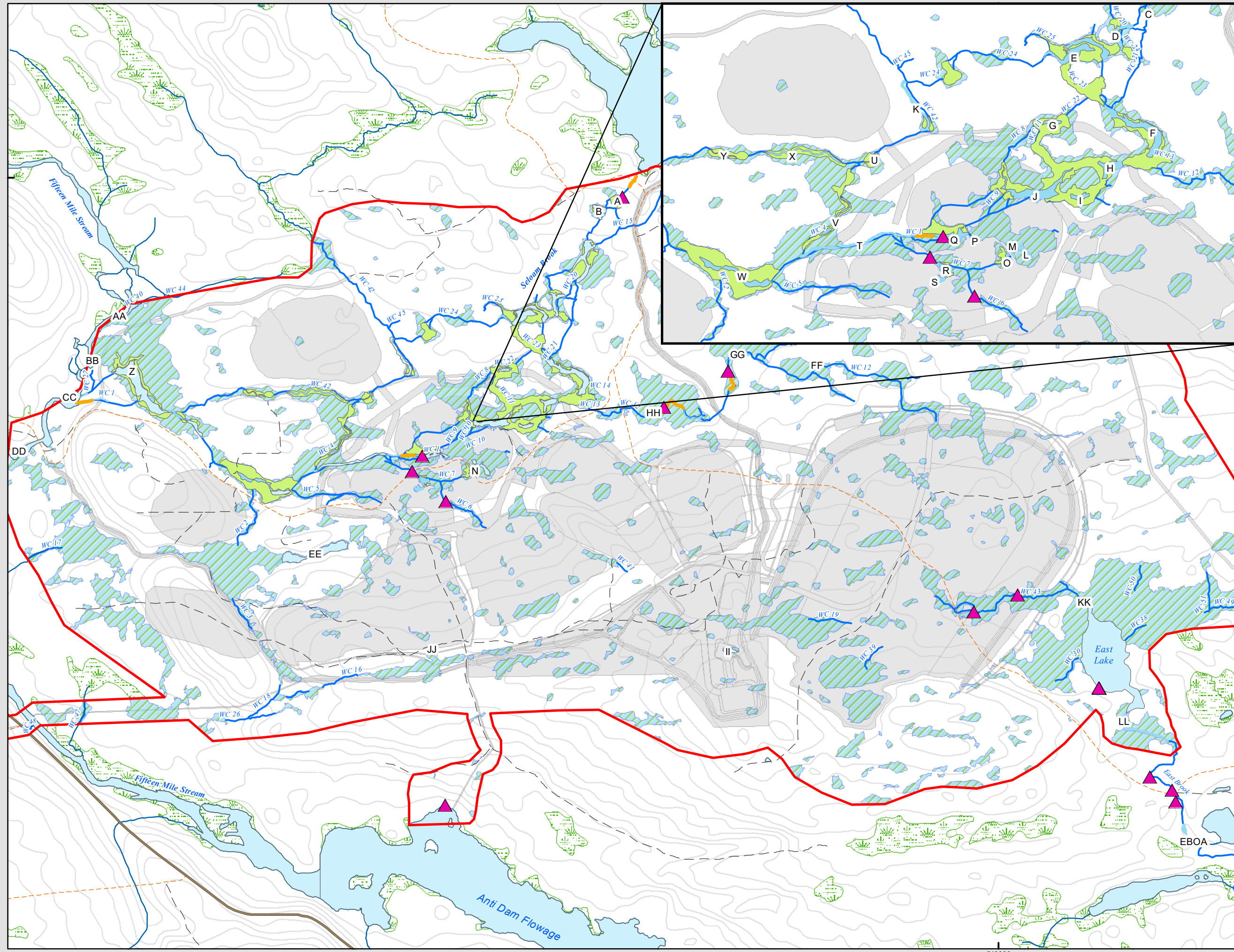
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 Units: Meter



1:16,000 Scale when printed @ 11" x 17"

Drawn By: EP Date: 2020-08-28

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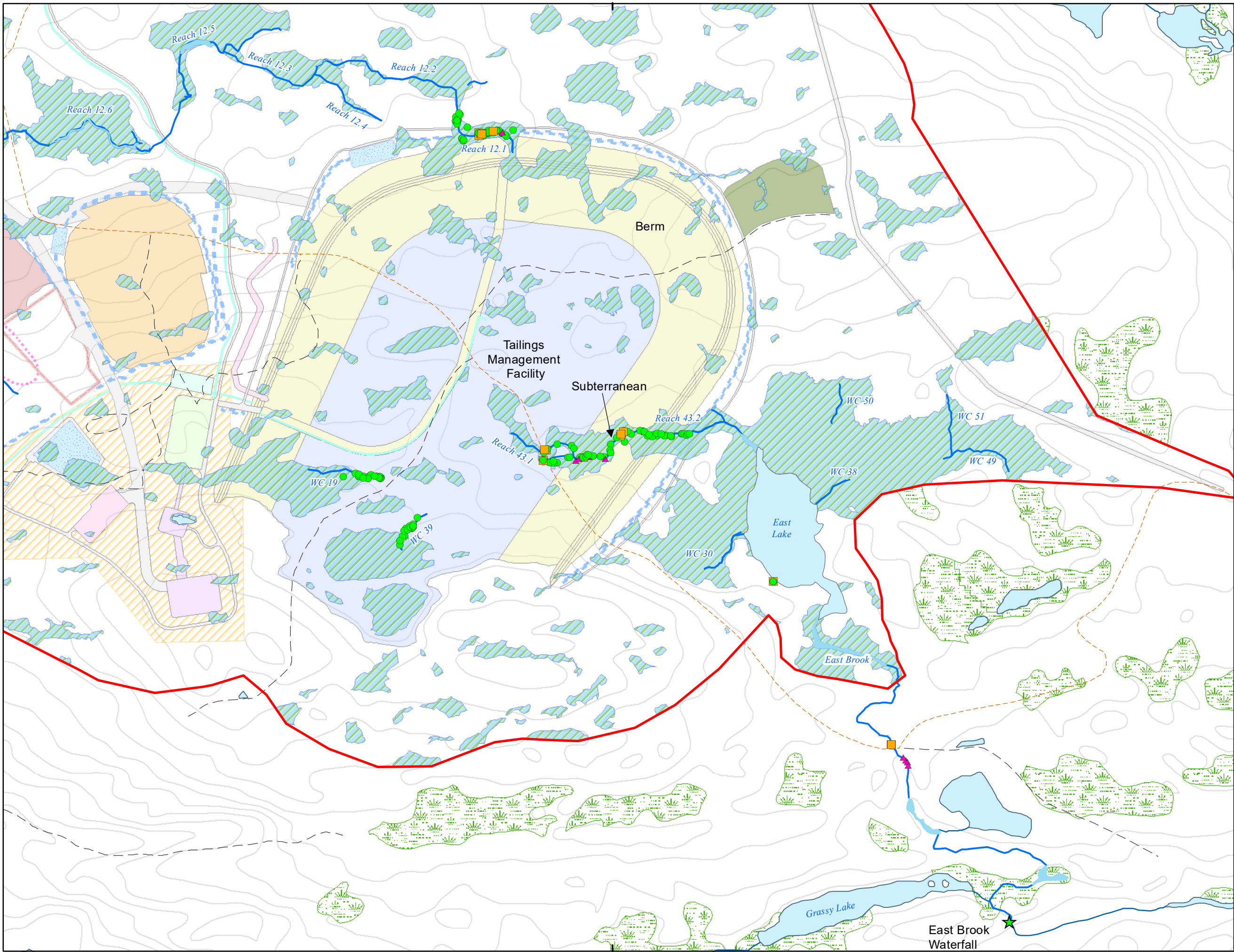










FIGURE 6.8-3

**FMS Study Area
 Watercourses 12 and
 43 Trapping Locations**

Trafalgar, NS

- Trap Locations (Fall 2019 - Spring 2020)**
-  Eel Pot
 -  Fyke Net
 -  Minnow Trap
 -  Field Delineated Watercourses within FMS Study Area
 -  Open Water
 -  Field Delineated Wetlands within FMS Study Area
 -  NSE Wetlands outside FMS Study Area
 -  FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter

0 125 250 500 m

1:10,000 Scale when printed @ 11" x 17"

Drawn By: EP Date: 2020-08-28

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Prepared For:



FIGURE 6.8-4

FMS Study Area
eDNA Sampling Locations

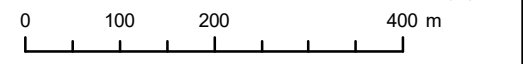
Trafalgar, NS

eDNA Result

- Negative
- Positive
- Field Delineated Watercourses within FMS Study Area
- - - Subterranean
- Open Water
- ▨ Field Delineated Wetlands within FMS Study Area
- ▨ NSE Wetlands outside FMS Study Area
- FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Projection: Transverse Mercator
Datum: North American 1983 CSRS
Units: Meter



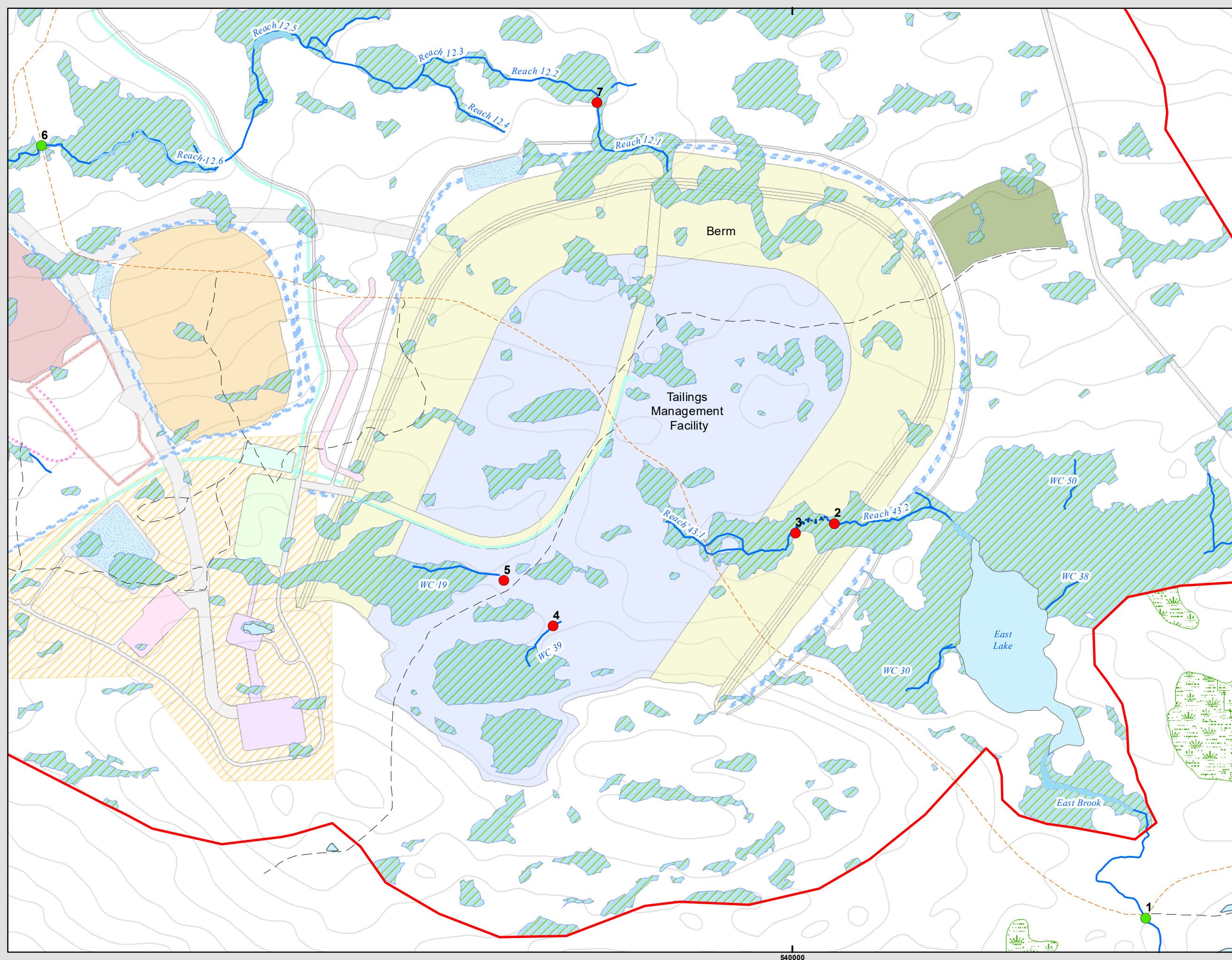
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Drawn By: EP Date: 2020-08-28

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FIGURE 6.8-5

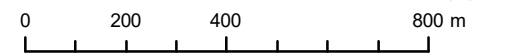
**FMS Study Area
 Anticipated Fish Habitat
 Impact Area by Type**

Trafalgar, NS

-  Water Control Structures: Approximate Locations
-  Potential Indirect Impact: Reduction in Surface Flow
-  Potential Indirect Impact: Erosion/Sedimentation
-  Direct Impact: Infrastructure Footprint
-  Direct Impact: MDMER
-  Fisheries Resource
-  Provincially Regulated Watercourse
-  Direct Impacts to Open Water
-  Direct Impacts to Wetland Accessible by Fish
-  Field Delineated Wetlands within FMS Study Area
-  NSE Wetlands outside FMS Study Area
-  FMS Infrastructure Layout
-  FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



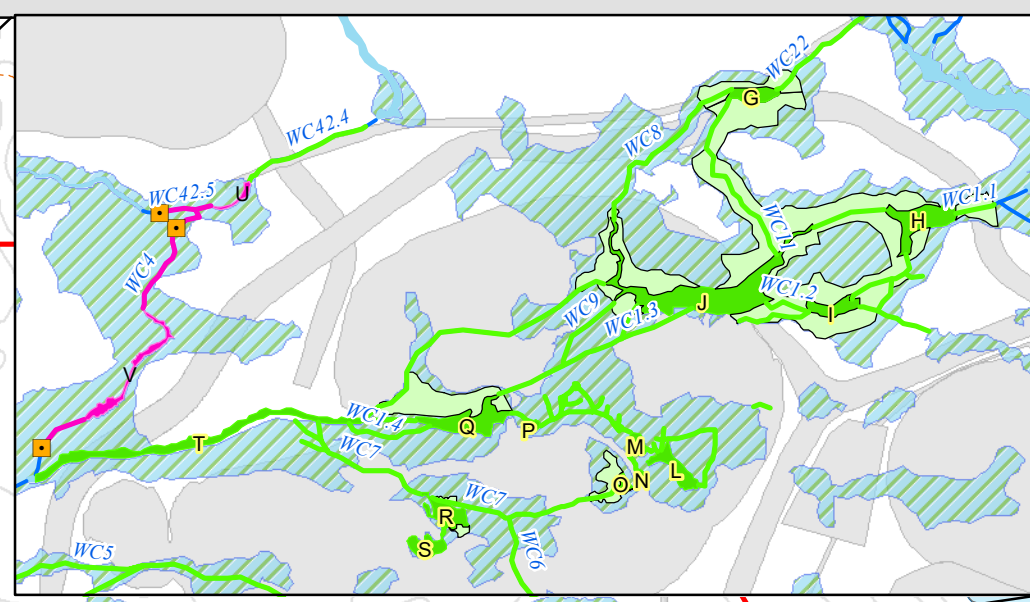
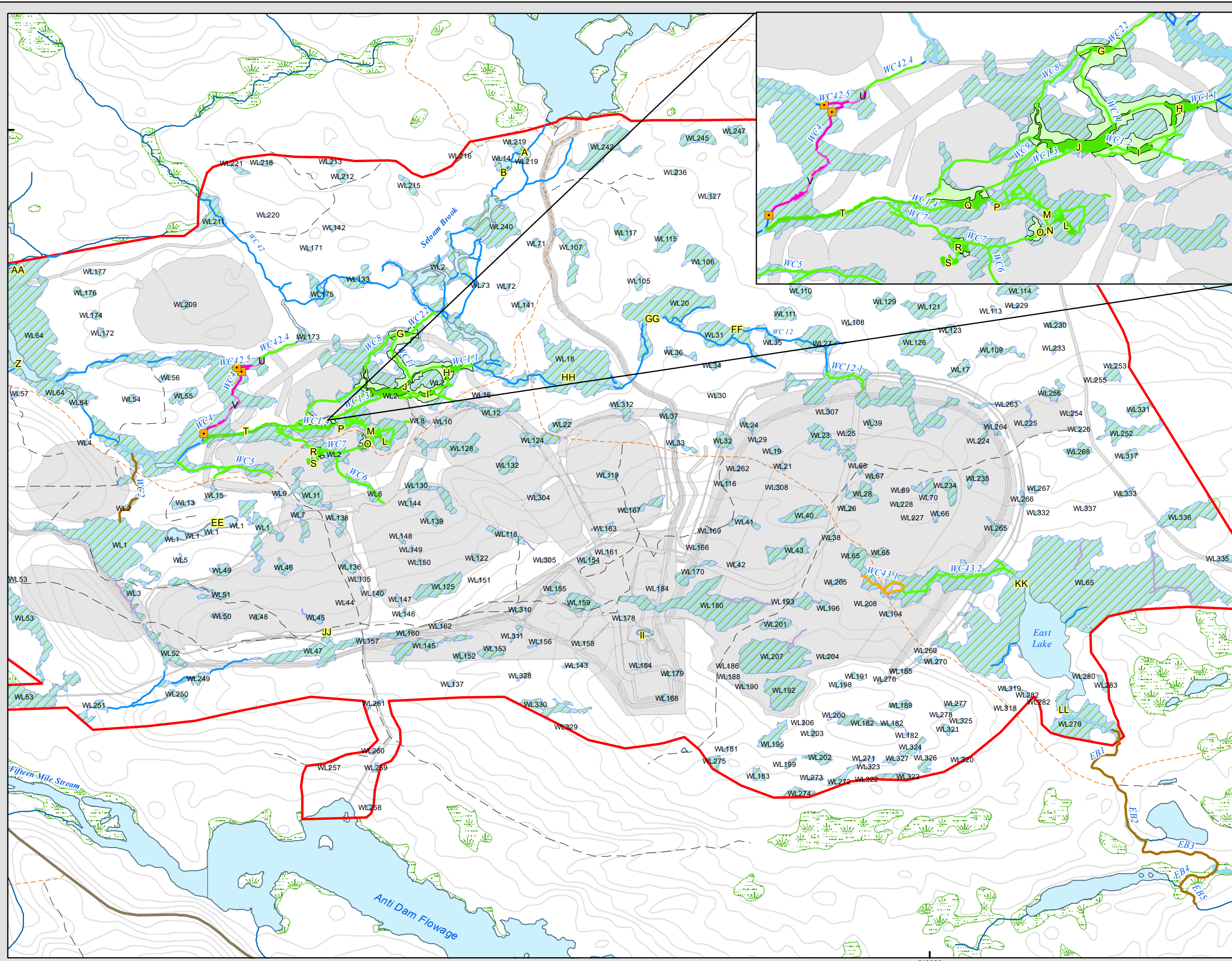
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FIGURE 6.8-6

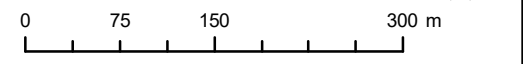
Seloam Brook Realignment Anticipated Fish Habitat Impacts

Trafalgar, NS

- Inlet Structures: Approximate Locations
- Water Control Structures: Approximate Locations
- Potential Indirect Impact: Reduction in Surface Flow
- Potential Indirect Impact: Erosion/Sedimentation
- Direct Impact: Infrastructure Footprint
- Fisheries Resource
- Predicted Flooding Extent
- Direct Impacts to Open Water
- Direct Impacts to Wetland Accessible by Fish
- Field Delineated Wetlands within FMS Study Area
- NSE Wetlands outside FMS Study Area
- FMS Infrastructure Layout
- FMS Study Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



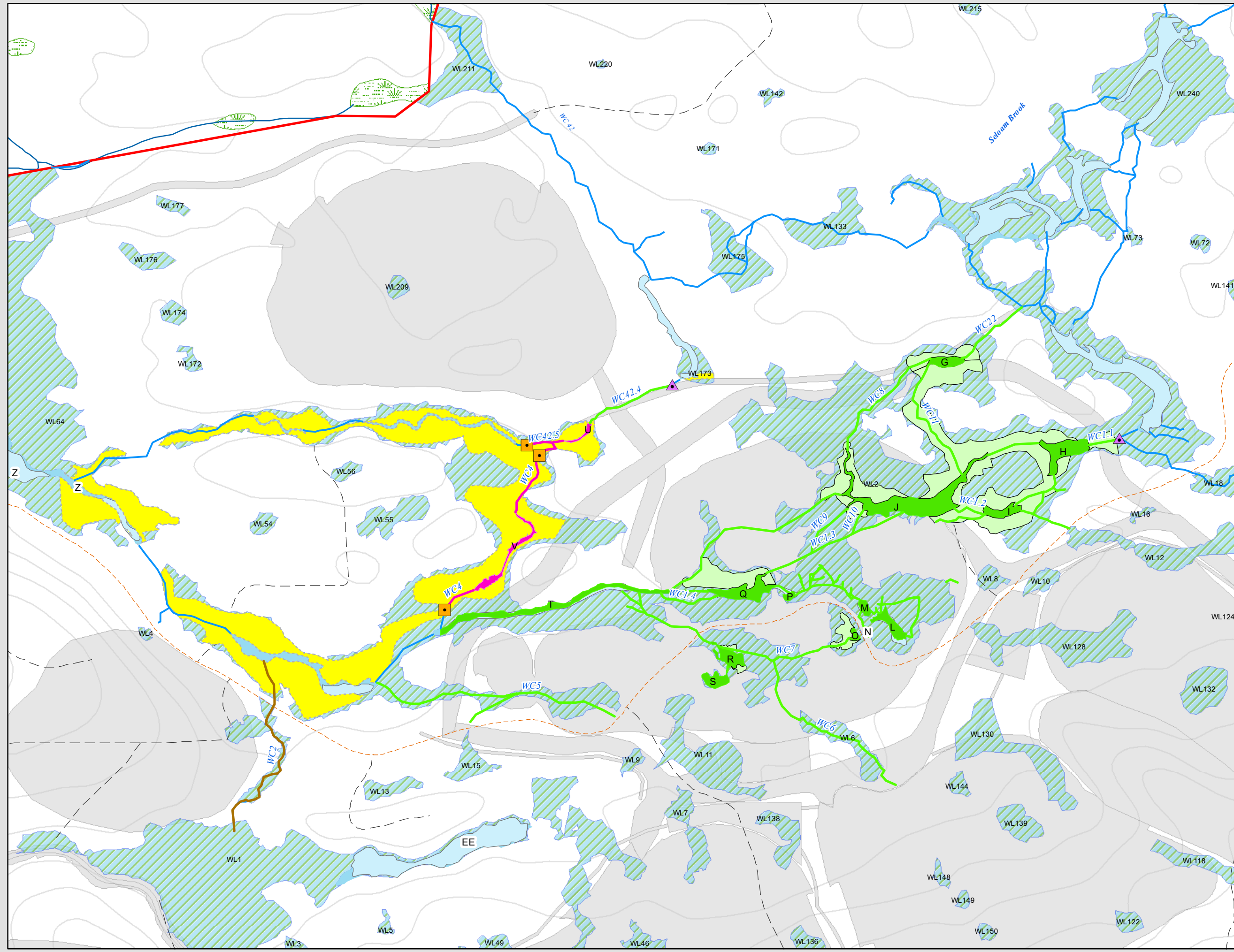
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Drawn By: AS Date: 2020-10-29

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



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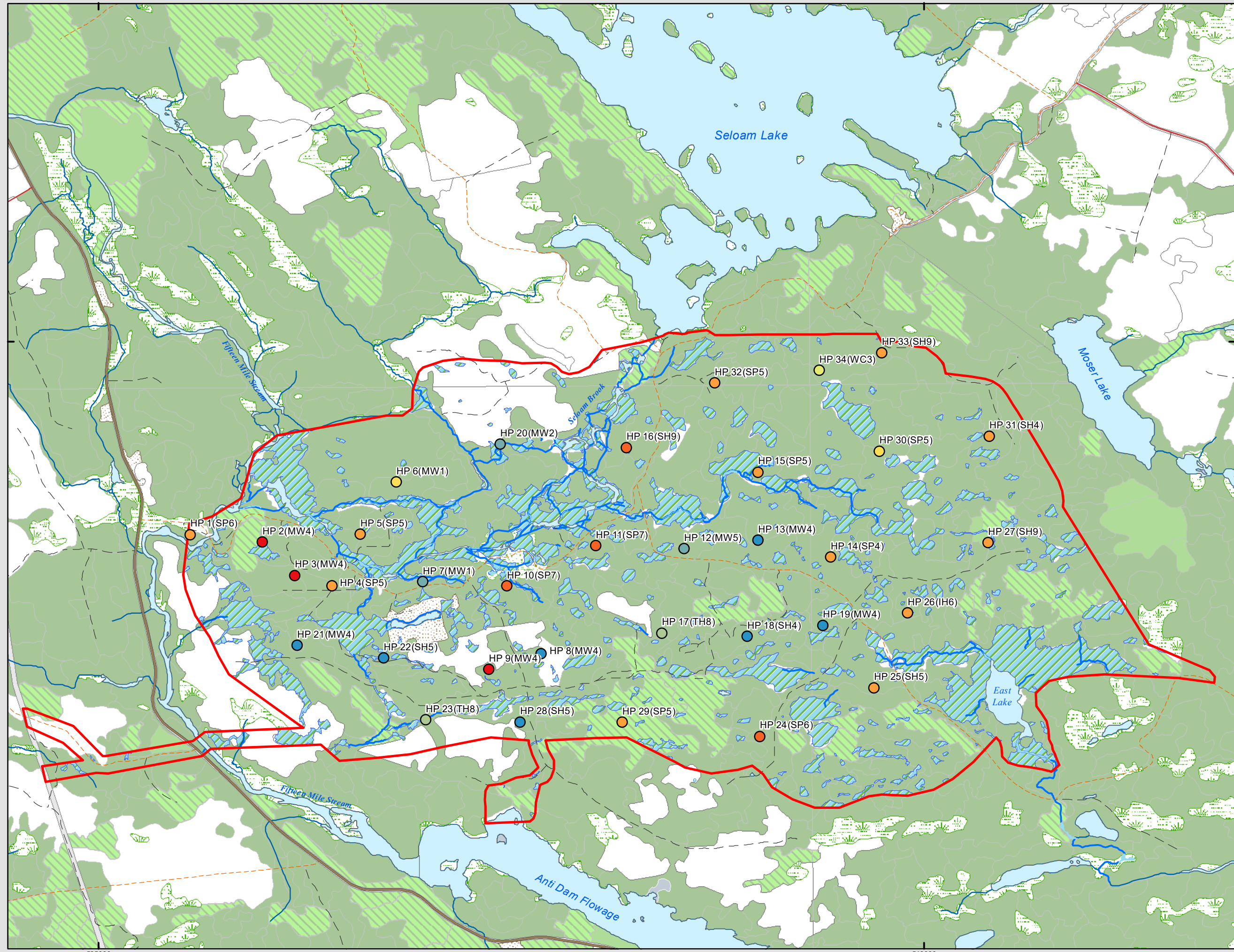
Prepared For:



FIGURE 6.9-1

FMS Study Area
Habitat Survey Locations

Trafalgar, NS



Ecosite at each Habitat Point (Habitat Point and Vegetation Type)

- AC10
- AC11
- AC13
- AC4
- AC5
- AC6
- AC7
- AC9

Field Delineated Watercourses within FMS Study Area

- Field Delineated Wetlands within FMS Study Area
- NSE Wetlands outside FMS Study Area

Forest/Non-Forest Grouping

- Clear Cut
- Inland water
- Gravel Pit
- Power, Road or Rail Corridors

Forest Cover Type

- Softwood >75%
- Mixed Forest 25-75%



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter

0 300 600 1,200 m

1:21,500 Scale when printed @ 11" x 17"

Drawn By: EP Date: 2020-03-20

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FIGURE 6.9-2


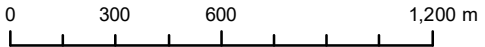
**FMS Study Area
 Priority Flora Species**

Trafalgar, NS

- Priority Flora Species**
- Blue Felt Lichen (COSEWIC & SARA SC, NSESA V, S3)
 - Appressed Jellyskin Lichen (S3)
 - Blistered Tarpaper Lichen (S3)
 - Corrugated Shingles Lichen (S3)
 - Crumpled Bat's Wing Lichen (S2S3)
 - Eastern Candlewax Lichen (S2S3)
 - Fringe Lichen (S3S4)
 - Ghost Antler Lichen (S2S3)
 - Silvery-flowered Sedge (S3S4)
 - Southern Twayblade (S3)
 - Wiegand's Sedge (S3)
 - Field Delineated Watercourses within FMS Study Area
 - Boreal Felt Lichen Predictive Habitat
 - Field Delineated Wetlands within FMS Study Area
 - NSE Wetlands outside FMS Study Area
 - FMS Infrastructure Layout
 - FMS Study Area



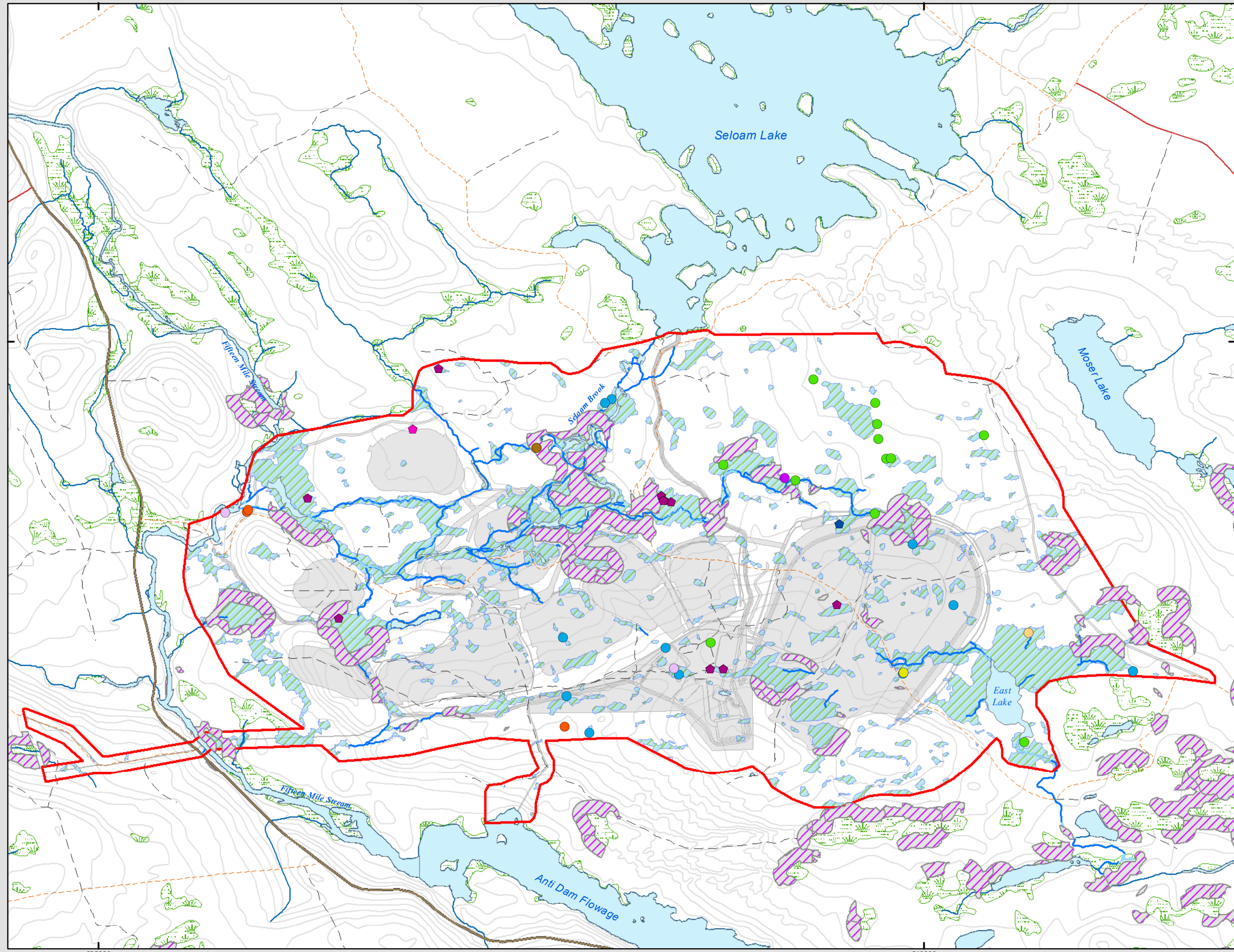
Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter

1:21,500 Scale when printed @ 11" x 17"

Drawn By: AS Date: 2020-10-30

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