

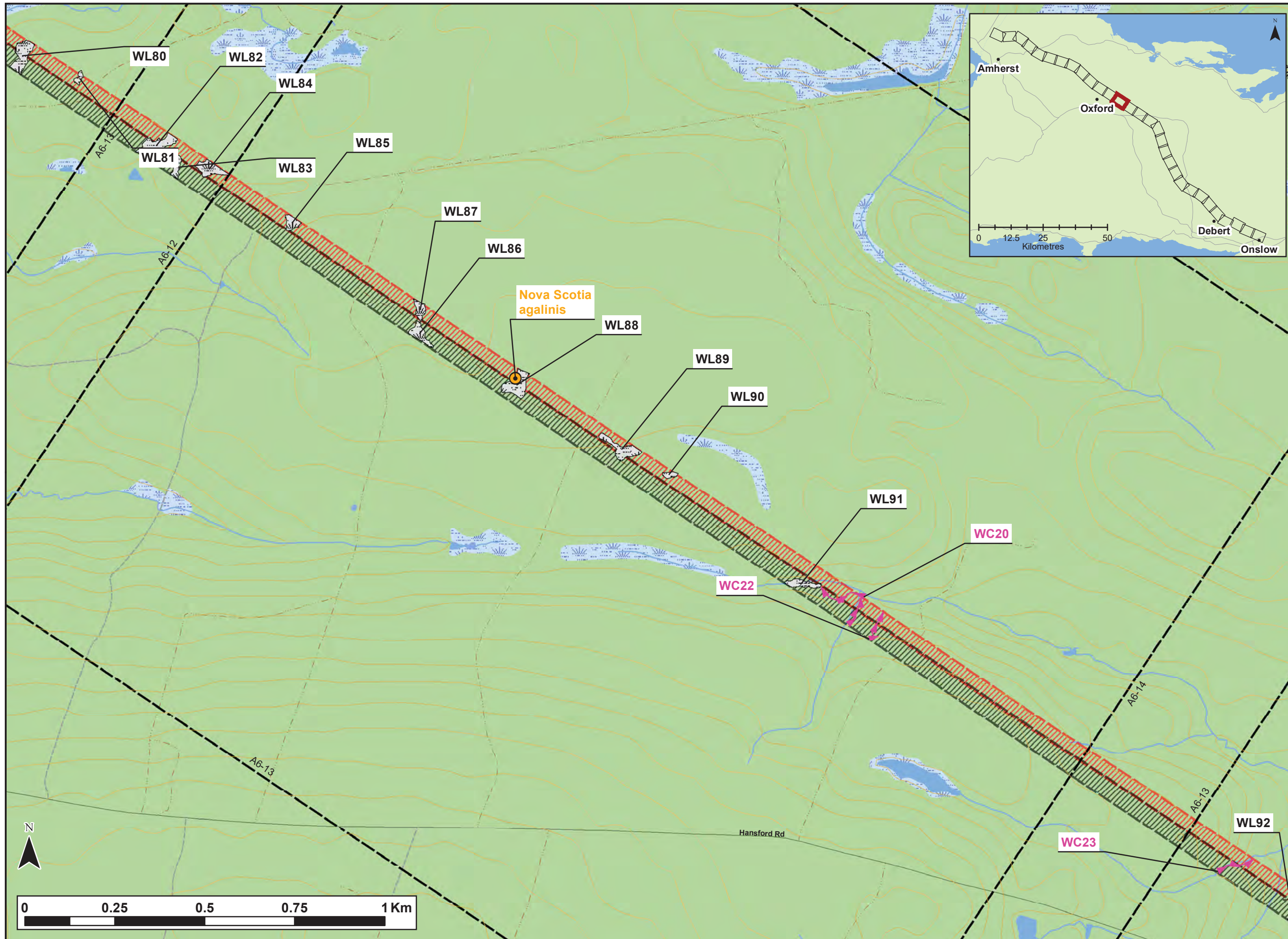
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
 - Non-Delineated Watercourse
 - Field Identified Wetland
 - Existing L8001 ROW
 - Proposed L8005 ROW
 - Contours (m)
 - NB/NS Border
 - Drawing Sheet
- Transportation**
- Highway
 - Arterial Road
 - Collector Road
 - Local Road
 - Unpaved Road
 - Track
 - Trail
 - Railroad
- Water Features**
- Mapped Stream
 - Mapped Indefinite Stream
 - Mapped Wet Area

**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-12
Drawn By: M. Savelle	Checked By: H. Mosher



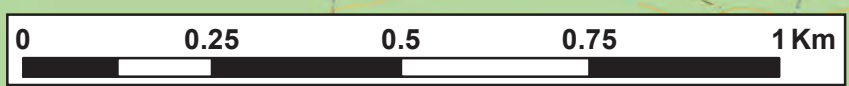
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 2. Projection: NAD83 UTM Zone 20 North.

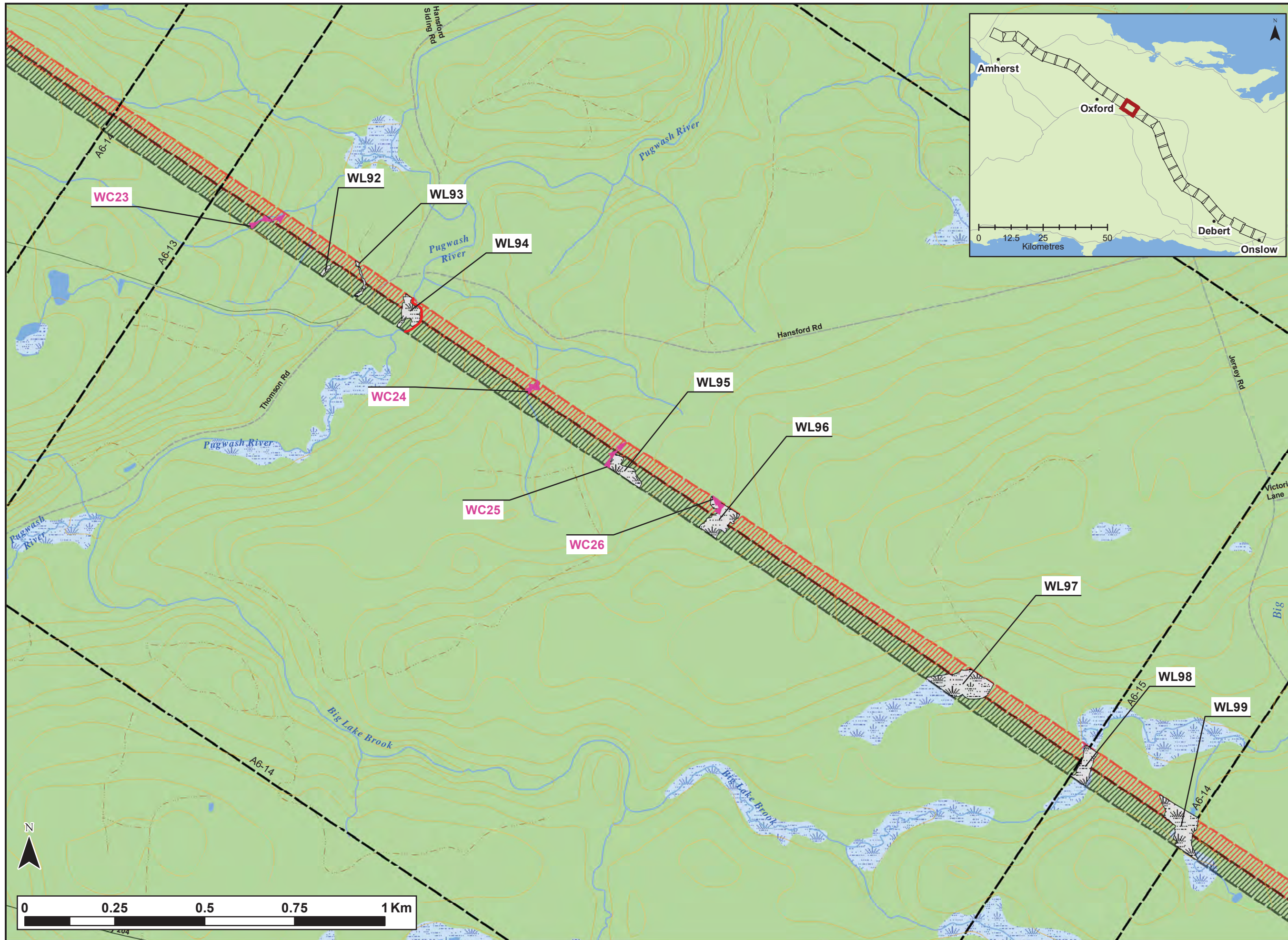
- Legend:**
- Field Identified Rare Species
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- Water Features**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-13
Drawn By: M. Savelle	Checked By: H. Mosher





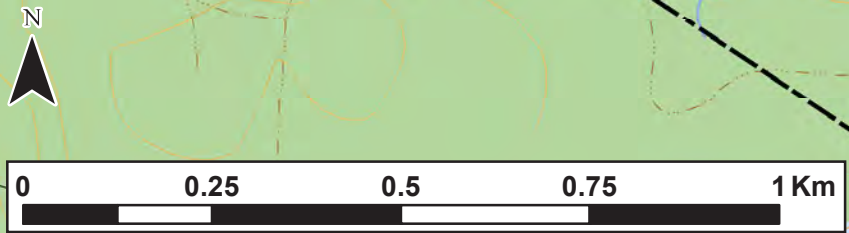
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 2. Projection: NAD83 UTM Zone 20 North.

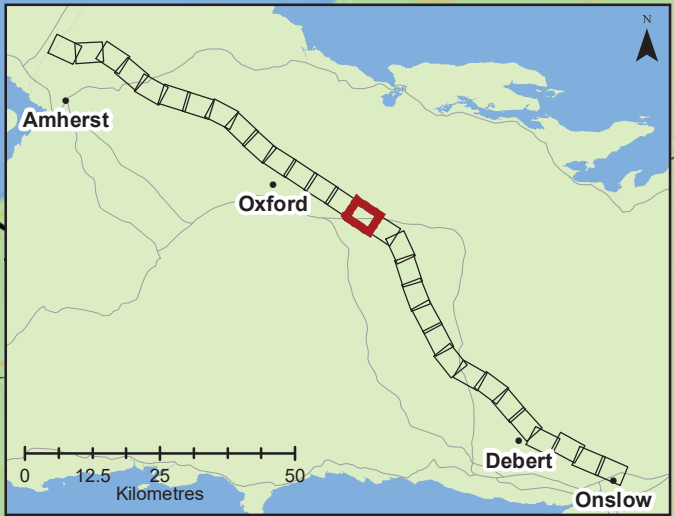
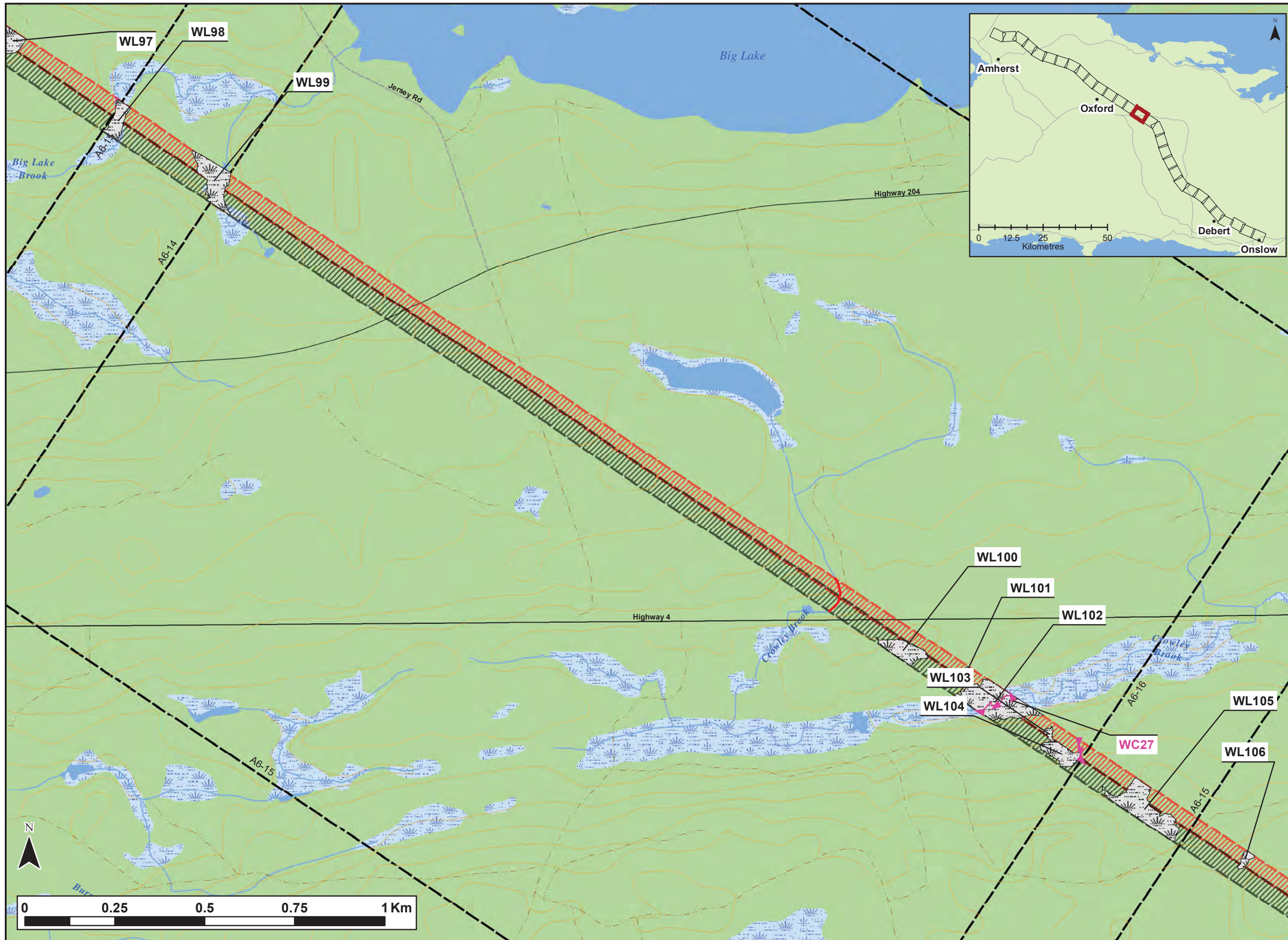
- Legend:**
- Field Identified Rare Species
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- Water Features**
- Mapped Stream
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-14
Drawn By: M. Savelle	
Checked By: H. Mosher	





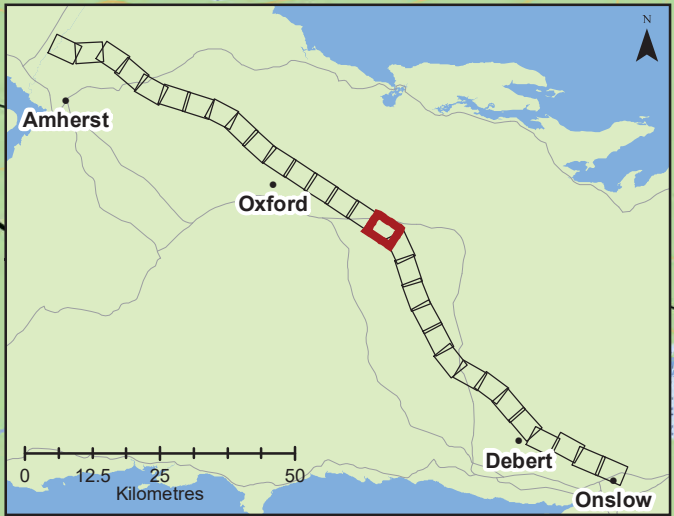
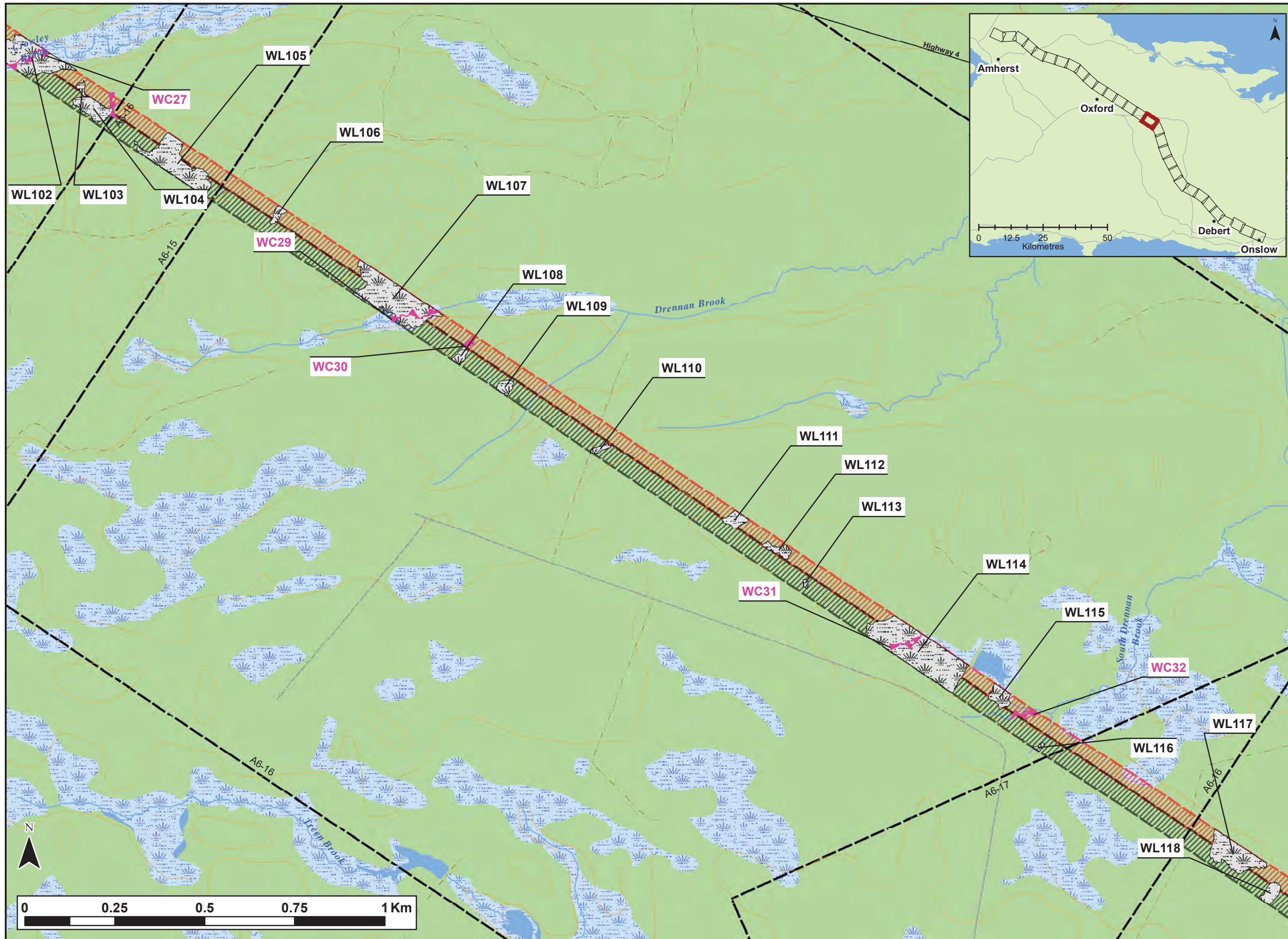
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
 - Non-Delineated Watercourse
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 - Mapped Wet Area

**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date:	Dec. 2020	Project #:	20-7464
Scale:	1:10,000	Drawing #:	A6-15
Drawn By:	M. Savelle		
Checked By:	H. Mosher		



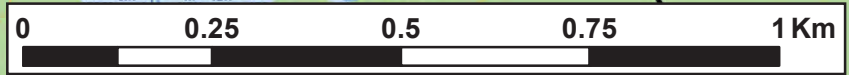
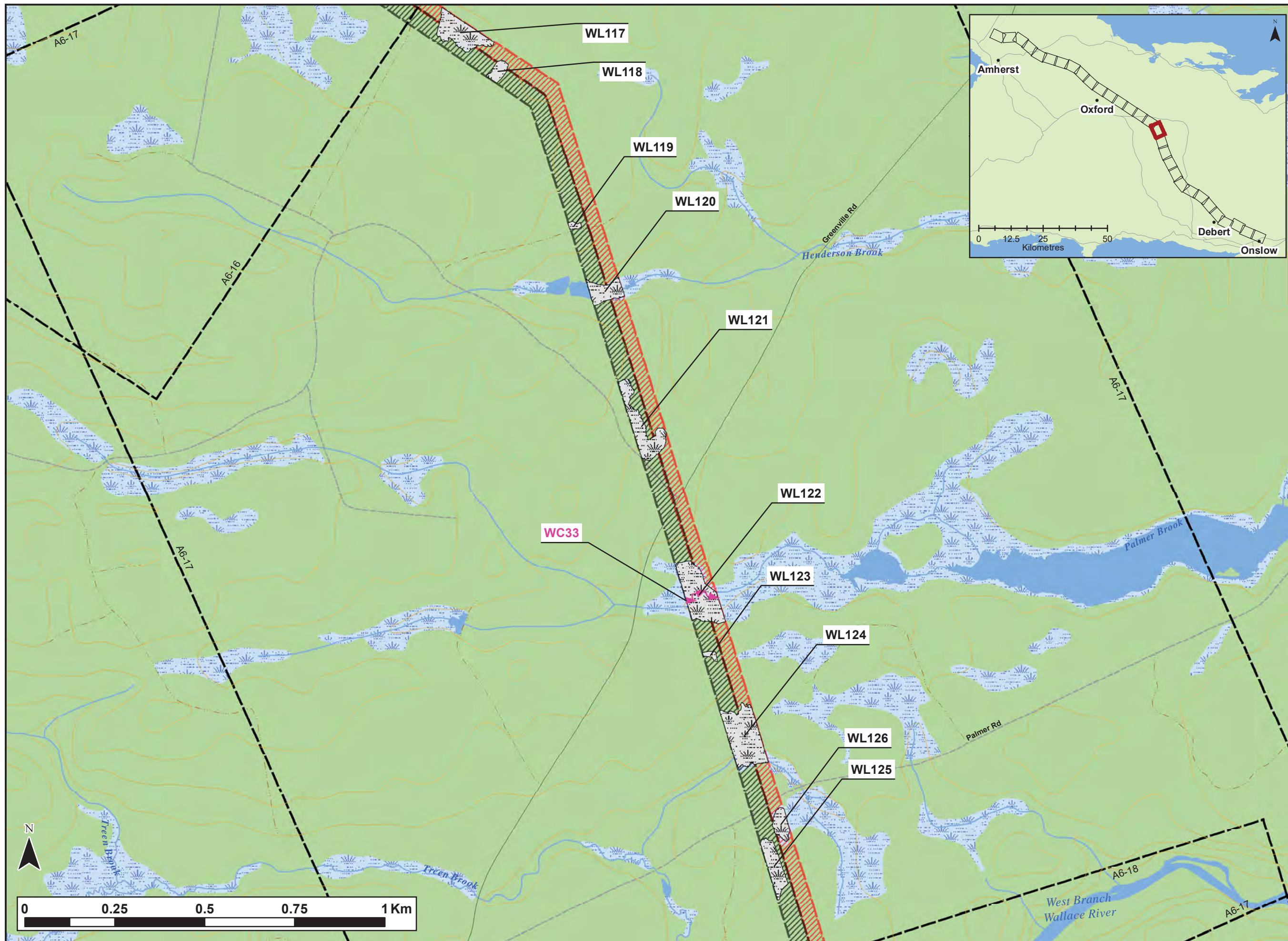
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
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 - Contours (m)
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 - Drawing Sheet
- Transportation**
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 - Railroad
- Water Features**
- Mapped Stream
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-16
Drawn By: M. Savelle	
Checked By: H. Mosher	



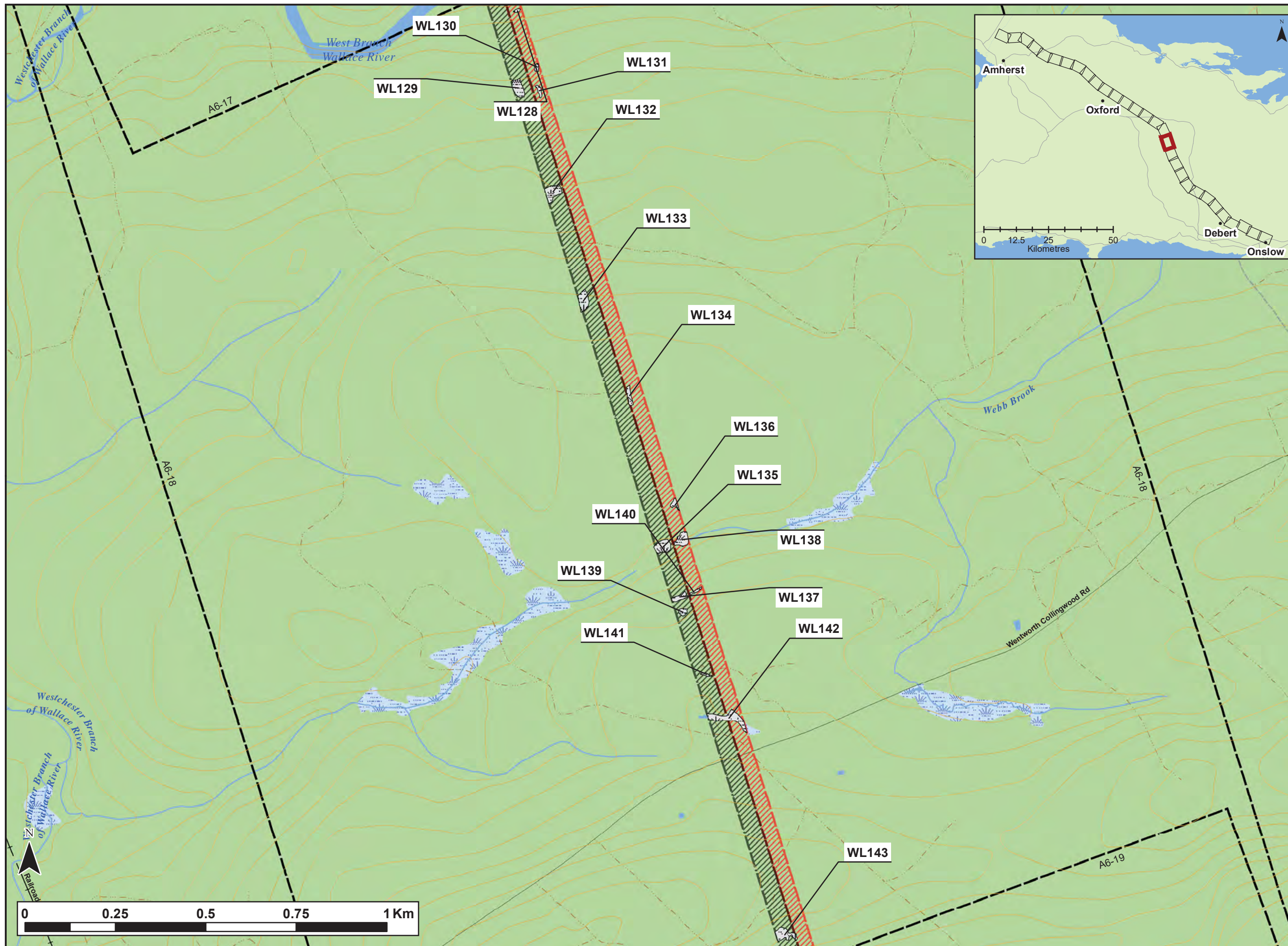
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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 - Non-Delineated Watercourse
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 - Contours (m)
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 - Collector Road
 - Local Road
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 - Railroad
- Water Features**
- Mapped Stream
 - Mapped Indefinite Stream
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



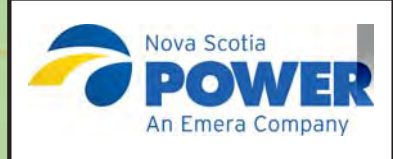
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Scale: 1:10,000	Drawing #: A6-17
Drawn By: M. Savelle	
Checked By: H. Mosher	



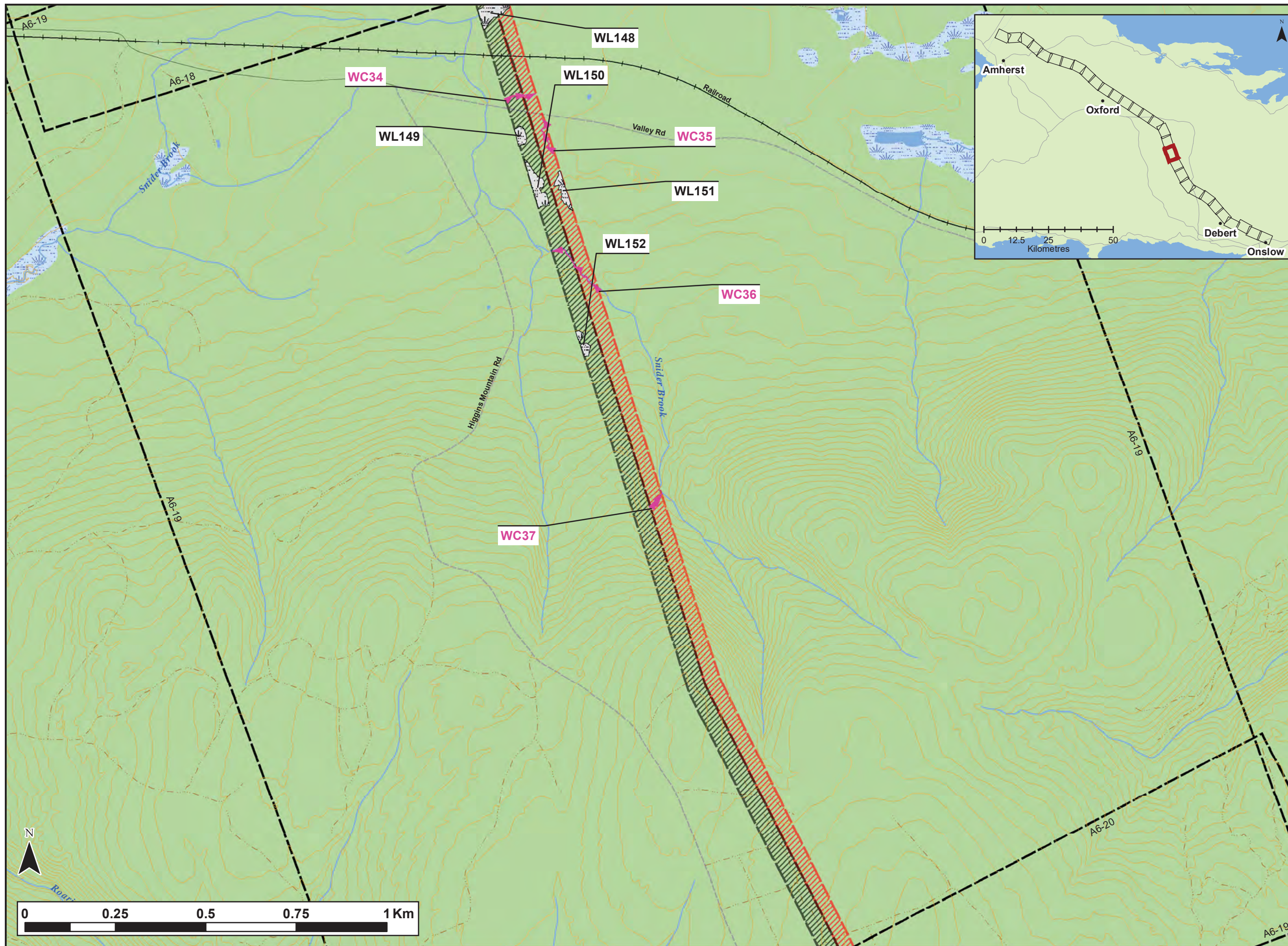
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-18
Drawn By: M. Savelle	
Checked By: H. Mosher	



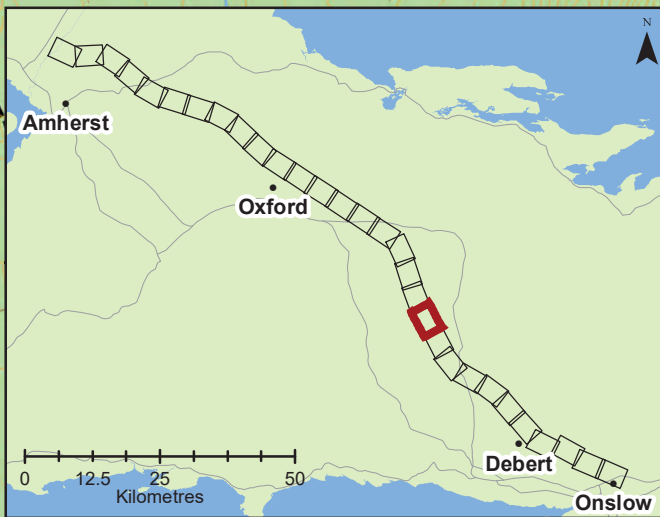
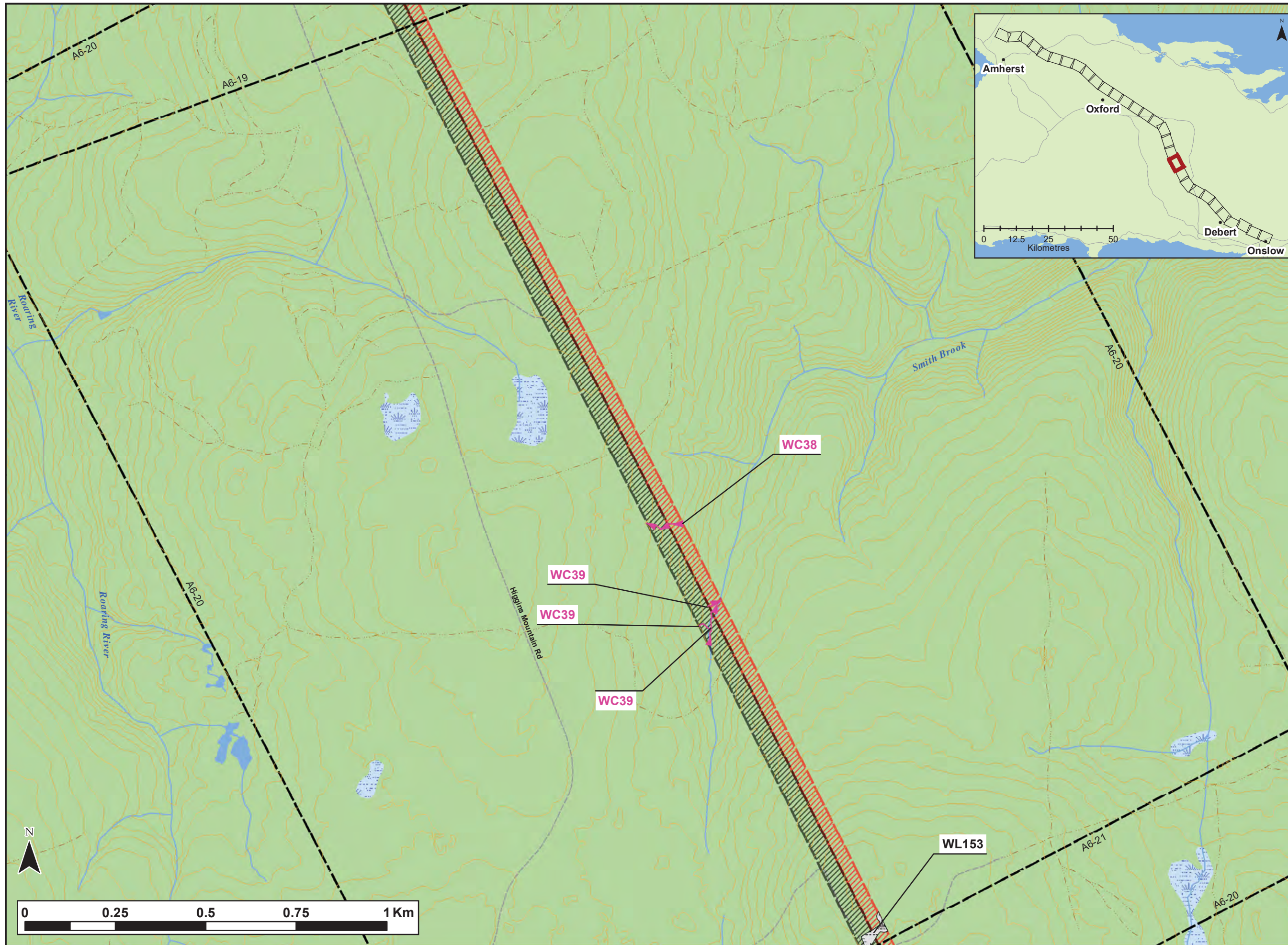
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
 - Non-Delineated Watercourse
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-19
Drawn By: M. Savelle	A6-19
Checked By: H. Mosher	



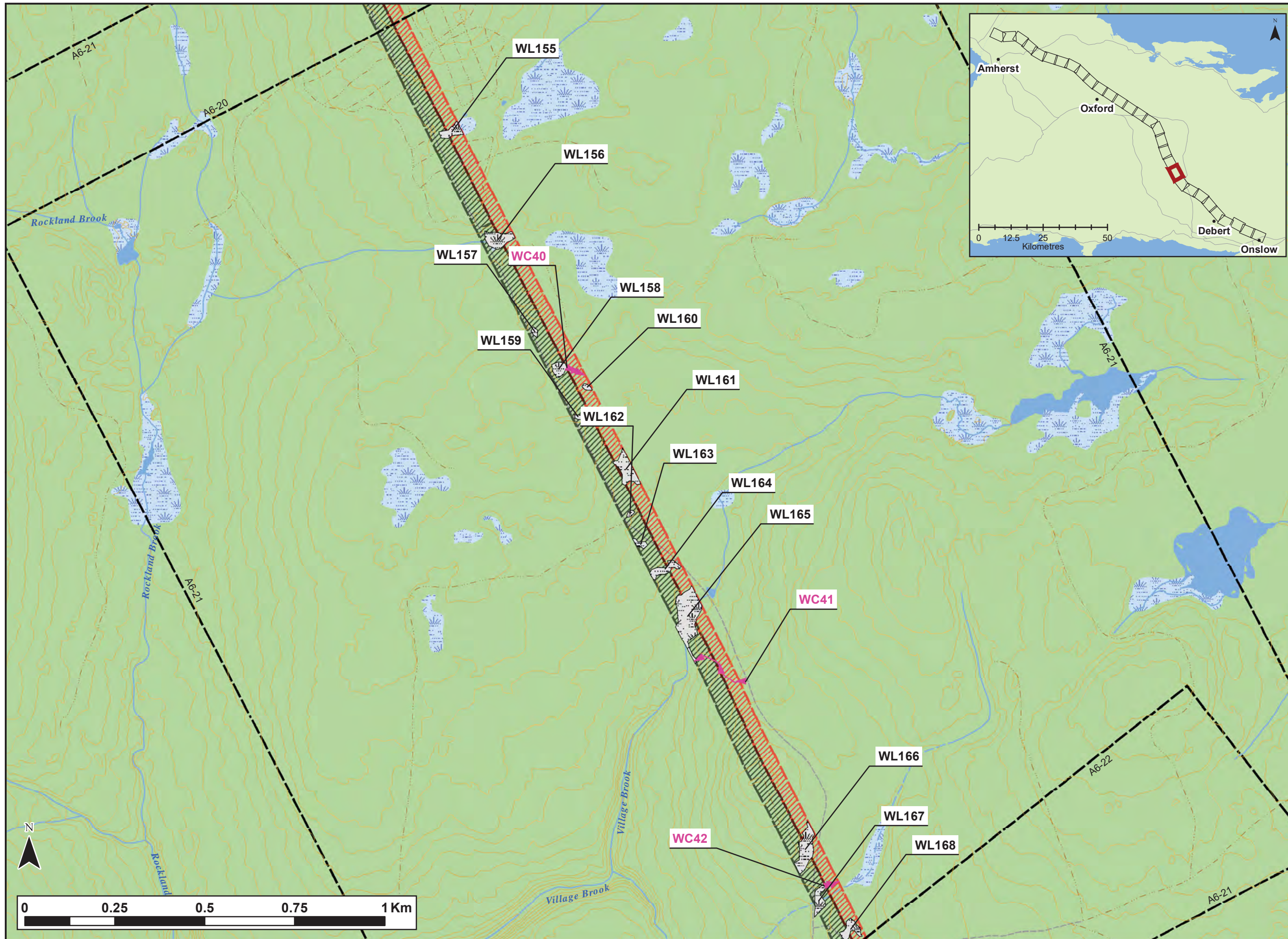
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-20
Drawn By: M. Savelle	A6-20
Checked By: H. Mosher	



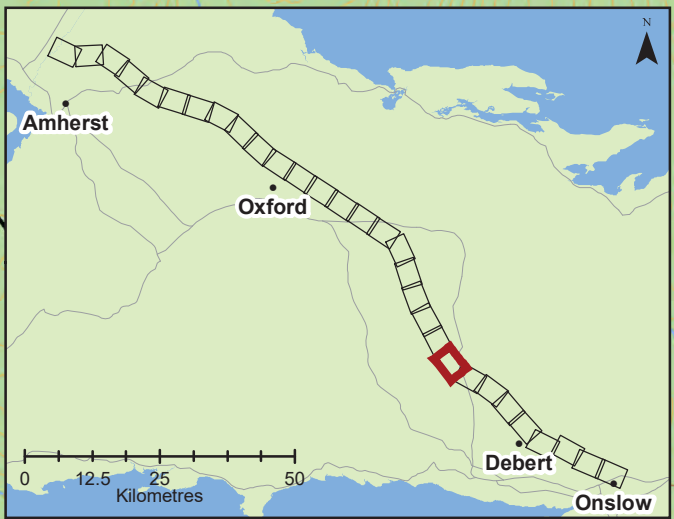
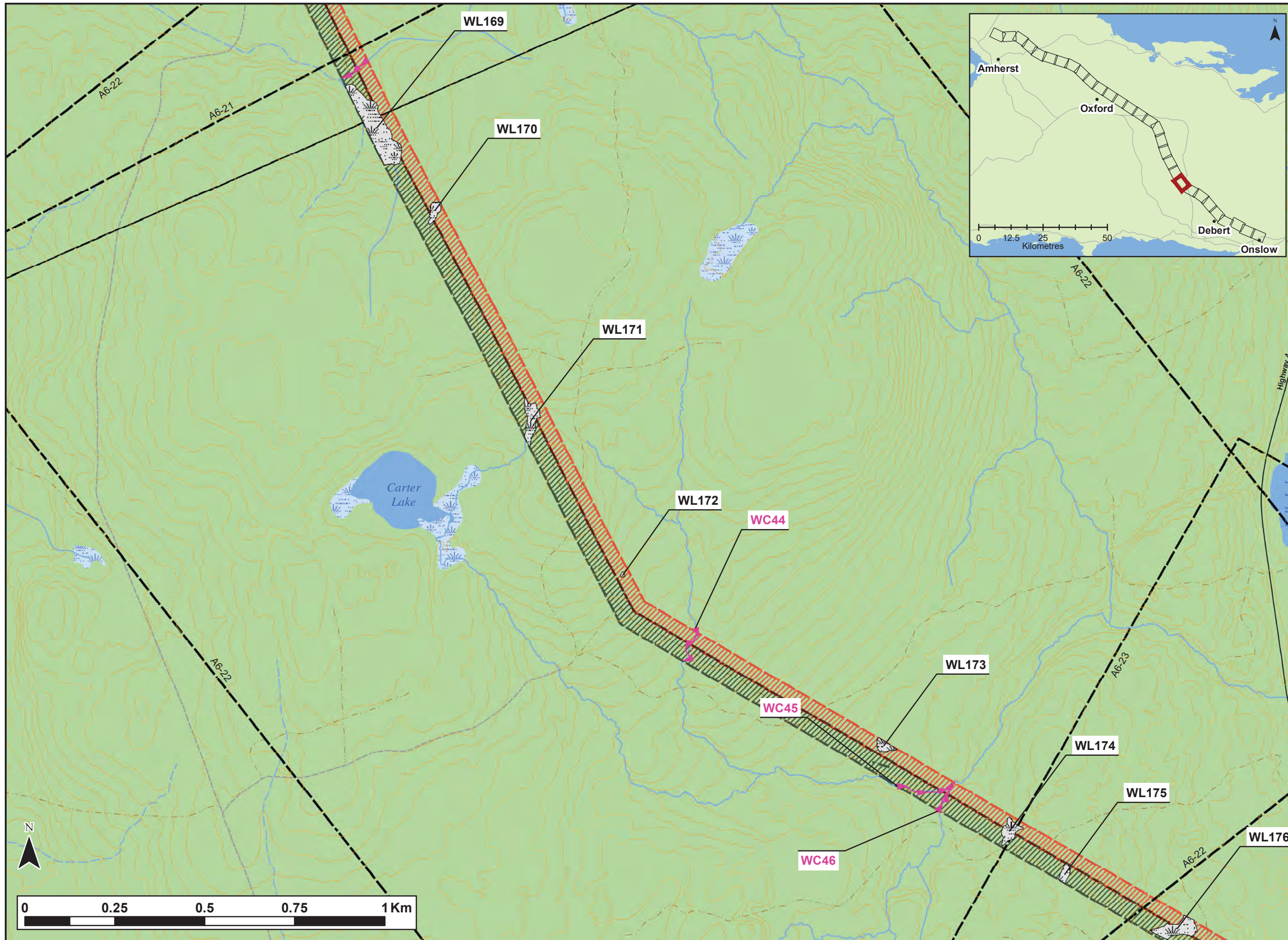
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-21
Drawn By: M. Savelle	A6-21
Checked By: H. Mosher	



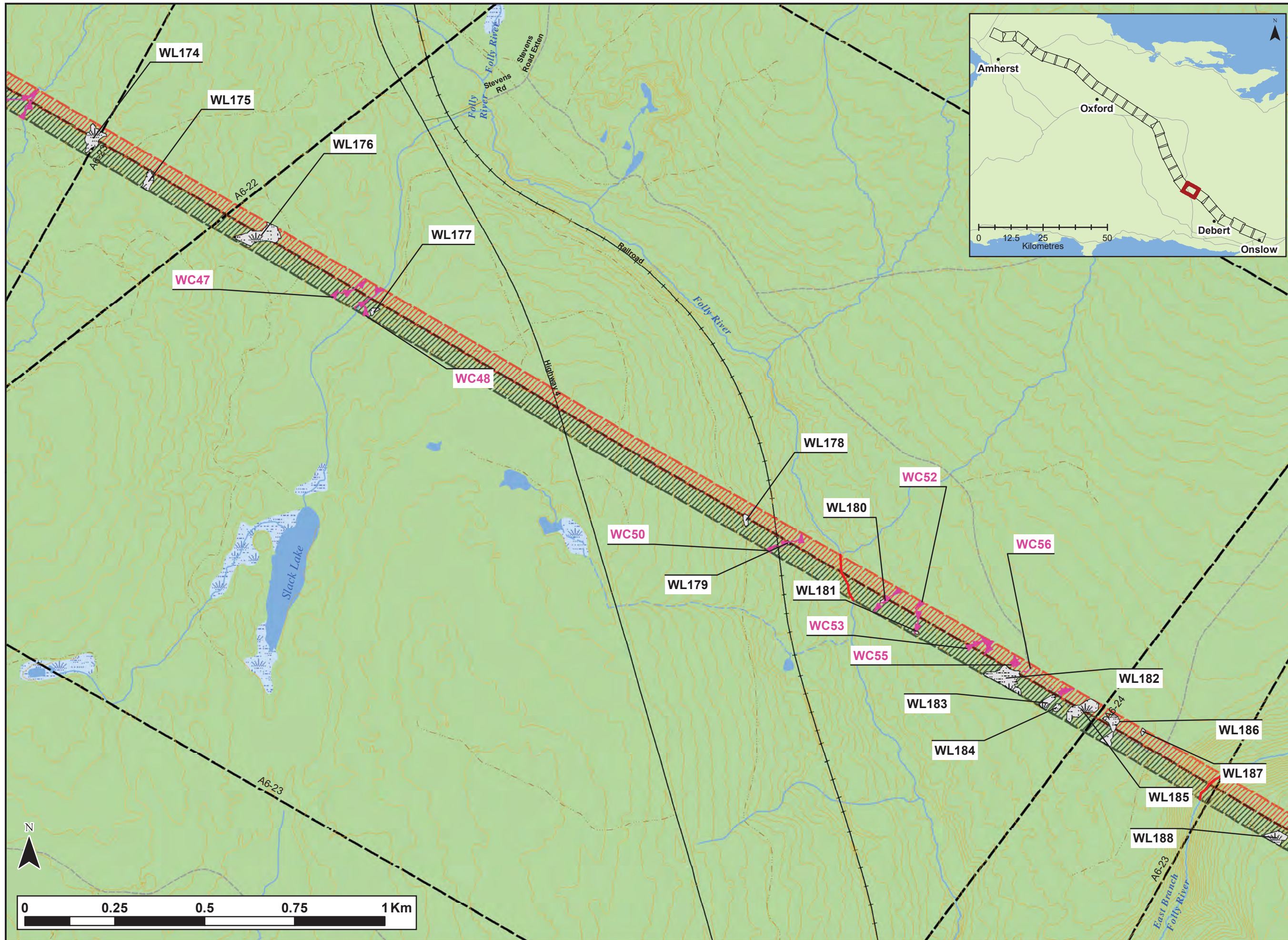
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
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- Water Features**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-22
Drawn By: M. Savelle	
Checked By: H. Mosher	



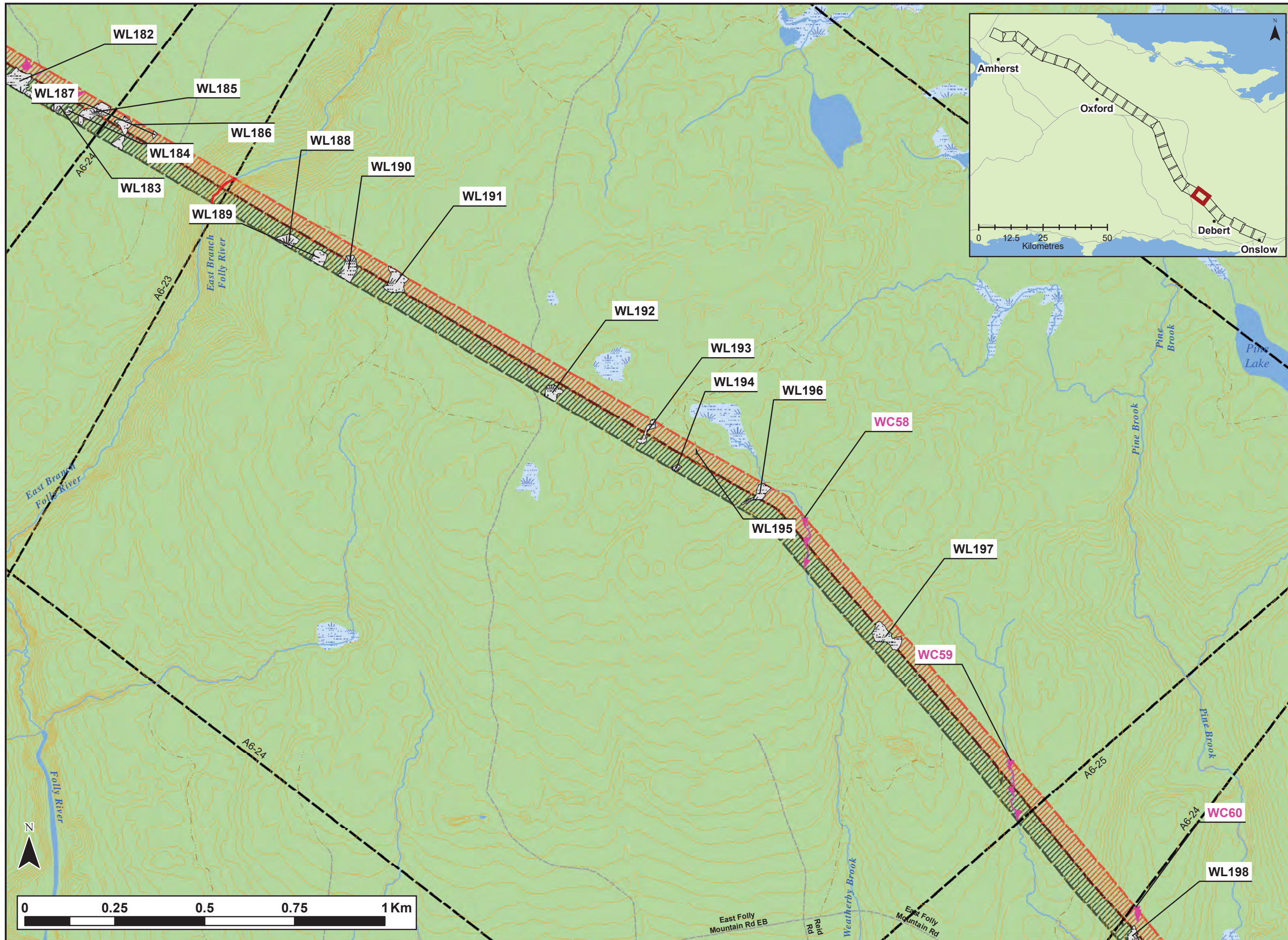
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
 - Field Identified Watercourse
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 - Contours (m)
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- Water Features**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-23
Drawn By: M. Savelle	Checked By: H. Mosher



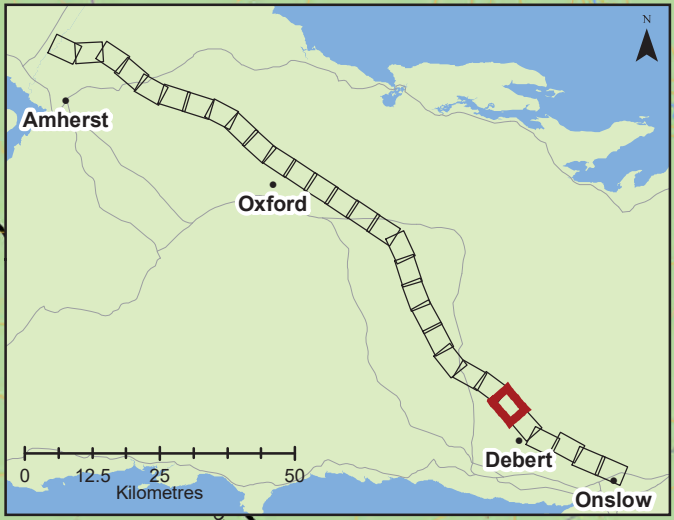
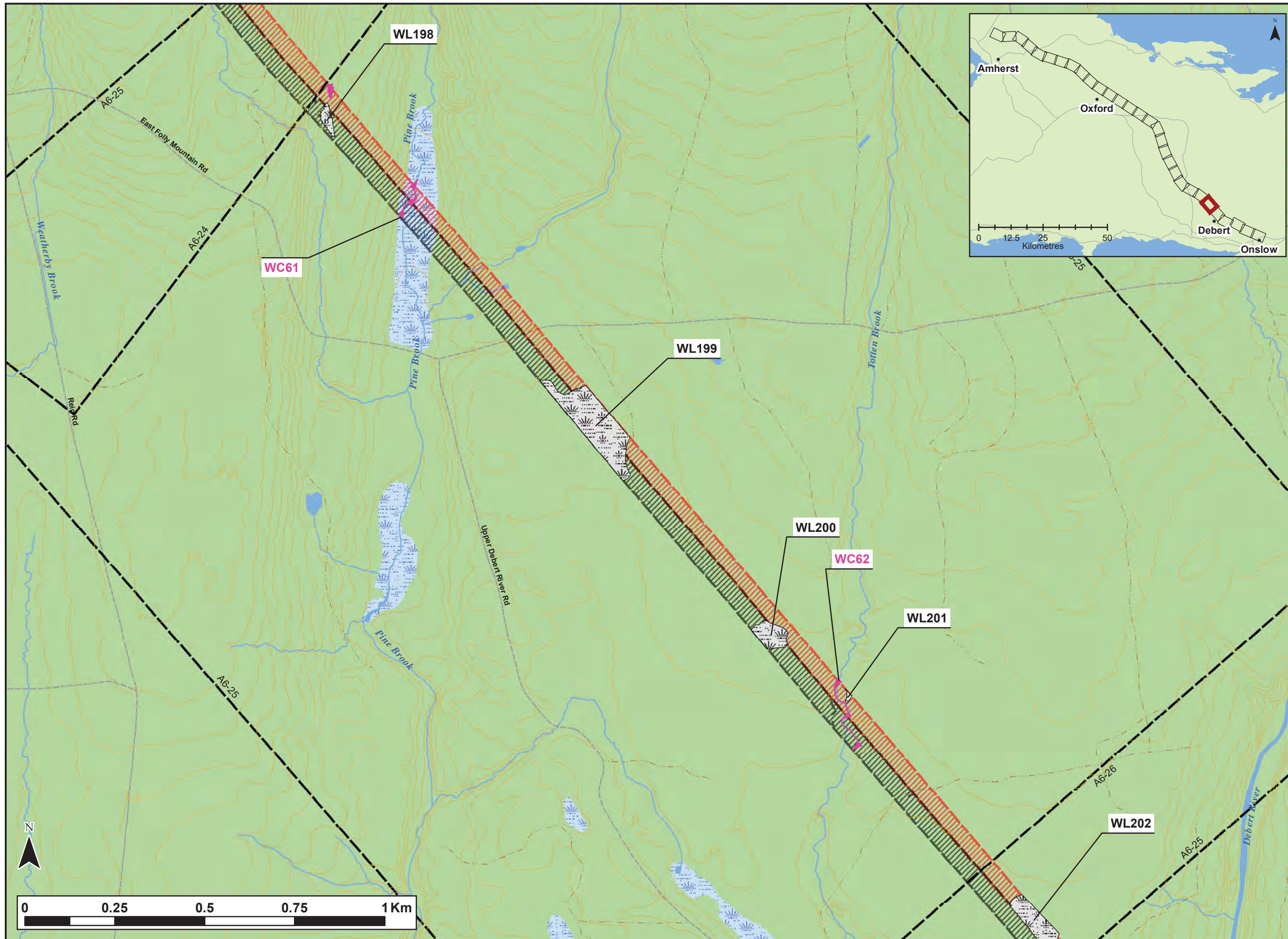
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-24
Drawn By: M. Savelle	A6-24
Checked By: H. Mosher	



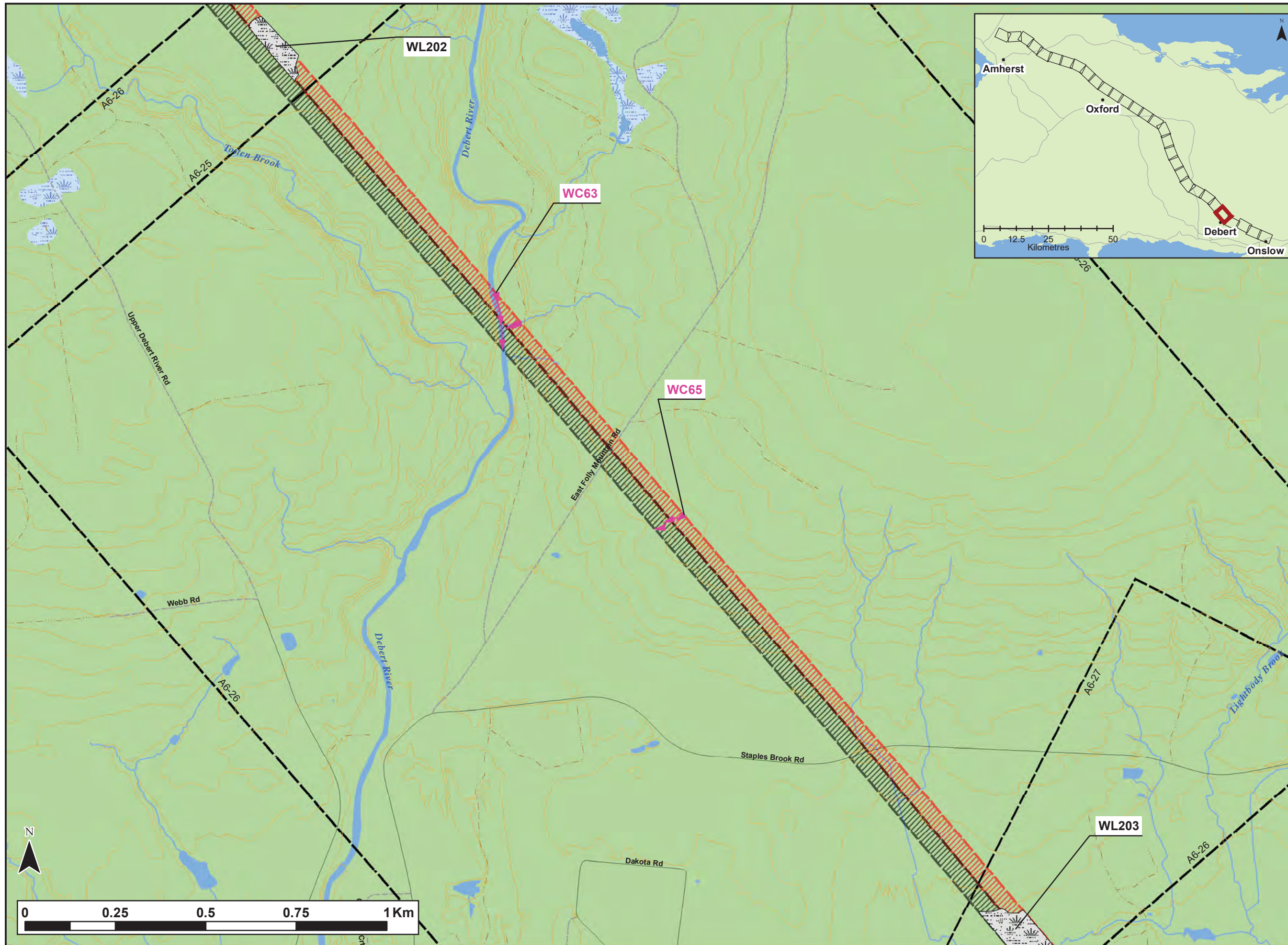
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-25
Drawn By: M. Savelle	A6-25
Checked By: H. Mosher	



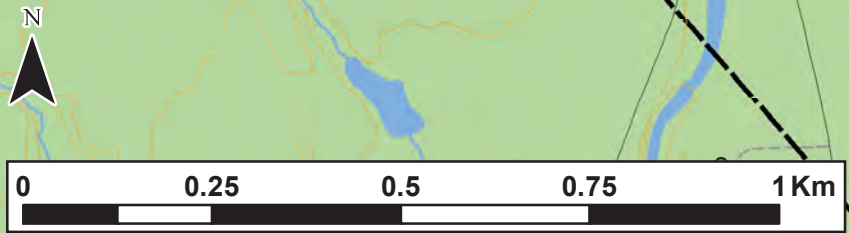
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

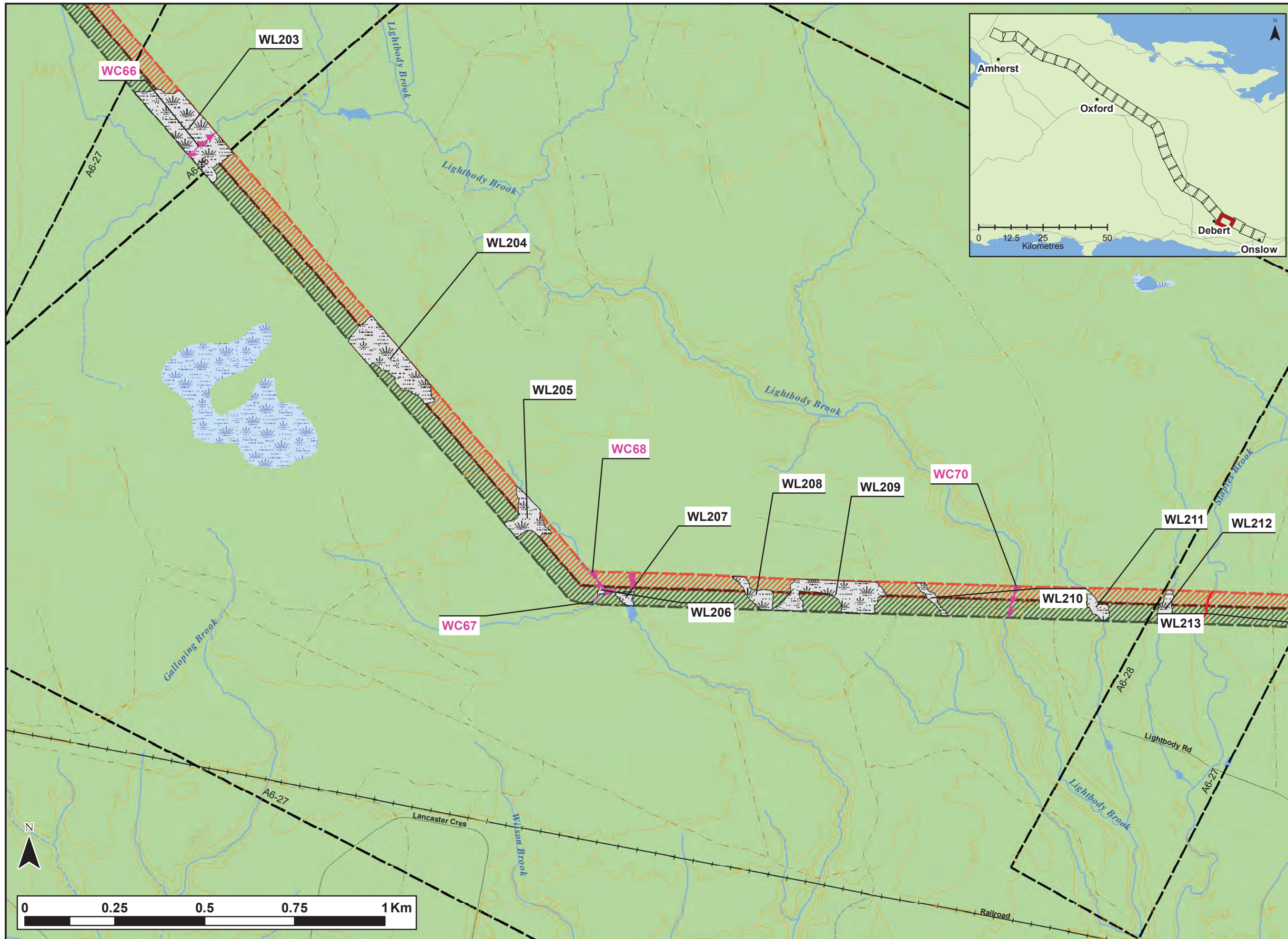
- Legend:**
- Field Identified Rare Species
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- Water Features**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-26
Drawn By: M. Savelle	Checked By: H. Mosher





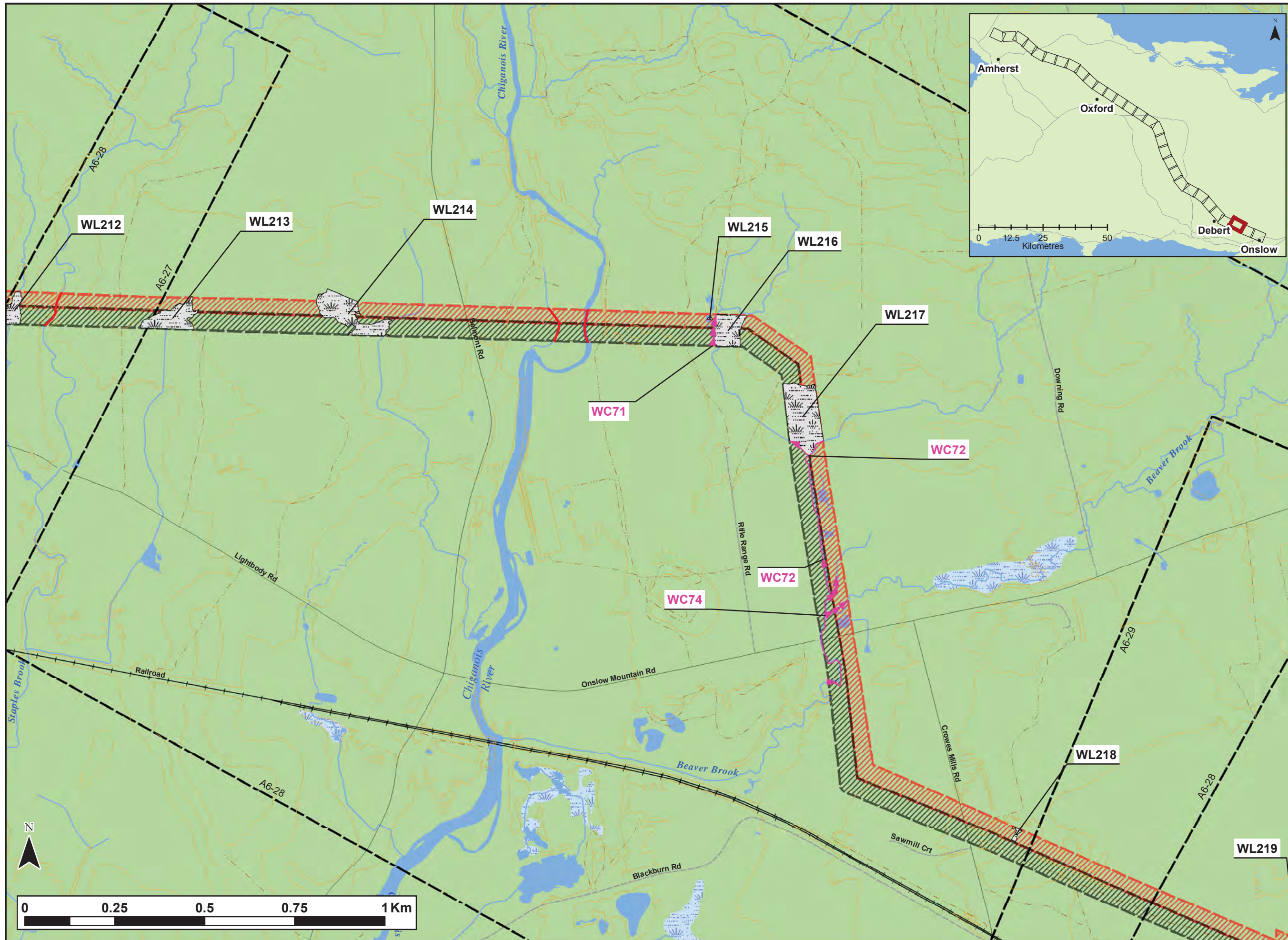
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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 - Non-Delineated Watercourse
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- Water Features**
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-27
Drawn By: M. Savelle	
Checked By: H. Mosher	



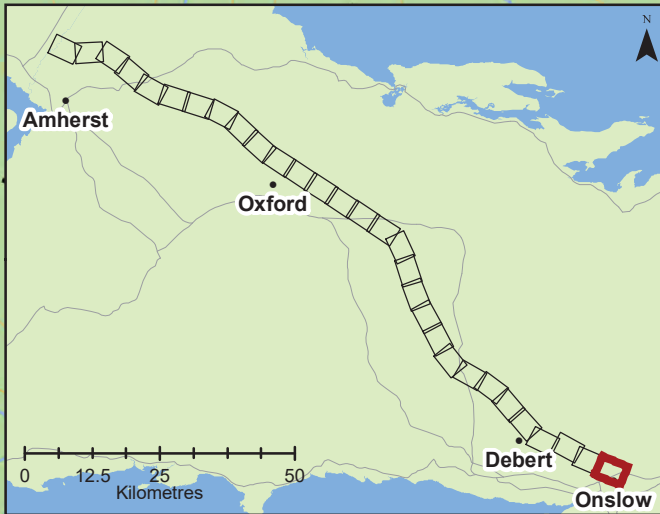
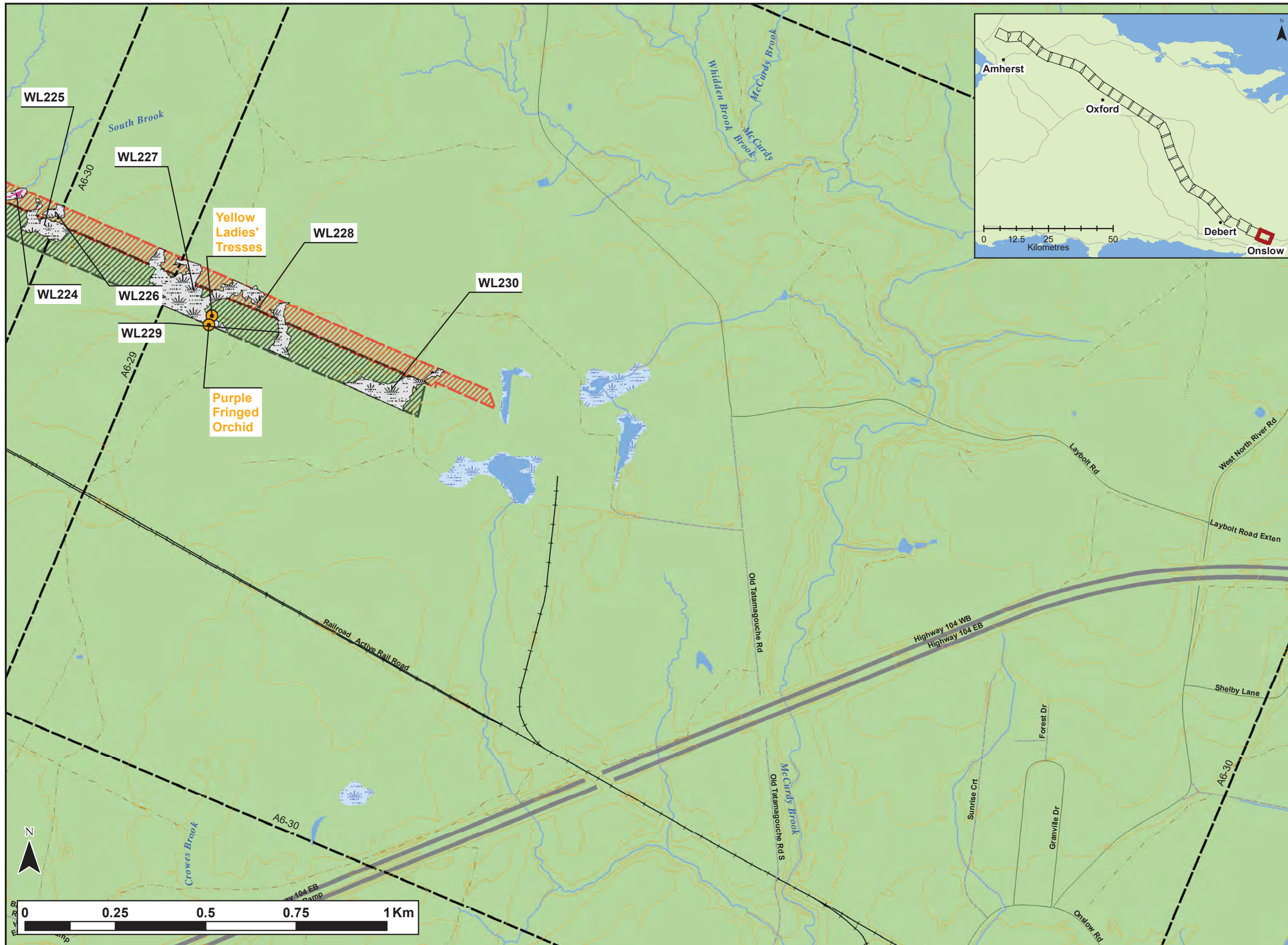
Notes:
 1. Data Sources: GeoNOVA, NSTD, NSTIR.
 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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 - Local Road
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 - Track
 - Trail
 - Railroad
- Water Features**
- Mapped Stream
 - Mapped Indefinite Stream
 - Mapped Wet Area

**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-28
Drawn By: M. Savelle	A6-28
Checked By: H. Mosher	



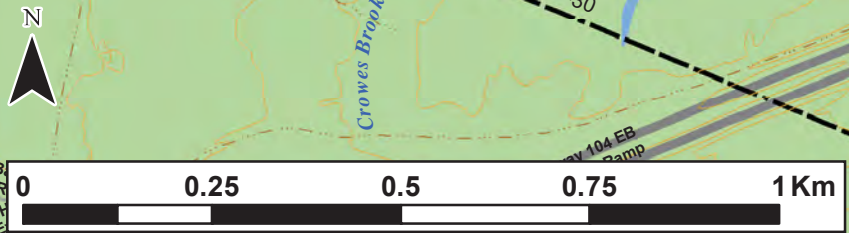
Notes:
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 2. Projection: NAD83 UTM Zone 20 North.

- Legend:**
- Field Identified Rare Species
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**L8001 & L8005
 Transmission Line
 ROW - Wetland and
 Watercourse Results**



Date: Dec. 2020	Project #: 20-7464
Scale: 1:10,000	Drawing #: A6-30
Drawn By: M. Savelle	
Checked By: H. Mosher	



APPENDIX B
SPECIES OF CONSERVATION INTEREST TABLES

Table 1. SOCI identified within 100 km of the Project Area

Project # 20-7464

Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
VASCULAR PLANTS					
<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2
<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	Threatened	Threatened		SNA
<i>Lilaeopsis chinensis</i>	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S2
<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S2
<i>Floerkea proserpinacoides</i>	False Mermaidweed	Not At Risk			S2
<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper			Endangered	S1
<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S1
<i>Acer saccharinum</i>	Silver Maple				S1
<i>Osmorhiza depauperata</i>	Blunt Sweet Cicely				S1
<i>Sanicula odorata</i>	Clustered Sanicle				S1
<i>Zizia aurea</i>	Golden Alexanders				S1
<i>Antennaria rosea</i> ssp. <i>arida</i>	Rosy Pussytoes				S1
<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes				S1
<i>Bidens hyperborea</i>	Estuary Beggarticks				S1
<i>Nabalus racemosus</i>	Glaucous Rattlesnakeroot				S1
<i>Ageratina altissima</i>	White Snakeroot				S1
<i>Andersonglossum boreale</i>	Northern Wild Comfrey				S1
<i>Draba glabella</i>	Rock Whitlow-Grass				S1
<i>Lobelia spicata</i>	Pale-Spiked Lobelia				S1
<i>Stellaria crassifolia</i>	Fleshy Stitchwort				S1
<i>Hudsonia tomentosa</i>	Woolly Beach-heath				S1
<i>Elatine americana</i>	American Waterwort				S1
<i>Astragalus robbinsii</i> var. <i>minor</i>	Robbins' Milkvetch				S1
<i>Desmodium canadense</i>	Canada Tick-trefoil				S1
<i>Hylodesmum glutinosum</i>	Large Tick-trefoil				S1
<i>Ribes americanum</i>	Wild Black Currant				S1
<i>Fraxinus pennsylvanica</i>	Red Ash				S1
<i>Polygonum achoreum</i>	Leathery Knotweed				S1
<i>Persicaria careyi</i>	Carey's Smartweed				S1
<i>Montia fontana</i>	Water Blinks				S1
<i>Anemone parviflora</i>	Small-flowered Anemone				S1
<i>Clematis occidentalis</i>	Purple Clematis				S1
<i>Ranunculus pensylvanicus</i>	Pennsylvania Buttercup				S1
<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry				S1
<i>Salix myrtillifolia</i>	Blueberry Willow				S1
<i>Salix serissima</i>	Autumn Willow				S1
<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove				S1
<i>Dirca palustris</i>	Eastern Leatherwood				S1
<i>Boehmeria cylindrica</i>	Small-spike False-nettle				S1

Table 1. SOCI identified within 100 km of the Project Area

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Pilea pumila</i>	Dwarf Clearweed				S1
<i>Carex chordorrhiza</i>	Creeping Sedge				S1
<i>Carex garberi</i>	Garber's Sedge				S1
<i>Carex granularis</i>	Limestone Meadow Sedge				S1
<i>Carex gynocrates</i>	Northern Bog Sedge				S1
<i>Carex haydenii</i>	Hayden's Sedge				S1
<i>Carex pellita</i>	Woolly Sedge				S1
<i>Carex laxiflora</i>	Loose-Flowered Sedge				S1
<i>Carex ormostachya</i>	Necklace Spike Sedge				S1
<i>Carex plantaginea</i>	Plantain-Leaved Sedge				S1
<i>Carex prairea</i>	Prairie Sedge				S1
<i>Carex tenuiflora</i>	Sparse-Flowered Sedge				S1
<i>Carex tincta</i>	Tinged Sedge				S1
<i>Carex viridula</i> var. <i>saxillitoralis</i>	Greenish Sedge				S1
<i>Cyperus lupulinus</i> ssp. <i>macilentus</i>	Hop Flatsedge				S1
<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1
<i>Blysmopsis rufa</i>	Red Bulrush				S1
<i>Schoenoplectus torreyi</i>	Torrey's Bulrush				S1
<i>Iris prismatica</i>	Slender Blue Flag				S1
<i>Juncus secundus</i>	Secund Rush				S1
<i>Juncus vaseyi</i>	Vasey Rush				S1
<i>Allium tricoccum</i>	Wild Leek				S1
<i>Trillium grandiflorum</i>	White Trillium				S1
<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	North American White Adder's-mouth				S1
<i>Bromus latiglumis</i>	Broad-Glumed Brome				S1
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	Slim-stemmed Reed Grass				S1
<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S1
<i>Elymus hystrix</i>	Spreading Wild Rye				S1
<i>Grapphorum melicoides</i>	Purple False Oats				S1
<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1
<i>Equisetum palustre</i>	Marsh Horsetail				S1
<i>Selaginella rupestris</i>	Rock Spikemoss				S1
<i>Solidago hispida</i>	Hairy Goldenrod				S1?
<i>Suaeda rolandii</i>	Roland's Sea-Blite				S1?
<i>Carex pennsylvanica</i>	Pennsylvania Sedge				S1?
<i>Bolboschoenus robustus</i>	Sturdy Bulrush				S1?
<i>Dichanthelium lindheimeri</i>	Lindheimer's Panicgrass				S1?
<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S1S2
<i>Arabis pycnocarpa</i>	Cream-flowered Rockcress				S1S2
<i>Cardamine maxima</i>	Large Toothwort				S1S2
<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Conopholis americana</i>	American Cancer-root				S1S2
<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2
<i>Hepatica americana</i>	Round-lobed Hepatica				S1S2
<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop				S1S2
<i>Carex livida</i>	Livid Sedge				S1S2
<i>Juncus greenei</i>	Greene's Rush				S1S2
<i>Juncus alpinoarticulatus</i> ssp. <i>americanus</i>	Northern Green Rush				S1S2
<i>Platanthera huronensis</i>	Fragrant Green Orchid				S1S2
<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S1S2
<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S1S2
<i>Festuca subverticillata</i>	Nodding Fescue				S1S2
<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S1S2
<i>Woodsia alpina</i>	Alpine Cliff Fern				S1S2
<i>Selaginella selaginoides</i>	Low Spikemoss				S1S2
<i>Carex vacillans</i>	Estuarine Sedge				S1S3
<i>Conioselinum chinense</i>	Chinese Hemlock-parsley				S2
<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely				S2
<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2
<i>Lactuca hirsuta</i>	Hairy Lettuce				S2
<i>Solidago multiradiata</i>	Multi-rayed Goldenrod				S2
<i>Symphyotrichum undulatum</i>	Wavy-leaved Aster				S2
<i>Symphyotrichum ciliolatum</i>	Fringed Blue Aster				S2
<i>Impatiens pallida</i>	Pale Jewelweed				S2
<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2
<i>Boechera stricta</i>	Drummond's Rockcress				S2
<i>Cardamine parviflora</i>	Small-flowered Bittercress				S2
<i>Draba arabisans</i>	Rock Whitlow-Grass				S2
<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2
<i>Stellaria longifolia</i>	Long-leaved Starwort				S2
<i>Oxybasis rubra</i>	Red Goosefoot				S2
<i>Hudsonia ericoides</i>	Pinebarren Golden Heather				S2
<i>Hypericum majus</i>	Large St John's-wort				S2
<i>Crassula aquatica</i>	Water Pygmyweed				S2
<i>Oxytropis campestris</i>	Field Locoweed				S2
<i>Oxytropis campestris</i> var. <i>johannensis</i>	Field Locoweed				S2
<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2
<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S2
<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2
<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S2
<i>Rumex triangulivalvis</i>	Triangular-valve Dock				S2

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Primula mistassinica</i>	Mistassini Primrose				S2
<i>Anemonastrum canadense</i>	Canada Anemone				S2
<i>Anemone quinquefolia</i>	Wood Anemone				S2
<i>Anemone virginiana</i>	Virginia Anemone				S2
<i>Anemone virginiana</i> var. <i>virginiana</i>	Virginia Anemone				S2
<i>Caltha palustris</i>	Yellow Marsh Marigold				S2
<i>Galium boreale</i>	Northern Bedstraw				S2
<i>Galium labradoricum</i>	Labrador Bedstraw				S2
<i>Salix pedicellaris</i>	Bog Willow				S2
<i>Salix sericea</i>	Silky Willow				S2
<i>Comandra umbellata</i>	Bastard's Toadflax				S2
<i>Saxifraga paniculata</i> ssp. <i>laestadii</i>	Laestadius' Saxifrage				S2
<i>Tiarella cordifolia</i>	Heart-leaved Foamflower				S2
<i>Viola nephrophylla</i>	Northern Bog Violet				S2
<i>Carex bebbii</i>	Bebb's Sedge				S2
<i>Carex capillaris</i>	Hairlike Sedge				S2
<i>Carex castanea</i>	Chestnut Sedge				S2
<i>Carex comosa</i>	Bearded Sedge				S2
<i>Carex hystericina</i>	Porcupine Sedge				S2
<i>Carex tenera</i>	Tender Sedge				S2
<i>Carex tuckermanii</i>	Tuckerman's Sedge				S2
<i>Carex atratiformis</i>	Scabrous Black Sedge				S2
<i>Vallisneria americana</i>	Wild Celery				S2
<i>Juncus stygius</i> ssp. <i>americanus</i>	Moor Rush				S2
<i>Allium schoenoprasum</i>	Wild Chives				S2
<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives				S2
<i>Lilium canadense</i>	Canada Lily				S2
<i>Najas gracillima</i>	Thread-Like Naiad				S2
<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2
<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2
<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2
<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2
<i>Platanthera flava</i> var. <i>flava</i>	Southern Rein Orchid				S2
<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2
<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2
<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2
<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass				S2
<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass				S2
<i>Piptatheropsis canadensis</i>	Canada Ricegrass				S2

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Piptatheropsis pungens</i>	Slender Ricegrass				S2
<i>Potamogeton friesii</i>	Fries' Pondweed				S2
<i>Potamogeton richardsonii</i>	Richardson's Pondweed				S2
<i>Dryopteris fragrans</i>	Fragrant Wood Fern				S2
<i>Woodsia glabella</i>	Smooth Cliff Fern				S2
<i>Symphotrichum boreale</i>	Boreal Aster				S2?
<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?
<i>Epilobium coloratum</i>	Purple-veined Willowherb				S2?
<i>Rumex persicarioides</i>	Peach-leaved Dock				S2?
<i>Crataegus submollis</i>	Quebec Hawthorn				S2?
<i>Carex peckii</i>	White-Tinged Sedge				S2?
<i>Eleocharis ovata</i>	Ovate Spikerush				S2?
<i>Scirpus pedicellatus</i>	Stalked Bulrush				S2?
<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S2S3
<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S2S3
<i>Iva frutescens</i>	Big-leaved Marsh-elder				S2S3
<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S2S3
<i>Betula michauxii</i>	Michaux's Dwarf Birch				S2S3
<i>Sagina nodosa ssp. borealis</i>	Knotted Pearlwort				S2S3
<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S2S3
<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3
<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S2S3
<i>Shepherdia canadensis</i>	Soapberry				S2S3
<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3
<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3
<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3
<i>Polygonum aviculare ssp. buxiforme</i>	Box Knotweed				S2S3
<i>Polygonum oxyspermum ssp. raii</i>	Ray's Knotweed				S2S3
<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3
<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3
<i>Galium aparine</i>	Common Bedstraw				S2S3
<i>Galium obtusum</i>	Blunt-leaved Bedstraw				S2S3
<i>Salix pellita</i>	Satiny Willow				S2S3
<i>Carex adusta</i>	Lesser Brown Sedge				S2S3
<i>Carex hirtifolia</i>	Pubescent Sedge				S2S3
<i>Carex houghtoniana</i>	Houghton's Sedge				S2S3
<i>Eleocharis flavescens var. olivacea</i>	Bright-green Spikerush				S2S3
<i>Eriophorum gracile</i>	Slender Cottongrass				S2S3
<i>Coeloglossum viride</i>	Long-bracted Frog Orchid				S2S3
<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper				S2S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Poa glauca</i>	Glaucous Blue Grass				S2S3
<i>Stuckenia filiformis</i>	Thread-leaved Pondweed				S2S3
<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3
<i>Botrychium simplex</i>	Least Moonwort				S2S3
<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3
<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3
<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane				S3
<i>Hieracium paniculatum</i>	Panicled Hawkweed				S3
<i>Bidens beckii</i>	Water Beggarticks				S3
<i>Packera paupercola</i> var. <i>paupercola</i>	Balsam Groundsel				S3
<i>Packera paupercola</i>	Balsam Groundsel				S3
<i>Betula pumila</i> var. <i>pumila</i>	Bog Birch				S3
<i>Betula pumila</i>	Bog Birch				S3
<i>Campanula aparinoides</i>	Marsh Bellflower				S3
<i>Mononeuria groenlandica</i>	Greenland Stitchwort				S3
<i>Viburnum edule</i>	Squashberry				S3
<i>Empetrum eamesii</i>	Pink Crowberry				S3
<i>Vaccinium boreale</i>	Northern Blueberry				S3
<i>Vaccinium cespitosum</i>	dwarf bilberry				S3
<i>Bartonia virginica</i>	Yellow Bartonia				S3
<i>Geranium bicknellii</i>	Bicknell's Crane's-bill				S3
<i>Proserpinaca palustris</i>	Marsh Mermaidweed				S3
<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed				S3
<i>Teucrium canadense</i>	Canada Germander				S3
<i>Epilobium strictum</i>	Downy Willowherb				S3
<i>Polygala sanguinea</i>	Blood Milkwort				S3
<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3
<i>Fallopia scandens</i>	Climbing False Buckwheat				S3
<i>Plantago rugelii</i>	Rugel's Plantain				S3
<i>Primula laurentiana</i>	Laurentian Primrose				S3
<i>Samolus parviflorus</i>	Seaside Brookweed				S3
<i>Pyrola asarifolia</i>	Pink Pyrola				S3
<i>Pyrola minor</i>	Lesser Pyrola				S3
<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup				S3
<i>Endotropis alnifolia</i>	alder-leaved buckthorn				S3
<i>Agrimonia gryposepala</i>	Hooked Agrimony				S3
<i>Amelanchier spicata</i>	Running Serviceberry				S3
<i>Geocaulon lividum</i>	Northern Comandra				S3
<i>Limosella australis</i>	Southern Mudwort				S3
<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3
<i>Laportea canadensis</i>	Canada Wood Nettle				S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Verbena hastata</i>	Blue Vervain				S3
<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3
<i>Carex eburnea</i>	Bristle-leaved Sedge				S3
<i>Carex lupulina</i>	Hop Sedge				S3
<i>Carex rosea</i>	Rosy Sedge				S3
<i>Carex tribuloides</i>	Blunt Broom Sedge				S3
<i>Carex wiegandii</i>	Wiegand's Sedge				S3
<i>Carex foenea</i>	Fernald's Hay Sedge				S3
<i>Eleocharis nitida</i>	Quill Spikerush				S3
<i>Elodea canadensis</i>	Canada Waterweed				S3
<i>Juncus subcaudatus</i>	Woods-Rush				S3
<i>Juncus dudleyi</i>	Dudley's Rush				S3
<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3
<i>Neottia bifolia</i>	Southern Twayblade				S3
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3
<i>Platanthera hookeri</i>	Hooker's Orchid				S3
<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3
<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3
<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3
<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass				S3
<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed				S3
<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3
<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3
<i>Sparganium natans</i>	Small Burreed				S3
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort				S3
<i>Asplenium viride</i>	Green Spleenwort				S3
<i>Equisetum pratense</i>	Meadow Horsetail				S3
<i>Equisetum variegatum</i>	Variegated Horsetail				S3
<i>Isoetes tuckermanii</i> ssp. <i>acadiensis</i>	Acadian Quillwort				S3
<i>Diphasiastrum sitchense</i>	Sitka Ground-cedar				S3
<i>Huperzia appressa</i>	Mountain Firmoss				S3
<i>Sceptridium dissectum</i>	Dissected Moonwort				S3
<i>Polypodium appalachianum</i>	Appalachian Polypody				S3
<i>Bidens vulgata</i>	Tall Beggarticks				S3?
<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed				S3?
<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?
<i>Atriplex glabriuscula</i> var. <i>franktonii</i>	Frankton's Saltbush				S3S4
<i>Suaeda calceoliformis</i>	Horned Sea-blite				S3S4
<i>Vaccinium corymbosum</i>	Highbush Blueberry				S3S4
<i>Myriophyllum sibiricum</i>	Siberian Water Milfoil				S3S4
<i>Nuphar microphylla</i>	Small Yellow Pond-lily				S3S4

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Sanguinaria canadensis</i>	Bloodroot				S3S4
<i>Polygonum fowleri</i>	Fowler's Knotweed				S3S4
<i>Rumex fueginus</i>	Tierra del Fuego Dock				S3S4
<i>Crataegus succulenta</i>	Fleshy Hawthorn				S3S4
<i>Fragaria vesca ssp. americana</i>	Woodland Strawberry				S3S4
<i>Fragaria vesca</i>	Woodland Strawberry				S3S4
<i>Salix petiolaris</i>	Meadow Willow				S3S4
<i>Agalinis neoscotica</i>	Nova Scotia Agalinis				S3S4
<i>Viola sagittata var. ovata</i>	Arrow-Leaved Violet				S3S4
<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S3S4
<i>Carex argyrantha</i>	Silvery-flowered Sedge				S3S4
<i>Eriophorum russeolum</i>	Russet Cottongrass				S3S4
<i>Triglochin gaspensis</i>	Gasp Arrowgrass				S3S4
<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4
<i>Luzula parviflora</i>	Small-flowered Woodrush				S3S4
<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4
<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4
<i>Trisetum spicatum</i>	Narrow False Oats				S3S4
<i>Cystopteris bulbifera</i>	Bulblet Bladder Fern				S3S4
<i>Equisetum hyemale ssp. affine</i>	Common Scouring-rush				S3S4
<i>Equisetum scirpoides</i>	Dwarf Scouring-Rush				S3S4
<i>Diphasiastrum complanatum</i>	Northern Ground-cedar				S3S4
<i>Schizaea pusilla</i>	Little Curlygrass Fern				S3S4
<i>Viola canadensis</i>	Canada Violet				SH
AVIFAUNA					
<i>Charadrius melodus melodus</i>	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B
<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B
<i>Calidris canutus rufa</i>	Red Knot rufa ssp	Endangered	Endangered	Endangered	S2M
<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B
<i>Catharus bicknelli</i>	Bicknell's Thrush	Threatened	Threatened	Endangered	S1S2B
<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S1S2M
<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2B,S1M
<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2S3B
<i>Hirundo rustica</i>	Barn Swallow	Threatened	Threatened	Endangered	S2S3B
<i>Cardellina canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B
<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened	Threatened	Vulnerable	S3S4B
<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB
<i>Ixobrychus exilis</i>	Least Bittern	Threatened	Threatened		SUB
<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB
<i>Bucephala islandica (Eastern pop.)</i>	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern		S1N

Table 1. SOCI identified within 100 km of the Project Area

Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Asio flammeus</i>	Short-eared Owl	Special Concern	Special Concern		S1S2B
<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B
<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Threatened	Threatened	S2B
<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S2B
<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern pop.	Special Concern	Special Concern	Endangered	S2N
<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M
<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3S4B,S3N
<i>Podiceps auritus</i>	Horned Grebe	Special Concern	Special Concern		S4N
<i>Ammodramus savannarum pratensis</i>	Grasshopper Sparrow, pratensis subspecies	Special Concern	Special Concern		
<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk			S1?B
<i>Fulica americana</i>	American Coot	Not At Risk			S1B
<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B
<i>Falco peregrinus pop. 1</i>	Peregrine Falcon - anatum/tundrius	Not At Risk	Special Concern	Vulnerable	S1B,SNAM
<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B
<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B
<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B
<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N
<i>Accipiter gentilis</i>	Northern Goshawk	Not At Risk			S3S4
<i>Circus hudsonius</i>	Northern Harrier	Not At Risk			S3S4B
<i>Ammospiza nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B
<i>Picoides dorsalis</i>	American Three-toed Woodpecker				S1?
<i>Passerina cyanea</i>	Indigo Bunting				S1?B
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron				S1B
<i>Anas acuta</i>	Northern Pintail				S1B
<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B
<i>Gallinula galeata</i>	Common Gallinule				S1B
<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B
<i>Cistothorus palustris</i>	Marsh Wren				S1B
<i>Mimus polyglottos</i>	Northern Mockingbird				S1B
<i>Toxostoma rufum</i>	Brown Thrasher				S1B
<i>Vireo gilvus</i>	Warbling Vireo				S1B
<i>Setophaga pinus</i>	Pine Warbler				S1B
<i>Calidris minutilla</i>	Least Sandpiper				S1B,S3M
<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B,S3S4M
<i>Pluvialis dominica</i>	American Golden-Plover				S1S2M

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B
<i>Spatula clypeata</i>	Northern Shoveler				S2B
<i>Mareca strepera</i>	Gadwall				S2B
<i>Empidonax traillii</i>	Willow Flycatcher				S2B
<i>Setophaga tigrina</i>	Cape May Warbler				S2B
<i>Piranga olivacea</i>	Scarlet Tanager				S2B
<i>Pooecetes gramineus</i>	Vesper Sparrow				S2B
<i>Molothrus ater</i>	Brown-headed Cowbird				S2B
<i>Bucephala clangula</i>	Common Goldeneye				S2B,S5N
<i>Branta bernicla</i>	Brant				S2M
<i>Phalacrocorax carbo</i>	Great Cormorant				S2S3
<i>Asio otus</i>	Long-eared Owl				S2S3
<i>Spinus pinus</i>	Pine Siskin				S2S3
<i>Cathartes aura</i>	Turkey Vulture				S2S3B
<i>Rallus limicola</i>	Virginia Rail				S2S3B
<i>Tringa semipalmata</i>	Willet				S2S3B
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S2S3B
<i>Icterus galbula</i>	Baltimore Oriole				S2S3B
<i>Pinicola enucleator</i>	Pine Grosbeak				S2S3B,S5N
<i>Numenius phaeopus hudsonicus</i>	Hudsonian Whimbrel				S2S3M
<i>Calidris melanotos</i>	Pectoral Sandpiper				S2S3M
<i>Phalaropus fulicarius</i>	Red Phalarope				S2S3M
<i>Perisoreus canadensis</i>	Canada Jay				S3
<i>Poecile hudsonicus</i>	Boreal Chickadee				S3
<i>Sitta canadensis</i>	Red-breasted Nuthatch				S3
<i>Calidris maritima</i>	Purple Sandpiper				S3?N
<i>Calcarius lapponicus</i>	Lapland Longspur				S3?N
<i>Falco sparverius</i>	American Kestrel				S3B
<i>Charadrius vociferus</i>	Killdeer				S3B
<i>Gallinago delicata</i>	Wilson's Snipe				S3B
<i>Sterna paradisaea</i>	Arctic Tern				S3B
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B
<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B
<i>Dumetella carolinensis</i>	Gray Catbird				S3B
<i>Cardellina pusilla</i>	Wilson's Warbler				S3B
<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S3S4M
<i>Oceanodroma leucorhoa</i>	Leach's Storm-Petrel				S3B,S5M
<i>Rissa tridactyla</i>	Black-legged Kittiwake				S3B,S5N
<i>Fratercula arctica</i>	Atlantic Puffin				S3B,S5N
<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M
<i>Tringa flavipes</i>	Lesser Yellowlegs				S3M

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Arenaria interpres</i>	Ruddy Turnstone				S3M
<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M
<i>Calidris fuscicollis</i>	White-rumped Sandpiper				S3M
<i>Limnodromus griseus</i>	Short-billed Dowitcher				S3M
<i>Calidris alba</i>	Sanderling				S3M,S2N
<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N
<i>Somateria mollissima</i>	Common Eider				S3S4
<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4
<i>Loxia curvirostra</i>	Red Crossbill				S3S4
<i>Sorex palustris</i>	American Water Shrew				S3S4
<i>Botaurus lentiginosus</i>	American Bittern				S3S4B
<i>Spatula discors</i>	Blue-winged Teal				S3S4B
<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B
<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B
<i>Regulus calendula</i>	Ruby-crowned Kinglet				S3S4B
<i>Catharus fuscescens</i>	Veery				S3S4B
<i>Catharus ustulatus</i>	Swainson's Thrush				S3S4B
<i>Oreothlypis peregrina</i>	Tennessee Warbler				S3S4B
<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B
<i>Setophaga striata</i>	Blackpoll Warbler				S3S4B
<i>Passerella iliaca</i>	Fox Sparrow				S3S4B
<i>Mergus serrator</i>	Red-breasted Merganser				S3S4B,S5N
<i>Bucephala albeola</i>	Bufflehead				S3S4N
<i>Lanius borealis</i>	Northern Shrike				S3S4N
<i>Leucophaeus atricilla</i>	Laughing Gull				SHB
<i>Progne subis</i>	Purple Martin				SHB
<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N
<i>Morus bassanus</i>	Northern Gannet				SHB,S5M
<i>Aythya americana</i>	Redhead				SHB,SNAM
INVERTEBRATE					
<i>Gomphus ventricosus</i>	Skillet Clubtail	Endangered	Endangered		S1
<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2B
<i>Danaus plexippus plexippus</i>	Monarch	Endangered	Special Concern		S2B
<i>Bombus terricola</i>	Yellow-banded Bumblebee	Special Concern	Special Concern	Vulnerable	S3
<i>Cicindela formosa</i>	Big Sand Tiger Beetle				S1
<i>Satyrium acadica</i>	Acadian Hairstreak				S1
<i>Erora laeta</i>	Early Hairstreak				S1
<i>Somatochlora brevicincta</i>	Quebec Emerald				S1
<i>Strophitus undulatus</i>	Creeper				S1
<i>Chlosyne nycteis</i>	Silvery Checkerspot				S1?
<i>Polygonia comma</i>	Eastern Comma				S1?

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Polygonia satyrus</i>	Satyr Comma				S1?
<i>Strymon melinus</i>	Grey Hairstreak				S1S2
<i>Nymphalis l-album</i>	Compton Tortoiseshell				S1S2
<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S1S2
<i>Coenagrion resolutum</i>	Taiga Bluet				S1S2
<i>Stylurus scudderi</i>	Zebra Clubtail				S1S2
<i>Lycaena hyllus</i>	Bronze Copper				S2
<i>Lycaena dospassosi</i>	Salt Marsh Copper				S2
<i>Satyrium calanus</i>	Banded Hairstreak				S2
<i>Boloria chariclea</i>	Arctic Fritillary				S2
<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2
<i>Aglais milberti milberti</i>	Milbert's Tortoise Shell				S2
<i>Epithea princeps</i>	Prince Baskettail				S2
<i>Somatochlora williamsoni</i>	Williamson's Emerald				S2
<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S2
<i>Enallagma signatum</i>	Orange Bluet				S2
<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2
<i>Pantala hymenaea</i>	Spot-Winged Glider				S2?B
<i>Thorybes pylades</i>	Northern Cloudywing				S2S3
<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S2S3
<i>Satyrium liparops</i>	Striped Hairstreak				S2S3
<i>Euphydryas phaeton</i>	Baltimore Checkerspot				S2S3
<i>Gomphus descriptus</i>	Harpoon Clubtail				S2S3
<i>Ophiogomphus aspersus</i>	Brook Snaketail				S2S3
<i>Ophiogomphus mainensis</i>	Maine Snaketail				S2S3
<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail				S2S3
<i>Somatochlora forcipata</i>	Forcipate Emerald				S2S3
<i>Somatochlora franklini</i>	Delicate Emerald				S2S3
<i>Alasmidonta undulata</i>	Triangle Floater				S2S3
<i>Astyleiopus variegatus</i>	A Longhorned Beetle				S3
<i>Carabus maeander</i>	a Ground Beetle				S3
<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle				S3
<i>Naemia seriata</i>	a Ladybird beetle				S3
<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle				S3
<i>Myzia pullata</i>	Streaked Lady Beetle				S3
<i>Trachysida aspera</i>	a Longhorned Beetle				S3
<i>Dicerca tenebrosa</i>	Dark Jewel Beetle				S3
<i>Astylopsis sexguttata</i>	A Longhorned Beetle				S3
<i>Callophrys henrici</i>	Henry's Elfin				S3
<i>Callophrys lanoraieensis</i>	Bog Elfin				S3
<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3
<i>Polygonia faunus</i>	Green Comma				S3
<i>Megisto cymela</i>	Little Wood-satyr				S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Oeneis jutta</i>	Jutta Arctic				S3
<i>Aeshna clepsydra</i>	Mottled Darner				S3
<i>Aeshna constricta</i>	Lance-Tipped Darner				S3
<i>Boyeria grafiana</i>	Ocellated Darner				S3
<i>Gomphaeschna furcillata</i>	Harlequin Darner				S3
<i>Somatochlora tenebrosa</i>	Clamp-Tipped Emerald				S3
<i>Nannothemis bella</i>	Elfin Skimmer				S3
<i>Sympetrum danae</i>	Black Meadowhawk				S3
<i>Enallagma vernale</i>	Vernal Bluet				S3
<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3
<i>Cupido comyntas</i>	Eastern Tailed Blue				S3?
<i>Polygonia interrogationis</i>	Question Mark				S3B
<i>Erynnis juvenalis</i>	Juvenal's Duskywing				S3S4
<i>Amblyscirtes vialis</i>	Common Roadside-Skipper				S3S4
<i>Polygonia progne</i>	Grey Comma				S3S4
<i>Lanthus parvulus</i>	Northern Pygmy Clubtail				S3S4
HERPTOFAUNA					
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2
<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3
<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern			S4S5
<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3
NON-VASCULAR PLANT					
<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1
<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1S2
<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1
<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S1S2
<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S2S3
<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3
<i>Sclerophora peronella</i> (Atlantic pop.)	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S1?
<i>Pectenaria plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3
<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S1S2
<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S1S2
<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3
<i>Aloina brevirostris</i>	Short-Beaked Rigid Screw Moss				S1
<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1
<i>Usnea perplexans</i>	Powdered Beard Lichen				S1
<i>Leptogium dactylinum</i>	Brown-buttoned Jellyskin Lichen				S1
<i>Cladonia brevis</i>	Short Peg Lichen				S1

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Collema cristatum</i>	Fingered Tarpaper Lichen				S1
<i>Ephebe perspinulosa</i>	Thread Lichen				S1
<i>Fuscopannaria praetermissa</i>	Moss Shingles Lichen				S1
<i>Leptogium schraderi</i>	Schrader's Jellyskin Lichen				S1
<i>Collema fuscovirens</i>	Crumpled Rock Tarpaper Lichen				S1
<i>Peltigera lepidophora</i>	Scaly Pelt Lichen				S1
<i>Calypogeia neogaea</i>	Common Pouchwort				S1?
<i>Moerckia hibernica</i>	Irish Ruffwort				S1?
<i>Aloina rigida</i>	Aloe-Like Rigid Screw Moss				S1?
<i>Brachythecium erythrorrhizon</i>	Taiga Ragged Moss				S1?
<i>Bryum muehlenbeckii</i>	Muehlenbeck's Bryum Moss				S1?
<i>Campylostelium saxicola</i>	a Moss				S1?
<i>Tortula obtusifolia</i>	a Moss				S1?
<i>Didymodon tophaceus</i>	Olive Beard Moss				S1?
<i>Paludella squarrosa</i>	Tufted Fen Moss				S1?
<i>Physcomitrium immersum</i>	a Moss				S1?
<i>Schistostega pennata</i>	Luminous Moss				S1?
<i>Timmia norvegica</i>	a moss				S1?
<i>Trichodon cylindricus</i>	Cylindric Hairy-teeth Moss				S1?
<i>Collema crispum</i>	Crinkled Pulp Lichen				S1?
<i>Polychidium muscicola</i>	Eyed Mossthorns Woollybear Lichen				S1?
<i>Aulacomnium heterostichum</i>	One-sided Groove Moss				S1S2
<i>Brachythecium turgidum</i>	Thick Ragged Moss				S1S2
<i>Dicranoweisia crispula</i>	Mountain Thatch Moss				S1S2
<i>Didymodon rigidulus</i>	Rigid Screw Moss				S1S2
<i>Didymodon ferrugineus</i>	a moss				S1S2
<i>Hygrohypnum montanum</i>	a Moss				S1S2
<i>Hypnum pratense</i>	Meadow Plait Moss				S1S2
<i>Mnium thomsonii</i>	Thomson's Leafy Moss				S1S2
<i>Tortula acaulon</i>	Cuspidate Earth Moss				S1S2
<i>Plagiothecium latebricola</i>	Alder Silk Moss				S1S2
<i>Platydictya confervoides</i>	a Moss				S1S2
<i>Seligeria calcarea</i>	Chalk Brittle Moss				S1S2
<i>Sematophyllum demissum</i>	a Moss				S1S2
<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss				S1S2
<i>Tetradontium brownianum</i>	Little Georgia				S1S2
<i>Timmia megapolitana</i>	Metropolitan Timmia Moss				S1S2
<i>Tortula mucronifolia</i>	Mucronate Screw Moss				S1S2
<i>Bryohaplocladium microphyllum</i>	Tiny-leaved Haplocladium Moss				S1S2
<i>Collema bachmanianum</i>	Bachman's Tarpaper Lichen				S1S2

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Catapyrenium squamulosum</i>	Limy Soil Stipplescale Lichen				S1S2
<i>Cladonia sulphurina</i>	Greater Sulphur-cup Lichen				S1S2
<i>Sticta limbata</i>	Powdered Moon Lichen				S1S2
<i>Candelaria concolor</i>	Elfin Candleflame Lichen				S1S2
<i>Usnea chaetophora</i>	Articulated Beard Lichen				S1S3
<i>Stereocaulon grande</i>	Grand Foam Lichen				S1S3
<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen				S1S3
<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen				S2
<i>Anaptychia crinalis</i>	Hanging Fringed Lichen				S2
<i>Riccardia multifida</i>	Delicate Germanderwort				S2?
<i>Anacamptodon splachnoides</i>	a Moss				S2?
<i>Anomodon viticulosus</i>	a Moss				S2?
<i>Weissia muhlenbergiana</i>	a Moss				S2?
<i>Atrichum angustatum</i>	Lesser Smoothcap Moss				S2?
<i>Bryum algovicum</i>	a Moss				S2?
<i>Campylium polygamum</i>	a Moss				S2?
<i>Campylium radicale</i>	Long-stalked Fine Wet Moss				S2?
<i>Dicranum condensatum</i>	Condensed Broom Moss				S2?
<i>Ditrichum rhynchostegium</i>	a Moss				S2?
<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss				S2?
<i>Hygrohypnum bestii</i>	Best's Brook Moss				S2?
<i>Orthotrichum anomalum</i>	Anomalous Bristle Moss				S2?
<i>Philonotis marchica</i>	a Moss				S2?
<i>Physcomitrium collenchymatum</i>	a Moss				S2?
<i>Platydictya jungermannioides</i>	False Willow Moss				S2?
<i>Pohlia sphagnicola</i>	a moss				S2?
<i>Racomitrium affine</i>	a Moss				S2?
<i>Rhytidium rugosum</i>	Wrinkle-leaved Moss				S2?
<i>Saelania glaucescens</i>	Blue Dew Moss				S2?
<i>Seligeria donniana</i>	Donian Beardless Moss				S2?
<i>Sematophyllum marylandicum</i>	a Moss				S2?
<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S2?
<i>Tortella fragilis</i>	Fragile Twisted Moss				S2?
<i>Anomobryum filiforme</i>	a moss				S2?
<i>Plagiomnium rostratum</i>	Long-beaked Leafy Moss				S2?
<i>Pseudotaxiphyllum distichaceum</i>	a Moss				S2?
<i>Cyrtomnium hymenophylloides</i>	Short-pointed Lantern Moss				S2?
<i>Platylomella lescurii</i>	a Moss				S2?
<i>Phylliscum demangeonii</i>	Black Rock-wafer Lichen				S2?

Table 1. SOCI identified within 100 km of the Project Area

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Leptogium teretiusculum</i>	Beaded Jellyskin Lichen				S2?
<i>Rostania occultata</i>	Crusted Tarpaper Lichen				S2?
<i>Placynthium flabelliforme</i>	Scaly Ink Lichen				S2?
<i>Peltigera collina</i>	Tree Pelt Lichen				S2?
<i>Ephemerum serratum</i>	a Moss				S2S3
<i>Eurhynchium hians</i>	Light Beaked Moss				S2S3
<i>Platydictya subtilis</i>	Bark Willow Moss				S2S3
<i>Tortula truncata</i>	a Moss				S2S3
<i>Limprichtia revolvens</i>	a Moss				S2S3
<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen				S2S3
<i>Solorina saccata</i>	Woodland Owl Lichen				S2S3
<i>Ahtiana aurescens</i>	Eastern Candlewax Lichen				S2S3
<i>Usnocetraria oakesiana</i>	Yellow Band Lichen				S2S3
<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup				S2S3
<i>Cladonia parasitica</i>	Fence-rail Lichen				S2S3
<i>Hypotrachyna catawbiensis</i>	Powder-tipped Antler Lichen				S2S3
<i>Leptogium milligranum</i>	Stretched Jellyskin Lichen				S2S3
<i>Leptogium tenuissimum</i>	Birdnest Jellyskin Lichen				S2S3
<i>Melanohalea septentrionalis</i>	Northern Camouflage Lichen				S2S3
<i>Myelochroa aurulenta</i>	Powdery Axil-bristle Lichen				S2S3
<i>Parmelia fertilis</i>	Fertile Shield Lichen				S2S3
<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen				S2S3
<i>Parmeliopsis ambigua</i>	Green Starburst Lichen				S2S3
<i>Racodium rupestre</i>	Rockhair Lichen				S2S3
<i>Umbilicaria polyphylla</i>	Petalled Rocktripe Lichen				S2S3
<i>Usnea cavernosa</i>	Pitted Beard Lichen				S2S3
<i>Usnea ceratina</i>	Warty Beard Lichen				S2S3
<i>Usnea mutabilis</i>	Bloody Beard Lichen				S2S3
<i>Usnea rubicunda</i>	Red Beard Lichen				S2S3
<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen				S2S3
<i>Physcia subtilis</i>	Slender Rosette Lichen				S2S3
<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen				S2S3
<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen				S2S3
<i>Cladonia phyllophora</i>	Felt Lichen				S2S3
<i>Hypotrachyna afrorevoluta</i>	Pustulate Revolute Loop Lichen				S2S3
<i>Usnea flamma</i>	Coastal Bushy Beard Lichen				S2S3
<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen				S3
<i>Collema tenax</i>	Soil Tarpaper Lichen				S3
<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3
<i>Stictia fuliginosa</i>	Peppered Moon Lichen				S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Leptogium subtile</i>	Appressed Jellyskin Lichen				S3
<i>Fuscopannaria ahlneri</i>	Corrugated Shingles Lichen				S3
<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3
<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen				S3
<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3
<i>Leptogium lichenoides</i>	Tattered Jellyskin Lichen				S3
<i>Nephroma bellum</i>	Naked Kidney Lichen				S3
<i>Placynthium nigrum</i>	Common Ink Lichen				S3
<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen				S3
<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen				S3
<i>Usnea hirta</i>	Bristly Beard Lichen				S3
<i>Fuscopannaria sorediata</i>	a Lichen				S3
<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3
<i>Usnea macaronesica</i>	Beard Lichen				S3
<i>Metzgeria conjugata</i>	Rock Veilwort				S3?
<i>Barbula convoluta</i>	Lesser Bird's-claw Beard Moss				S3?
<i>Calliergon giganteum</i>	Giant Spear Moss				S3?
<i>Drummondia prorepens</i>	a Moss				S3?
<i>Anomodon tristis</i>	a Moss				S3?
<i>Helodium blandowii</i>	Wetland-plume Moss				S3?
<i>Mnium stellare</i>	Star Leafy Moss				S3?
<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?
<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3?
<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?
<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4
<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4
<i>Dicranella varia</i>	a Moss				S3S4
<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4
<i>Encalypta procera</i>	Slender Extinguisher Moss				S3S4
<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4
<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4
<i>Thamnobryum alleghaniense</i>	a Moss				S3S4
<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4
<i>Hylocomiastrum pyrenaicum</i>	a Feather Moss				S3S4
<i>Hypogymnia vittata</i>	Slender Monk's Hood Lichen				S3S4
<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4
<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4
<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4
<i>Parmotrema chinense</i>	Powdered Ruffle Lichen				S3S4

Table 1. SOCI identified within 100 km of the Project Area

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Physconia detersa</i>	Bottlebrush Frost Lichen				S3S4
<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4
<i>Physcia caesia</i>	Blue-gray Rosette Lichen				S3S4
<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4
<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4
<i>Bryoria pikei</i>	Pike's Horsehair Lichen				S3S4
<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4
<i>Dermatocarpon luridum</i>	Brookside Stippleback Lichen				S3S4
<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4
FRESHWATER FISH AND MUSSELS					
<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered		S1
<i>Morone saxatilis pop. 2</i>	Striped Bass - Bay of Fundy pop.	Endangered			S1B
<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Threatened			S2
<i>Anguilla rostrata</i>	American Eel	Threatened			S2
<i>Morone saxatilis</i>	Striped Bass	E,SC			S2S3
<i>Salmo salar</i>	Atlantic Salmon	E,T,SC			S1
<i>Alosa pseudoharengus</i>	Alewife				S3
<i>Salvelinus fontinalis</i>	Brook Trout				S3
<i>Salvelinus namaycush</i>	Lake Trout				S3
<i>Menidia menidia</i>	Atlantic Silverside				S3
<i>Barnea truncata</i>	Atlantic Mud-piddock	Threatened	Threatened		S1
<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S1S2
<i>Leptodea ochracea</i>	Tidewater Mucket				S1
<i>Lampsilis radiata</i>	Eastern Lampmussel				S3S4
MARINE MAMMAL					
<i>Dermochelys coriacea (Atlantic pop.)</i>	Leatherback Sea Turtle - Atlantic pop.	Endangered	Endangered		S1S2N
<i>Balaenoptera physalus</i>	Fin Whale	Special Concern	Special Concern		S2S3
<i>Phocoena phocoena pop. 1</i>	Harbour Porpoise - Northwest Atlantic pop.	Special Concern			S4
<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3
<i>Megaptera novaeangliae</i>	Humpback Whale (NW Atlantic pop.)	Not At Risk			S3
<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4
MAMMAL					
<i>Lynx canadensis</i>	Canadian Lynx	Not At Risk		Endangered	S1
<i>Sorex dispar</i>	Long-tailed Shrew	Not At Risk			S2
<i>Glaucomys volans</i>	Southern Flying Squirrel	Not At Risk			S2S3
<i>Martes americana</i>	American Marten			Endangered	S1
<i>Alces americanus</i>	Moose			Endangered	S1
<i>Sorex maritimensis</i>	Maritime Shrew				S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3
<i>Pekania pennanti</i>	Fisher				S3

Table 2. Priority SOCI

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
INVERTEBRATES					
<i>Satyrium acadica</i>	Acadian Hairstreak				S1
<i>Botaurus lentiginosus</i>	American Bittern				S3S4B
<i>Falco sparverius</i>	American Kestrel				S3B
<i>Speyeria aphrodite</i>	Aphrodite Fritillary				S3
<i>Euphydryas phaeton</i>	Baltimore Checkerspot				S2S3
<i>Satyrium calanus</i>	Banded Hairstreak				S2
<i>Spatula discors</i>	Blue-winged Teal				S3S4B
<i>Lycaena hyllus</i>	Bronze Copper				S3
<i>Ophiogomphus aspersus</i>	Brook Snaketail				S2S3
<i>Amblyscirtes vialis</i>	Common Roadside-Skipper				S3S4
<i>Somatochlora franklini</i>	Delicate Emerald				S2S3
<i>Amphiagrion saucium</i>	Eastern Red Damsel				S3
<i>Cupido comyntas</i>	Eastern Tailed Blue				S3?
<i>Williamsonia fletcheri</i>	Ebony Boghaunter				S3
<i>Polygonia faunus</i>	Green Comma				S3
<i>Polygonia progne</i>	Grey Comma				S3S4
<i>Gomphus desertus</i>	Harpoon Clubtail				S2S3
<i>Oeneis jutta</i>	Jutta Arctic				S3
<i>Erynnis juvenalis</i>	Juvenal's Duskywing				S3S4
<i>Somatochlora kennedyi</i>	Kennedy's Emerald				S1S2
<i>Aeshna constricta</i>	Lance-Tipped Darner				S3
<i>Megisto cymela</i>	Little Wood-satyr				S3
<i>Aglais milberti</i>	Milbert's Tortoiseshell				S2
<i>Danaus plexippus</i>	Monarch	Endangered	Special Concern	Endangered	S2B
<i>Thorybes pylades</i>	Northern Cloudywing				S2S3
<i>Circus hudsonius</i>	Northern Harrier	Not at Risk			S3S4B
<i>Spatula clypeata</i>	Northern Shoveler				S2S3B, S2S3M
<i>Amblyscirtes hegon</i>	Pepper and Salt Skipper				S2S3
<i>Epitheca princeps</i>	Prince Baskettail				S2
<i>Polygonia interrogationis</i>	Question Mark				S3B
<i>Polygonia satyrus</i>	Satyr Comma				S1?
<i>Satyrium liparops</i>	Striped Hairstreak				S2S3
<i>Coenagrion resolutum</i>	Taiga Bluet				S1S2
<i>Enallagma vernale</i>	Vernal Bluet				S3
<i>Bombus terricola</i>	Yellow-banded Bumblebee	Special Concern	Special Concern	Vulnerable	S3
HERPTOFAUNA					
<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3
<i>Chrysemys picta picta</i>	Eastern Painted Turtle	Special Concern			S4S5
<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not at Risk			S3

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
FISH/FRESHWATER MUSSELS					
<i>Anguilla rostrata</i>	American Eel	Threatened			S2
<i>Salmo salar pop. 1</i>	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered		S1
<i>Alasmidonta varicosa</i>	Brook Floater	Special Concern	Special Concern	Threatened	S1S2
<i>Salvelinus fontinalis</i>	Brook Trout				S3
<i>Lampsilis radiata</i>	Eastern Lampmussel				S3S4
<i>Strophitus undulatus</i>	Creeper				S1
<i>Margaritifera margaritifera</i>	Eastern Pearlshell				S2
<i>Leptodea ochracea</i>	Tidewater Mucket				S1
MAMMALS					
<i>Alces americanus</i>	Moose			Endangered	S1
AVIFAUNA					
<i>Botaurus lentiginosus</i>	American Bittern				S3S4B
<i>Fulica americana</i>	American Coot	Not at Risk			S1B
<i>Falco sparverius</i>	American Kestrel				S3B
<i>Icterus galbula</i>	Baltimore Oriole				S3B,S3M
<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2S3B
<i>Hirundo rustica</i>	Barn Swallow	Threatened	Threatened	Endangered	S2S3B
<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B
<i>Chlidonias niger</i>	Black Tern	Not at Risk			S1B
<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4
<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B
<i>Setophaga striata</i>	Blackpoll Warbler				S3S4B
<i>Spatula discors</i>	Blue-winged Teal				S3S4B
<i>Dolichonyx oryzivorus</i>	Bobolink	Threatened	Threatened	Vulnerable	S3S4B
<i>Poecile hudsonicus</i>	Boreal Chickadee				S3
<i>Aegolius funereus</i>	Boreal Owl	Not at Risk			S2?B
<i>Toxostoma rufum</i>	Brown Thrasher				S1B
<i>Molothrus ater</i>	Brown-headed Cowbird				S2B
<i>Perisoreus canadensis</i>	Canada Jay				S3
<i>Cardellina canadensis</i>	Canada Warbler	Threatened	Threatened	Endangered	S3B
<i>Setophaga tigrina</i>	Cape May Warbler				S3B,S4S5M
<i>Chaetura pelagica</i>	Chimney Swift	Threatened	Threatened	Endangered	S2B,S1M
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B,S2S3M
<i>Gallinula galeata</i>	Common Gallinule				S1B
<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Threatened	Threatened	S2B
<i>Sialia sialis</i>	Eastern Bluebird	NAR			S3B

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B
<i>Antrostomus vociferus</i>	Eastern Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B
<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3S4B,S3N
<i>Mareca strepera</i>	Gadwall				S2B
<i>Dumetella carolinensis</i>	Gray Catbird				S3B
<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S3S4M
<i>Passerina cyanea</i>	Indigo Bunting				S1?B
<i>Charadrius vociferus</i>	Killdeer				S3B
<i>Ixobrychus exilis</i>	Least Bittern	Threatened	Threatened		SUB
<i>Tringa flavipes</i>	Lesser Yellowlegs				S3M
<i>Stellaria longifolia</i>	Long-leaved Starwort				S2
<i>Cistothorus palustris</i>	Marsh Wren				S2B,S2M
<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not at Risk			S3S4B
<i>Accipiter gentilis</i>	Northern Goshawk	Not at Risk			S3S4
<i>Circus hudsonius</i>	Northern Harrier	Not at Risk			S3S4B
<i>Anas acuta</i>	Northern Pintail				S3B,S5M
<i>Spatula clypeata</i>	Northern Shoveler				S2B
<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S2B
<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2?B
<i>Pinicola enucleator</i>	Pine Grosbeak				S2S3B,S5N
<i>Spinus pinus</i>	Pine Siskin				S2S3
<i>Setophaga pinus</i>	Pine Warbler				S1B
<i>Progne subis</i>	Purple Martin				SHB
<i>Loxia curvirostra</i>	Red Crossbill				S3S4
<i>Mergus serrator</i>	Red-breasted Merganser				S3S4B,S5N
<i>Sitta canadensis</i>	Red-breasted Nuthatch				S3
<i>Larus delawarensis</i>	Ring-billed Gull				S3S4B,S5M
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S2S3B
<i>Regulus calendula</i>	Ruby-crowned Kinglet				S3S4B
<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B,S2S3M
<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B
<i>Calidris alba</i>	Sanderling				S3M,S2N
<i>Antigone canadensis</i>	Sandhill Crane				S1B,S1M
<i>Piranga olivacea</i>	Scarlet Tanager				S2B
<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M
<i>Limnodromus griseus</i>	Short-billed Dowitcher				S3M
<i>Asio flammeus</i>	Short-eared Owl	Special Concern	Special Concern	Special Concern	S2B,S2M
<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B
<i>Catharus ustulatus</i>	Swainson's Thrush				S3S4B

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Oreothlypis peregrina</i>	Tennessee Warbler				S3S4B
<i>Cathartes aura</i>	Turkey Vulture				S3B,S3M
<i>Catharus fuscescens</i>	Veery				S3S4B
<i>Pooecetes gramineus</i>	Vesper Sparrow				S2B
<i>Rallus limicola</i>	Virginia Rail				S2S3B
<i>Phalaropus tricolor</i>	Wilson's Phalarope				S1B,S1M
<i>Gallinago delicata</i>	Wilson's Snipe				S3S4B,S5M
<i>Cardellina pusilla</i>	Wilson's Warbler				S3B
<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB
<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher				S3S4B
VASCULAR PLANTS					
<i>Isoetes tuckermanii</i> ssp. <i>acadiensis</i>	Acadian Quillwort				S3
<i>Endotropis alnifolia</i>	Alder-leaved Buckthorn				S3
<i>Spiranthes arcisepala</i>	Appalachian Ladies'-tresses				S1S3
<i>Carex comosa</i>	Bearded Sedge				S2
<i>Polygala sanguinea</i>	Blood Milkwort				S3
<i>Sanguinaria canadensis</i>	Bloodroot				S3S4
<i>Verbena hastata</i>	Blue Vervain				S3
<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed				S3
<i>Salix pedicellaris</i>	Bog Willow				S2
<i>Symphotrichum boreale</i>	Boreal Aster				S2?
<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed				S2S3
<i>Bromus latiglumis</i>	Broad-Glumed Brome				S1
<i>Lilium canadense</i>	Canada Lily				S2
<i>Piptatheropsis canadensis</i>	Canada Ricegrass				S2
<i>Elodea canadensis</i>	Canada Waterweed				S3
<i>Laportea canadensis</i>	Canada Wood Nettle				S3
<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop				S1S2
<i>Fallopia scandens</i>	Climbing False Buckwheat				S3
<i>Rubus chamaemorus</i>	Cloudberry				S3S4
<i>Equisetum hyemale</i> ssp. <i>affine</i>	Common Scouring-rush				S3S4
<i>Carex chordorrhiza</i>	Creeping Sedge				S1
<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3
<i>Epilobium strictum</i>	Downy Willowherb				S3
<i>Equisetum scirpoides</i>	Dwarf Scouring-Rush				S3S4
<i>Lilaeopsis chinensis</i>	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S2
<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage				S3S4
<i>Thuja occidentalis</i>	Eastern White Cedar			Vulnerable	S1
<i>Carex vacillans</i>	Estuarine Sedge				S2?
<i>Bidens hyperborea</i>	Estuary Beggarticks				S1
<i>Carex foenea</i>	Fernald's Hay Sedge				S3

Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3
<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed				S3
<i>Dryopteris fragrans</i>	Fragrant Wood Fern				S2
<i>Ranunculus gmelinii</i>	Gmelin's Water Buttercup				S3
<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb				S2
<i>Carex haydenii</i>	Hayden's Sedge				S1
<i>Tiarella cordifolia</i>	Heart-leaved Foamflower				S2
<i>Carex cryptolepis</i>	Hidden-scaled Sedge				S3
<i>Agrimonia gryposepala</i>	Hooked Agrimony				S3
<i>Platanthera hookeri</i>	Hooker's Orchid				S3
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid				S3
<i>Carex adusta</i>	Lesser Brown Sedge				S2S3
<i>Goodyera repens</i>	Lesser Rattlesnake-plantain				S3
<i>Liparis loeselii</i>	Loesel's Twayblade				S3S4
<i>Stellaria longifolia</i>	Long-leaved Starwort				S2
<i>Campanula aparinoides</i>	Marsh Bellflower				S3
<i>Equisetum pratense</i>	Meadow Horsetail				S3
<i>Salix petiolaris</i>	Meadow Willow				S3S4
<i>Primula mistassinica</i>	Mistassini Primrose				S2
<i>Juncus stygius</i> ssp. <i>americanus</i>	Moor Rush				S2
<i>Huperzia appressa</i>	Mountain Firmoss				S3
<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3
<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2
<i>Galium boreale</i>	Northern Bedstraw				S2
<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1
<i>Xyris montana</i>	Northern Yellow-Eyed-Grass				S3
<i>Agalinis neoscotica</i>	Nova Scotia Agalinis				S3S4
<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed				S2S3
<i>Eleocharis ovata</i>	Ovate Spikerush				S2?
<i>Ranunculus pensylvanicus</i>	Pennsylvania Buttercup				S1
<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed				S3
<i>Panicum philadelphicum</i>	Philadelphia Panicgrass				S3S4
<i>Pyrola asarifolia</i>	Pink Pyrola				S3
<i>Carex hystericina</i>	Porcupine Sedge				S2
<i>Ceratophyllum echinatum</i>	Prickly Hornwort				S2S3
<i>Carex hirtifolia</i>	Pubescent Sedge				S2S3
<i>Epilobium coloratum</i>	Purple-veined Willowherb				S2?
<i>Carex rosea</i>	Rosy Sedge				S3
<i>Plantago rugelii</i>	Rugel's Plantain				S3
<i>Amelanchier spicata</i>	Running Serviceberry				S3
<i>Eriophorum russeolum</i>	Russet Cottongrass				S3S4

Table 2. Priority SOCI

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Scientific Name	Common Name	COSEWIC	SARA	NS ESA	S-Rank
<i>Salix pellita</i>	Satiny Willow				S2S3
<i>Diphasiastrum x sabinifolium</i>	Savin-leaved Ground-cedar				S3?
<i>Senecio pseudoarnica</i>	Seabeach Ragwort				S2S3
<i>Samolus parviflorus</i>	Seaside Brookweed				S3
<i>Juncus acuminatus</i>	Sharp-Fruit Rush				S3S4
<i>Alopecurus aequalis</i>	Short-awned Foxtail				S3
<i>Eriophorum gracile</i>	Slender Cottongrass				S2S3
<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass				S2
<i>Sparganium natans</i>	Small Burreed				S3
<i>Platanthera orbiculata</i>	Small Round-leaved Orchid				S3
<i>Woodsia glabella</i>	Smooth Cliff Fern				S2
<i>Limosella australis</i>	Southern Mudwort				S3
<i>Carex tuckermanii</i>	Tuckerman's Sedge				S2
<i>Equisetum variegatum</i>	Variegated Horsetail				S3
<i>Anemone virginiana var. alba</i>	Virginia Anemone				S1S2
<i>Potamogeton praelongus</i>	White-stemmed Pondweed				S3
<i>Carex peckii</i>	White-Tinged Sedge				S2?
<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil				S2
<i>Carex wiegandii</i>	Wiegand's Sedge				S3
<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S1
<i>Ribes americanum</i>	Wild Black Currant				S1
<i>Allium schoenoprasum var. sibiricum</i>	Wild Chives				S2
<i>Fragaria vesca ssp. americana</i>	Woodland Strawberry				S3S4
<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses				S3
<i>Lindernia dubia</i>	Yellow-seeded False Pimperel				S3
NON-VASCULAR PLANTS					
<i>Tortula obtusifolia</i>	a Moss				S1?
<i>Peltigera hydrothyria</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1
<i>Stereocaulon grande</i>	Grand Foam Lichen				S1S3
<i>Timmia megapolitana</i>	Metropolitan Timmia Moss				S1S2
<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4

APPENDIX C
DETAILED WETLAND DELINEATION METHODOLOGY

WETLAND DELINEATION IDENTIFICATION METHODOLOGY

Wetlands and Watercourses in Nova Scotia

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

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

Watercourses are defined in the *Environment Act* as:

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

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

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

Delineation Methodology

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

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

Soil pits were completed frequently to confirm the presence/absence of wetland hydrology and hydric soils, as per the methodology below. A general vegetation survey was also completed within the wetlands to confirm hydrophytic vegetation.

Identification of Hydrophytic Vegetation

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

WETLAND DELINEATION IDENTIFICATION METHODOLOGY

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

Table 1: Classification of Wetland-Associated Plant Species¹

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

¹ Source: Reed 1988

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

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

Identification of Hydric Soils

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

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

Determination of Wetland Hydrology

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

WETLAND DELINEATION IDENTIFICATION METHODOLOGY

Table 2: Indicators of Wetland Hydrology

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

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

References

Environmental Laboratory (1987), Corps of Engineers Wetlands Delineation Manual, US Army Corp of Engineers, 1987.

Reed. 1988. National List of Plant Species that Occur in Wetlands: NE Region (Region 1) U.S. Fish and Wildlife Service, Washington, DC.

USDA-NRCS. (United States Department of Agriculture- Natural Resources Conservation Service). 2010. *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils*. Version 7.0. 53 pp.

Zinck, M. 1998. *Rolands Flora of Nova Scotia*. Nimbus Publishing, Nova Scotia.

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

APPENDIX D
GLOSSARY OF COMMONLY USED TERMS

Glossary of Commonly Used Terms

Anaerobic – A situation in which molecular oxygen is absent (or effectively so) from the environment.

Artificial Wetland – A created wetland requiring constant maintenance to remain a wetland.

Aerobic – A situation in which molecular oxygen is part of the environment.

Aquic moisture regime – A mostly reducing soil moisture regime nearly free of dissolved oxygen due to saturation by ground water or its capillary fringe and occurring at periods when the soil temperature at 19.7 in. is greater than 5 °C.

Baseline Study – An inventory of an existing community or environment that may provide information for planning or establishing goals for success criteria.

Basin – a depression.

Bidirectional-non-tidal – water levels subject to rise and fall due to fluctuations in lake levels; only applied to lentic wetlands (excluding those with a stream bisecting them = throughflow).

Bidirectional tidal – water levels subject to ebb and flood by tides.

Bog – acidic, nutrient-poor peatland characterized by woody plants (shrub bogs by ericaceous shrubs or treed bogs by black spruce, for example) and nearly permanently saturated soils.

Braided – Where streams or rivers divide into a network of smaller channels which are divided by often temporary islands.

Buffer – An area of land bordering a waterbody and/or wetland habitat which has been designated as a no activity zone, in order to protect the marine or freshwater resource.

Chroma – The relative purity or saturation of a colour; intensity of distinctive hue as related to grayness; one of the three variables of colour.

Concretion – A local concentration of chemical compounds (e.g. calcium carbonate, iron oxide) in the form of a grain or nodule of varying size, shape, hardness, and colour. Concretions of significance in hydric soils are usually iron and/or manganese oxides occurring at or near the soil surface, which develop under conditions of prolonged soil saturation.

Conservation – Ensuring that loss or degradation of wetland ecosystem functions does not occur and that previously lost or damaged functions are recovered.

Contiguous – Whereby two or more areas of wetland habitat are hydrologically connected via a watercourse and/or drainage channel.

Contour – An imaginary line of constant elevation. The corresponding line on a map is called a contour line.

Created Wetland – The conversion of a persistent upland vegetation community or ephemeral shallow water area into a permanent wetland where no previous wetland existed.

Diked – wetland surrounded by berms (dykes), may be flooded or not

Farmed – area still wet enough to be considered wetland but subject to tillage or cultivation or wet-dependent plants (e.g., cranberries).

Glossary of Commonly Used Terms

Disturbed Wetland – A wetland that is directly or indirectly altered by external human or natural forces.

Dominance – A descriptor of vegetation that is related to the standing crop of a species in an area, usually measured by height, areal cover or basal area (for trees).

Dominant Species – A plant species that exerts a controlling influence on or defines the character of a community.

Drained – A condition in which the level or volume of groundwater or surface water has been reduced or eliminated from an area by artificial means.

Emergent Plant – A rooted plant that has parts extending above the water surface, at least during portions of the year but does not tolerate prolonged inundation.

Enhanced Wetland – An existing wetland where some planned activity by humans addresses stresses or limitations that result in an increase of one or more functions or values.

Entrenched – wetland along a stream that has undergone significant erosion, creating a deep channel.

Estuarine-Embayment – located along the shores of an open bay or similar embayment in salt-brackish tidal waters.

Estuarine-Channel – located along the shores of a tidal river in the salt-brackish zone.

Eutrophic – Refers to a water body with more nutrients than its aquatic plant community can use, occasionally resulting in algal blooms.

Excavated – material removed from the wetland creating a depression.

Exotic – Not indigenous to a region; intentionally or accidentally introduced.

Fen – a mineral-rich peatland that can be dominated by a variety of plants both herbaceous and woody including calcium-loving plants (calciphiles); examples are graminoid fen, shrub fen, and treed fen

Fill Material – Any material placed in an area to increase surface elevation.

Flat – a nearly level area with no detectable slope.

Flooded – A condition in which the soil surface is temporarily covered in flowing water from any source, such as streams overflowing their bank, runoff from adjacent or surrounding slopes, inflow from high tides, or any combination of these sources.

Floodplain – a plain subject to river overflow and characterized by alluvial (water-deposited) soils; basin – depressions on the floodplain; flat – nearly level land

Flora – A list of all plant species that occur in an area.

Fringe – bordering a water body and in tidal areas, any salt marsh or other wetland that is flooded by typical high tides and in non-tidal areas, usually a marsh in standing water (typically flooded all year in most years) and no-vegetated wetlands within the stream or river banks (in the ordinary high water mark zone).

Float mat – wetland that is not rooted to the underlying substrate; may float around in a lake, for example.

Glossary of Commonly Used Terms

Function – The physical, chemical and biological processes, attributes and linkages related to a particular wetland.

Gleyed – A soil condition resulting from prolonged soil saturation, which is manifested by the presence of bluish or greenish colours through the soil mass or in mottles spots or streaks) among other colours. Gleying occurs under reducing soil conditions resulting from soil saturation, by which iron is reduced predominantly to the ferrous state.

Grazed – wetland actively used as pasture.

Growing Season – The portion of the year when soil temperatures at 19.7 in. below the soil surface are higher than biologic zero (5°) (U.S. Department of Agriculture-soil Conservation Service 1985). For ease of determination this period can be approximated by the number of frost free days (U.S Department of the Interior 1970). The growing season in Nova Scotia is June 01 – September 30.

Habitat – The environment occupied by individuals of a particular species, population or community, including everything required during the life cycle such as food, shelter and breeding places.

Headwaters – The origins of streams and rivers.

Herb – A non-woody individual of a macrophytic species.

Herbaceous Layer – Any vegetative stratum of a plant community that is composed predominantly of herbs.

Histic epipedon – A 20-40cm soil layer at or near the surface that is saturated for 30 consecutive days or more during the growing season in most years and contains a minimum of 20 percent organic matter when no clay is present or a minimum of 30 percent organic matter when 60 percent or greater clay is present.

Histosol – An order in soil taxonomy composed of organic soils that have organic soil materials in more than half of the upper 8 cm or that are of any thickness if directly over bedrock.

Hue – A characteristic of colour that denotes a colour in relation to red, yellow, blue, etc; one of the three variables of colour. Each colour chart in the Munsell Colour Book (Munsell Colour 1975) consists of a specific hue.

Hydric Soil – Soil characterized by abundance of moisture and much reduced oxygen levels, to the extent that the soil tolerates water-tolerant vegetation.

Hydrologic Regime – The distribution and circulation of water in an area during a given period including its fluctuations periodicity.

Hydrology – The science dealing with the properties, distribution and circulation of water both on and under the surface.

Hydrophytic Vegetation (plants) – Vegetation adapted to growing in water or in hydric soil.

Indicator – An event, entity or condition that typically characterizes a prescribed environment or situation; indicators determine or aid in determining whether or not certain stated circumstances exist.

Indicator status – One of the categories (e.g. OBL) that describes the estimated probability of a plant species occurring in wetlands.

Indigenous – Species which are native to a region.

Glossary of Commonly Used Terms

Inflow – water flows into the subject wetland from an upstream channel

Inundation – A condition in which water from any source temporarily or permanently floods land surface.

Irregularly flooded-tidal – inundated less than daily by the tides

Isolated – water flow comes from high groundwater levels or from surface or subsurface runoff; no channeled flow in or out of the wetland; may be subject to overflow during extreme precipitation or snowmelt events; wetland is “geographically isolated” – surrounded completely by upland (non-hydric soils).

Logged – forested wetland where timber has been recently harvested

Lotic River-Unconfined – Located along a river (width ≥ 20 m) with a distinct floodplain

Lotic River-Confined – Located along a river (width ≥ 20 m) with little or no floodplain

Lotic Stream-Unconfined – Located along a stream (width < 20 m) with a distinct floodplain

Lotic Stream-Confined – Located along a stream (width < 20 m) with little or no floodplain

Lotic Pond – Located along an in-stream pond.

Lentic Lake – Located along the shores of a lake.

Lentic Reservoir – Located along the shores of a reservoir.

Macrophyte – Any plant species that can be readily observed without the aid of optical magnification including all vascular plant species and mosses, as well as some attached and filamentous algae.

Marsh – Freshwater wetland usually flooded for the entire growing season and dominated by herbaceous vegetation.

Mesophytic – Any plant species growing where soil moisture and aeration conditions lie between extremes. These species are typically found in habitats with average moisture conditions, neither very dry nor very wet.

Mineral soil – A soil consisting predominantly of, and having its properties determined predominantly by, mineral matter (sand, silt, clay) usually containing less than 20 percent organic matter.

Minerotrophic – Referring to waters rich in dissolved minerals, and to plant species and communities which grow well in these conditions.

Mitigation – The prevention, modification, or alleviation of impacts on the natural environment including any action with the intent to enhance beneficial effects.

Monitoring – Periodic evaluation of a site to determine success in achieving goals.

Mottles/Mottling – Spots or blotches of different colour or shades of colour interspersed within the dominant colour in a soil layer, usually resulting from the presence of periodic reducing soil conditions.

Muck – Highly decomposed organic material in which the original plant parts are not recognizable.

Glossary of Commonly Used Terms

Natural Wetland – Dominated by native biota and occurring within a biophysical system which has developed through processes devoid of human intervention. Formed by natural processes (e.g. deglaciation, Aeolian processes, tectonic forces, or karst)

Nuisance Species – Species that detract from or interfere with wetland functions and/or values.

Ombrotrophic – Referring to waters poor in nutrients, where nutrients are obtained mostly from precipitation, and to plant species and communities which grow well in these conditions.

Organic soil – A soil is classified as an organic soil when it is 1) saturated for prolonged periods (unless artificially drained) and has more than 30 percent of organic matter if the mineral fraction is more than 50 percent clay, or more than 20 percent organic matter if the mineral fraction has no clay; or 2) never saturated with water for more than a few days and having more than 34 percent organic matter.

Outflow – Water flows out of the wetland, downslope from this source; no channeled surface water inflow.

Overbank flooding – Any situation in which inundation occurs as a result of the water level of a stream rising above bank level.

Paludified – Water levels or saturation affected by paludification processes, i.e., peat mosses wicking up water from a depression, spring, or seep and thereby allowing the wetland to creep uphill, smothering upland vegetation and converting these sites to wetland

Partly drained – Ditched or tile-drained but still wet enough to be considered wetland

Peat – An accumulation of partially decayed vegetation matter or histosol formed in areas where full decomposition is inhibited by acidic and anaerobic conditions.

Periodically – Detectable regular or irregular saturated soil conditions or inundation, resulting in ponding of groundwater, precipitation, overland flow, stream flooding or tidal influences that occur(s) with hours, days, weeks, months or even years between events.

Permanently flooded – Inundated year-round in all years.

Permanently saturated – High water tables virtually year-round, conditions favor development of peat.

Plant Community – All of the plant populations occurring in a shared habitat or environment.

Ponded – A condition in which water stands in a closed depression. Water may be removed only by percolation, evaporation and/or transpiration.

Poorly Drained – Soils that commonly are wet at or near the surface during a sufficient part of the year that field crops cannot be grown under natural conditions. Poorly drained conditions are caused by a saturated zone, a layer with low hydraulic conductivity, seepage, or a combination of these conditions.

Positive Wetland Indicator – Any evidence of the presence of hydrophytic vegetation, hydric soil and/or wetland hydrology in an area.

Preliminary Wetland Determination – The process or procedure by which an area is adjudged a wetland or non-wetland outside of the accepted growing season (May 1 – September 30).

Reduced soil – A soil in which oxygen has been removed and chemical reduction of ions has taken place.

Glossary of Commonly Used Terms

Redox Features – A distinct soil morphological characteristic most readily observable by a change in soil colour. Redox features are formed by the reduction of iron and manganese oxides in the soil when in an anaerobic state i.e. soil is saturated and there is an absence of oxygen.

Regularly flooded-tidal – Inundated by the tides at least once daily.

Rehabilitation – Improving the function and values of a degraded wetland.

Relief – The elevation of a land surface between two points; including the configuration of features such as hills and valleys.

Restoration – Changing existing function and structure of wetland habitat so that it is similar to historical conditions.

Restored – Former wetland that was destroyed (e.g., effectively drained, filled, or excavated) that has regained its wetland functions by human intervention, or existing wetland with impaired functions whose functions have been completely or partially improved by human action where the goal is to restore natural functions

Rhizosphere – The zone of soil in which interactions between living plant roots and microorganisms occur.

Riparian – Inhabiting, or situated on the bank of a river, stream or watercourse.

Root Zone – The portion of a soil profile in which plant roots occur.

Salt Marsh – Tidal wetland flooded by salt water and characterized by halophytic plants

Sapling/shrub – A layer of vegetation composed of woody plants <0.8 m in diameter at breast height but greater than 1 m in height, exclusive of woody vines.

Saturated soil – A condition where all easily drained voids (pores) between soil particles in the root zone are temporarily or permanently filled with water to the soil surface at pressures greater than the atmosphere.

Seasonally flooded – Inundated for extended periods usually early in the growing season, typically flooded for more than a week

Seasonally saturated – High water tables for extended periods during the year, usually from late fall into spring, conditions favor development of mineral hydric soils

Semi-permanently flooded – Inundated year-round in most years, except extended dry periods (including droughts).

Soil matrix – The portion of a given soil having the dominant colour. In most cases, the matrix will be the portion of the soil having more than 50 percent of the same colour.

Soil texture – The relative proportions of the various sizes of particles in a soil.

Stunted – The inhibition of growth and development of trees and shrubs attributed to an excess of soil moisture (hydrology) and/or shallow rooting zones i.e. shallow bedrock.

Substrate – The base on which an attached species is growing.

Succession – Replacement of one vegetation community by another. Succession may be human induced or natural due to forces such as climate, hydrology or species competition.

Glossary of Commonly Used Terms

Swamp – Freshwater wetland dominated by woody plants (shrub swamp or forested swamp), often growing on mineral soils or mucks, and subject to seasonally flooded for extended periods.

Terrene – Located at the uppermost area in a subbasin (i.e., the source of a stream), or located along a river or stream but at an elevation not subject to overbank flooding, or located in an isolated basin, on an isolated flat, or on an isolated slope

Terrene Pond – Located along the shores of an isolated pond (no outlet)

Temporarily flooded – Inundated for brief periods usually at the beginning of the growing season, typically flooded for a week or less

Throughflow – Water flows in and out of wetland, typically as overbank flow, but also includes wetlands along lakes (lentic wetlands) that have a stream coursing through them from locations outside the lake

Topography – The pattern of the soil surface, including its relief and the position of its natural and manmade features.

Transect – A line on the ground along which observations are made at some interval.

Transition Zone – The area in which a change from one vegetation community to another, or from wetland to non-wetland habitat occurs.

Tree – A woody plant > 0.8 m in diameter at breast height, regardless of height (exclusive of woody vines).

Upland – Any area that does not qualify as a wetland because the associated hydrologic regime is not sufficiently wet to elicit development of vegetation, soils and/or hydrologic characteristics associated with wetlands. Such areas occurring within floodplains are more appropriately termed non-wetlands.

Value (soil colour) – The relative lightness or intensity of a colour.

Vegetation layer – A subunit of a plant community in which all component species exhibit the same growth form (e.g. trees, saplings/shrubs, herbs).

Watercourse (as defined under Section 105 of the *Environment Act*) – Any creek, brook, stream, river, lake, pond, spring, lagoon, or any other natural body of water, and includes all the water in it, and also the bed and the shore (whether there is actually in it or not). It also includes groundwater.

Watercourse – (as defined in the Halifax Regional Municipality [HRM] land use by-laws) – A lake, river, stream, ocean or other natural body of water.

Watershed – An area of land where water from rain and melting snow or ice drains downhill into a body of water, such as a river, lake reservoir, estuary etc. The watershed includes the streams and rivers that convey the water as well as wetlands and other natural heritage features and land surfaces from which water drains. The principle of 'everything is connected' is clearly evident in a watershed, as it involves water and any other feature or function that affects or is affected by water.

Water Table (groundwater) – The surface below which the soil is saturated with water.

Wetland – Lands that are seasonally or permanently covered by shallow water, including lands where the water table is at or very close to the surface. In either case, the presence of abundant water has caused the formation of hydric soils and has favoured the dominance of either hydrophytic or water-tolerant plants.

Glossary of Commonly Used Terms

Wetland boundary – The point on the ground at which a shift from wetlands to nonwetlands or aquatic habitats occurs.

Wetland determination – The process or procedure by which an area is adjudged a wetland or non wetland.

APPENDIX E
WETLAND AND WATERCOURSE
CHARACTERISTICS TABLES

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL1	Yes	Yes	Partial	77,502.38	Shrub Swamp	Basin	Histosol	140	surface saturation, high water table	white meadowsweet, whorled wood aster, cinnamon fern, water horsetail, bunchberry, northern starflower, three-seeded sedge, rough-stemmed goldenrod, broad-leaved cattail, northern wild raisin, spotted joe-pye-weed, common woolly bulrush	speckled alder, mountain holly, white meadowsweet, northern wild raisin, red maple, tamarack, yellow birch	red maple, balsam fir, yellow birch	Sphagnum spp. sp., eagles nest with juveniles
WL2	Yes	Yes	Partial	652.80	Shrub Swamp	Basin	Histosol	25	high water table	common Labrador tea, leatherleaf, mountain holly, goldthread, mayflower, bunchberry, common woolly bulrush Canada goldenrod, cinnamon fern, carex spp. , three-seeded sedge, spotted joe-pye-weed, wood water horsetail	black spruce, tamarack, white meadowsweet		Sphagnum spp.
WL3	Yes	Yes	Partial	8,196.61	Shrub Swamp	Slope	Histosol	15	saturation	common Labrador tea, sensitive fern, carex spp., small cranberry, wild lily-of-the-valley, wood water horsetail, black spruce, broad-leaved cattail, tawny cottongrass	black spruce, sheep laurel, leatherleaf		Sphagnum spp., small tree line transition, upland inclusions
WL4	Yes	Yes	Full	2,122.77	Shrub Swamp	Basin	Histosol	30	high water table, waterstained leaves, surface soil cracks	northern starflower, late lowbush blueberry, narrow-leaved cottongrass, bunchberry, cinnamon fern, common Labrador tea, common woolly bulrush, soft rushbluejoint reed grass, Bog aster	small cranberry, common Labrador tea, white meadowsweet, leatherleaf, red maple, sheep laurel, speckled alder	black spruce	Sphagnum spp. sp. Reindeer lichen on hummocks. Straight boundaries due to ATV trails
WL5	Yes	Yes	Partial	12,531.02	Shrub Swamp	Basin	Histosol	140	high water table, saturation, drainage patterns	cinnamon fern, bracken fern, tawny cottongrass, common Labrador tea, hairy flat-top white aster, yellow bluebead lily, marsh st. john's wort, harlequin blue flag, broad-leaved cattail, common Labrador tea, white meadowsweet, leatherleaf, sheep laurel, common boneset, small cranberry	speckled alder, red maple, leatherleaf, sheep laurel, black spruce, alternate-leaved dogwood, northern wild raisin	yellow birch, balsam fir, black spruce	Sphagnum spp. sp.
WL6	Yes	Yes	Partial	12,866.57	Shrub Swamp	Basin	Histosol	20	high water table	goldthread, equisetem spp., harlequin blue flag, sensitive fern, broad-leaved cattail, carex spp. , common Labrador tea, arrow-leaved tearthumb, arrow-leaved smartweed, hairy flat-top white aster, rough-stemmed goldenrod, cinnamon fern	white meadowsweet, red maple	red maple, yellow birch, black spruce, balsam fir	Sphagnum spp. sp.
WL7	Yes	No	Partial	437.98	Shrub Swamp/ Treed Swamp	Basin	Histosol	30	high water table, saturation	fringed sedge, cinnamon fern, common woolly bulrush, broad-leaved cattail, bunchberry, Canada goldenrod, hairy flat-top white aster, halifax blackberry, bristly dewberry, common tall manna grass	red maple, speckled alder, white meadowsweet, mountain holly, northern wild raisin	red maple, yellow birch	

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										HERBS	SHRUBS	TREES	
WL8	Yes	Yes	Partial	26,493.15	Shrub Swamp	Flat	Histosol	10	high water table	common Labrador tea, black spruce, red raspberry, nodding sedge, three-seeded sedge, tawny cottongrass	black spruce, red maple, gray birch, green speckled alder, mountain holly, paper birch		Sphagnum spp. sp.
WL9	Yes	Yes	Partial	16,470.31	Shrub Swamp	Basin	Histosol	n/a	high water table	common Labrador tea, black spruce, red raspberry, nodding sedge, three-seeded sedge, tawny cottongrass	black spruce, red maple, gray birch, green speckled alder, mountain holly, paper birch		Sphagnum spp. sp.
WL10	Yes	No	Full	335.70	Shrub Swamp	Basin	Histosol	n/a	high water table	common Labrador tea, black spruce, sheep laurel, leatherleaf, bunchberry, tawny cottongrass, cinnamon fern, common woolly bulrush, large small cranberry	mountain holly, speckled alder, red maple, black spruce, white meadowsweet, sheep laurel		Sphagnum spp. sp.
WL11	Yes	Yes	Partial	26,800.21	Treed Swamp	Basin	Histosol	n/a	high water table	bunchberry, cinnamon fern, common Labrador tea, common woolly bulrush, bunchberry, poa spp.	speckled alder, red maple, black spruce, white meadowsweet, paper birch	red maple, yellow birch, black spruce	
WL12	Yes	No	Partial	4,911.43	Shrub Swamp	Basin	Histosol	45	high water table	sheep laurel, leatherleaf, bunchberry, tawny cottongrass, cinnamon fern, common woolly bulrush, large small cranberry	mountain holly, speckled alder, red maple, black spruce, white meadowsweet, sheep laurel		
WL13	Yes	No	Partial	4,533.66	Treed Swamp/ Shrub Swamp	Basin	Histosol	n/a	high water table	cinnamon fern, common Labrador tea, common woolly bulrush, bunchberry, poa spp.	speckled alder, red maple, black spruce, white meadowsweet, paper birch	red maple, yellow birch, black spruce	Sphagnum spp. sp.
WL14	Yes	Yes	Partial	8,012.81	Shrub Swamp	Basin	Histic Epipedon	n/a	saturation, water stained leaves	tawny cottongrass, cinnamon fern, bunchberry, bristly dewberry, sensitive fern, common woolly bulrush, broad-leaved cattail	speckled alder, white meadowsweet, black spruce, red maple		
WL15	Yes	Yes	Partial	3,918.31	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	n/a	Saturation, high water table, water stained leaves	sensitive fern, cinnamon fern, tawny cottongrass, three-seeded sedge, common woolly bulrush, bunchberry, broad-leaved cattail, spotted joe-pye-weed, pearly everlasting	red maple, tamarack, black spruce, white meadowsweet, sheep laurel, leatherleaf	black spruce, tamarack, red maple	Sphagnum spp. sp.
WL16	Yes	Yes	Partial	16,285.93	Shrub Swamp	Basin	Histic Epipedon	20	saturation, water stained leaves	sensitive fern, cinnamon fern, tawny cottongrass, three-seeded sedge, common woolly bulrush, bunchberry, broad-leaved cattail, bristly dewberry	red maple, white meadowsweet, mountain holly, sheep laurel, red maple, common Labrador tea		upland inclusions
WL17	Yes	Yes	Partial	2,563.37	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	surface saturation, high water table, water stained leaves	sensitive fern, cinnamon fern, sphagnum spp., common woolly bulrush, wild sarsaparilla, equisetum spp., whorled wood aster, rough-stemmed goldenrod, bunchberry, northern starflower, three-seeded sedge, nodding sedge, broad-leaved cattail, tussock sedge	black spruce, red maple, mountain holly, yellow birch, speckled alder, balsam fir, sheep laurel, mountain holly	black spruce, red maple, balsam fir, yellow birch	Sphagnum spp. sp.

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										HERBS	SHRUBS	TREES	
WL18	Yes	Yes	Partial	16,043.18	Shrub Swamp	Basin	Histosol	40	surface saturation, high water table	cinnamon fern, northern beech fern, goldthread, bunchberry, wild sarsaparilla, sensitive fern, three-seeded sedge, nodding sedge, whorled wood aster, wild lily-of-the-valley	speckled alder, red maple, alternate-leaved dogwood, balsam fir, mountain holly	balsam fir, red maple	<i>Sphagnum spp. sp.</i>
WL19	Yes	Yes	Partial	9,074.04	Shrub Swamp	Basin	Histosol	35	high water table	cinnamon fern, sensitive fern, northern starflower, bunchberry, sheep laurel	yellow birch, balsam fir	yellow birch, red maple, balsam fir, black spruce	
WL20	Yes	Yes	Partial	6,594.28	Shrub Swamp	Basin	Histic Epipedon	20	saturation	bluejoint reed grass, common tall manna grass, cinnamon fern, Canada goldenrod, yellow birch	red maple, black spruce, hairy flat-top white aster, speckled alder, mountain holly, white meadowsweet, leatherleaf, sheep laurel		<i>Sphagnum spp. sp.</i>
WL21	Yes	Yes	Partial	33,819.84	Treed Swamp	Basin	Histosol	30	saturation, high water table	cinnamon fern, bunchberry, three-seeded sedge, nodding sedge, wild sarsaparilla, northern starflower, wild lily-of-the-valley	red maple, black spruce, speckled alder, tamarack, mountain holly, white meadowsweet, black spruce, red maple, speckled alder, yellow birch, tamarack	red maple, black spruce, yellow birch, tamarack	<i>Sphagnum spp. sp.</i>
WL22	Yes	Yes	Partial	72,873.79	Shrub Swamp	Basin	Depleted Dark Surface	25	saturation, intermittent surface water, high water table.	large small cranberry, tawny cottongrass, common woolly bulrush, poa spp., common Labrador tea, cinnamon fern, bristly dewberry, broad-leaved cattail, round-leaved sundew	mountain holly, white meadowsweet, leatherleafcommon Labrador tea, yellow birch, red maple, tamarack, black spruce	black spruce	<i>Sphagnum spp. sp.</i> ; culvert in WL; upland inclusions with reindeer lichen
WL23	Yes	Yes	Partial	24,342.32	Shrub Swamp	Basin	Histosol	n/a	high water table	three-leaved false soloman's seal, whorled wood aster, bunchberry, wild lily-of-the-valley, northern starflower, wild sarsaparilla, three-seeded sedge, cinnamon fern, fringed sedge, northern beech fern	mountain holly, speckled alder, red maple, black spruce, balsam fir, glossy buckthorn, gray birch, white meadowsweet	red maple	
WL24	Yes	Yes	Partial	4,315.17	Shrub Swamp	Basin	Histosol	20	high water table, drainage marks	tawny narrow-leaved cottongrass, broad-leaved cattail, common tall manna grass	white meadowsweet, speckled alder, mountain holly, gray birch, leatherleaf, black spruce		<i>Sphagnum spp. sp.</i>
WL25	Yes	Yes	Partial	1,434.15	Shrub Swamp	Basin	Histosol	n/a	high water table	tawny narrow-leaved cottongrass, broad-leaved cattail, common tall manna grass	white meadowsweet, speckled alder, mountain holly, gray birch, leatherleaf, black spruce		
WL26	Yes	Yes	Partial	6,022.26	Treed Swamp	Flat	Histosol	30	high water table	bluejoint reed grass, common woolly bulrush, red raspberry, hairy flat-top white aster, cinnamon fern, sheep laurel, common Labrador tea	sheep laurel, common Labrador tea, mountain holly, red maple, gray birch, black spruce	red maple, balsam fir, tamarack	
WL27	Yes	Yes	Partial	8,059.57	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	30	saturation, water stained leaves	common Labrador tea, rhodora, sheep laurel, bunchberry, lowbush late lowbush blueberry, bristly dewberry, tawny cottongrass, sallow sedge, cinnamon fern	eastern white pine, speckled alder, black spruce, red maple, mountain holly, white meadowsweet, tamarack	black spruce, red maple, tamarack	<i>Sphagnum spp. sp.</i>
WL28	Yes	No	Full	863.21	Shrub Swamp	Basin	Histic Epipedon	30	saturation	common woolly bulrush, Canada goldenrod, white meadowsweet, goldthread, bunchberry, harlequin blue flag, wild lily-of-the-valley	tamarack, mountain holly, black spruce, red maple, leatherleaf, common Labrador tea, speckled alder, white meadowsweet	black spruce	

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										HERBS	SHRUBS	TREES	
WL29	Yes	Yes	Partial	8,837.73	Shrub Swamp	Basin	Histic Epipedon	45	saturation, surface soil cracks	sensitive fern, bracken fern, tawny cottongrass, broad-leaved cattail, lowbush late lowbush blueberry, hairy flat-top white aster, rough-stemmed goldenrod, Canada manna grass	tamarack, black spruce, red maple, mountain holly, speckled alder		upland inclusions
WL30	Yes	Yes	Full	1,305.40	Shrub Swamp	Flat	Histosol	20	high water table	sensitive fern, bracken fern, tawny cottongrass, broad-leaved cattail, hairy flat-top white aster, rough-stemmed goldenrod, Canada manna grass	common Labrador tea, black spruce, red maple, sheep laurel, speckled alder		
WL31	Yes	Yes	Partial	5,100.16	Treed Swamp/ Shrub Swamp	Basin	Histosol	20		sphagnum spp., bluejoint reed grass, necklace sedge, common woolly bulrush, pink lady's-slipper, equisetum spp., northern starflower, cinnamon fern	speckled alder, leatherleaf, mountain holly, red maple	yellow birch, red maple, balsam fir	
WL32	Yes	Yes	Partial	15,855.00	Treed Swamp/ Shrub Swamp	Basin	Histosol	30	high water table	northern starflower, sensitive fern, broad-leaved cattail, common woolly bulrush, bristly dewberry, hairy flat-top white aster, reed canary grass	mountain holly, red maple, yellow birch, black spruce	red maple, yellow birch, black spruce	<i>Sphagnum spp. sp.</i>
WL33	Yes	Yes	Partial	5,164.36	Treed Swamp/ Shrub Swamp	Basin	Histosol	20	high water table	cinnamon fern, sensitive fern, common woolly bulrush, hairy flat-top white aster, wood water horsetail, tawny narrow-leaved cottongrass, harlequin blue flag, broad-leaved cattail	mountain holly, black spruce, red maple, yellow birch, white meadowsweet, common Labrador tea, speckled alder, gray birch	red maple, yellow birch	
WL34	Yes	Yes	Partial	7,585.79	Treed Swamp/ Shrub Swamp	Basin	Histosol	20	high water table, surface soil cracks	northern starflower, three-seeded sedge, cinnamon fern, northern starflower, sensitive fern, water horsetail, Canada goldenrod	red maple, black spruce, yellow birch, common Labrador tea, leatherleaf,	red maple, black spruce	
WL35	Yes	Yes	Partial	7,016.46	Treed Swamp	Basin	Histic Epipedon	35	saturation, water stained leaves	rice cut grass, common woolly bulrush, sensitive fern, cinnamon fern, wood water horsetail, goldthread, nodding sedge, spotted spotted jewelweed	northern wild raisin, speckled alder, black spruce, red maple	red maple, black spruce	
WL36	Yes	Yes	Partial	4,287.67	Shrub Swamp	Slope	Histosol	25	high water table	bluejoint reed grass, cinnamon fern, swamp red currant, sensitive fern, Canada goldenrod, bristly dewberry	red maple, yellow birch, mountain holly, speckled alder		
WL37	Yes	Yes	Partial	2,338.75	Shrub Swamp	Basin	Histic Epipedon	33	saturation, water stained leaves	sensitive fern, cinnamon fern, bracken fern, three-seeded sedge, bunchberry, wild sarsaparilla, northern starflower	balsam fir, black spruce	balsam fir, black spruce, red maple	
WL38	Yes	Yes	Partial	3,441.19	Shrub Swamp	Basin	Histic Epipedon	20	saturation, water stained leaves	sensitive fern, tawny cottongrass, Canada goldenrod, common woolly bulrush, cinnamon fern, bristly dewberry, lowbush late lowbush blueberry	mountain holly, speckled alder, red maple, yellow birch, black spruce, balsam fir, common Labrador tea		

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										HERBS	SHRUBS	TREES	
WL39	Yes	Yes	Partial	21,806.66	Shrub Swamp	Slope	Histosol	45	high water table	poa spp., northern starflower, whorled wood aster, sensitive fern, tawny cottongrass, goldthread, common woolly bulrush	red maple, white meadowsweet, mountain holly, common Labrador tea		<i>Sphagnum</i> sp.
WL40	Yes	Yes	Partial	11,179.85	Treed Swamp	Basin	Histic Epipedon	30	saturation	cinnamon fern, bunchberry, three-seeded sedge, wild sarsaparilla	speckled alder, red maple, yellow birch	balsam fir, red maple, yellow birch	
WL41	Yes	Yes	Partial	12,331.14	Shrub Swamp	Basin	Histic Epipedon	30	saturation, drainage patterns	bladder sedge, small cranberry, common woolly bulrush, harlequin blue flag, broad-leaved cattail, hairy flat-top white aster	mountain holly, tamarack, balsam fir, red maple, sheep laurel		
WL42	Yes	Yes	Partial	7,556.81	Shrub Swamp	Basin	Histic Epipedon	20	high water table	sensitive fern, nodding sedge, common woolly bulrush, tawny cottongrass, Canada goldenrod, cinnamon fern, sensitive fern, broad-leaved cattail	speckled alder, mountain holly, aster		
WL43	Yes	N	Full	2,154.03	Shrub Swamp	Basin	Histosol	20	high water table	bluejoint reed grass, sensitive fern, cinnamon fern, arrow-leaved tearthumb, common woolly bulrush	red maple, white meadowsweet, speckled alder		
WL44	Yes	Yes	Partial	11,289.24	Shrub Swamp/ Treed Swamp	Slope	Histosol	30	high water table, surface water cracks	bunchberry, wild lily-of-the-valley, goldthread, cinnamon fern, three-seeded sedge, common woolly bulrush	mountain holly, common Labrador tea, balsam fir, red maple	red maple, balsam fir	
WL45	Yes	Yes	Partial	2,391.65	Shrub Swamp/ marsh	Basin	Histosol	30	high water table	hairy flat-top white aster, sensitive fern, broad-leaved cattail, reed canary grass, common woolly bulrush, Canada goldenrod	speckled alder, red maple, white meadowsweet		
WL46	Yes	Yes	Partial	57,034.96	Shrub Swamp	Basin	Histosol	140	surface water, water stained leaves	cinnamon fern, rough-stemmed goldenrod, rice cut grass, sensitive fern, common woolly bulrush, arrow-leaved tearthumb	speckled alder, black spruce, red maple, white meadowsweet		2mx5m small pond; difficult to access
WL47	Yes	No	Partial	3,044.20	Shrub Swamp	Basin	Histic Epipedon	20	saturation, water stained leaves	bluejoint reed grass, red raspberry, Canada goldenrod	mountain holly, red maple, black spruce		
WL48	Yes	Yes	Partial	11,133.44	Shrub Swamp	Basin	Histosol	25	high water table, surface saturation	sensitive fern, rough Canada goldenrod, bluejoint reed grass, tawny cottongrass, common woolly bulrush, arrow-leaved tearthumb, broad-leaved cattail, Canada manna grass	speckled alder, mountain holly, red maple, black spruce, yellow birch		
WL49	Yes	No	Partial	1,357.37	Shrub Swamp	Basin	Histic Epipedon	40	high water table, saturation	tawny cottongrass, common woolly bulrush, Canada goldenrod, arrow-leaved tearthumb, harlequin blue flag, cinnamon fern, small cranberry	mountain holly, red maple, black spruce, red spruce, yellow birch, common Labrador tea, leatherleaf		<i>Sphagnum spp. sp.</i>
WL50	Yes	Yes	Partial	3,220.66	Treed Swamp/ Shrub Swamp	Basin	Histosol	n/a	high water table, saturation	tawny cottongrass, common woolly bulrush, bluejoint reed grass, broad-leaved cattail, hairy flat-top white aster	black spruce, red maple	black spruce	<i>Sphagnum spp. sp.</i>

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										HERBS	SHRUBS	TREES	
WL51	Yes	Yes	Full	1,495.70	Shrub Swamp	Basin	Histosol	50	high water level, surface saturation, surface water	nova scotia agalinis, common woolly bulrush, arrow-leaved tearthumb, broad-leaved cattail, broad-fruited american burreed, water horsetail	red maple, black spruce, yellow birch		
WL52	Yes	Yes	Partial	13,124.45	Shrub Swamp/ Treed Swamp	Basin	Histosol	140	high water table	cinnamon fern, sensitive fern, three-seeded sedge, goldthread, wild sarsaparilla, northern starflower, bunchberry	chokecherry, speckled alder, balsam fir, black spruce, red maple	red maple, balsam fir	
WL53	No	Yes	Partial	4,066.26	Treed Swamp	Basin	Histosol	n/a	high water table	cinnamon fern, bunchberry, goldthread, nodding sedge, three-seeded sedge	speckled alder, balsam fir, red maple, mountain holly	balsam fir, red maple	<i>Sphagnum spp. sp.</i>
WL54	Yes	No	Full	696.12	Shrub Swamp	Basin	Histic Epipedon	20	saturation, water stained leaves	goldthread, Canada goldenrod, cinnamon fern, tawny cottongrass, common woolly bulrush, hairy flat-top white aster	mountain holly, red maple, white meadowsweet, leatherleaf, black spruce		<i>Sphagnum spp. sp.</i>
WL55	Yes	Yes	Partial	4,397.53	Treed Swamp/ Marsh	Basin	Histosol	30	water stained leaves	cinnamon fern, reed canary grass, wild lily-of-the-valley, whorled wood aster, northern starflower, bunchberry	red maple, speckled alders, balsam fir	yellow birch, red maple	
WL56	Yes	Yes	Partial	2,707.31	Treed Swamp	Basin	Histic Epipedon	50	saturation, high water table, water stained leaves, drainage patterns	cinnamon fern, sensitive fern, eastern hay-scented fern, bunchberry, wild lily-of-the-valley	mountain maple, black spruce, red maple	black spruce, red maple, yellow birch	
WL57	Yes	Yes	Partial	20,066.51	Treed Swamp/ Bog	Basin	Histic Epipedon	40	saturation, waterstained leaves, water marks, drainage patterns	sensitive fern, cinnamon fern, nodding sedge, spotted spotted jewelweed, three-seeded sedge	speckled alder, balsam fir, red maple	sugar maple, red maple, black spruce, american water horehound	some upland inclusions with Bracken Fern on them
WL58	No	Yes	Partial	1,126.10	Treed Swamp	Basin	Histic Epipedon	30	surface water, saturation, water stained leaves, drainage patterns	cinnamon fern, wild lily-of-the-valley, bunchberry, northern starflower, wild sarsaparilla	black spruce, red maple	black spruce, red maple, yellow birch	
WL59	Yes	Yes	Partial	3,287.91	Treed Swamp/ Shrub Swamp	Basin	Histosol	50	water stained leaves, water marks, drainage patterns, saturation	yellow birch, three-seeded sedge, bluejoint reed grass, whorled wood aster, spotted spotted jewelweed, bunchberry, northern starflower, sensitive fern, cinnamon fern	white meadowsweet, speckled alders, red maple, balsam fir	red maple, black spruce, yellow birch, balsam fir	
WL60	Yes	Yes	Partial	2,779.10	Shrub Swamp	Basin	Histic Epipedon	30	water stained leaves, drainage patterns, high water table	sensitive fern, fringed sedge, soft rush, common woolly bulrush, tawny cottongrass, cinnamon fern, northern starflower, three-seeded sedge	speckled alder, white meadowsweet, red maple,	balsam fir, red maple	some upland inclusions
WL61	Yes	Yes	Partial	1,336.28	Treed Swamp	Basin	Histic Epipedon	45	WSL, WM, DP, S	cinnamon fern, northern starflower, bunchberry, three-seeded sedge, three-leaved false soloman's seal	black spruce, leatherleaf, red maple, balsam fir, mountain holly	yellow birch, balsam fir, red maple	some upland inclusions
WL62	Yes	No	Partial	945.63	Shrub Swamp/ Treed Swamp	Basin	Histosol	100	saturation, water stained leaves	tawny cottongrass, common Labrador tea, common woolly bulrush, wild lily-of-the-valley, cinnamon fern	white meadowsweet, bristly dewberry, red maple, rhodora, common Labrador tea, leatherleaf	red maple, black spruce, yellow birch	transitions to Treed Swamp at boundary
WL63	Yes	Yes	Partial	2,733.52	Bog/ Shrub Swamp	Basin	Histosol	70	high water table, saturation	tawny cottongrass, common Labrador tea, common woolly bulrush, wild lily-of-the-valley	white meadowsweet, bristly dewberry, red maple, rhodora, common Labrador tea, leatherleaf	red maple, black spruce, tamarack, yellow birch	

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										HERBS	SHRUBS	TREES	
WL64	Yes	Yes	Partial	3,915.00	Shrub Swamp/ Treed Swamp	Basin	Histic Epipedon	25	saturation, water marks, water stained leaves, drainage patterns	sensitive fern, cinnamon fern, star sedge, three-leaved false soloman's seal, northern starflower	balsam fir	balsam fir	
WL65	Yes	No	Full	312.15	Shrub Swamp	Basin	Sandy Mucky Mineral	40	water stained leaves, water marks, high water table	broad-leaved cattail, reed canary grass, nodding sedge, Canada manna grass	white meadowsweet, speckled alder, red maple		very sandy soil
WL66	Yes	No	Partial	981.70	Shrub Swamp	Basin	Depleted Dark Surface	40	saturation, water marks, water stained leaves	common woolly bulrush, hairy flat-top white aster, Canada manna grass, sphagnum spp., poa spp., carex spp., common woolly bulrush, Canada goldenrod	white meadowsweet, red maple, sheep laurel, speckled alder		very sandy soil
WL67	Yes	Yes	Partial	3,418.88	Shrub Swamp	Basin	Histic Epipedon	20	high water table	sensitive fern, yellow birch, common woolly bulrush, hairy flat-top white aster, cinnamon fern, northern starflower, bunchberry, Canada goldenrod	speckled alder, black spruce, sugar maple, yellow birch, mountain holly		Sloped Topo, creating sink/ bowl
WL68	Yes	Yes	Partial	10,405.60	Treed Swamp/ Shrub Swamp	Flat	Histic Epipedon	15	high water table, water stained leaves	fowl manna grass, sensitive fern, cinnamon fern, three-seeded sedge, wild lily-of-the-valley, wood water horsetail	common Labrador tea, rhodora, paper birch, mountain holly, black spruce	paper birch, yellow birch, red maple, black spruce	Flat area; no visible flow
WL69	Yes	Yes	Partial	6,579.90	Treed Swamp	Basin	Histosol	25	water stained leaves, water marks	bunchberry, wild lily-of-the-valley, star sedge, northern starflower, sensitive fern	red raspberry, white meadowsweet, balsam fir, red maple	red maple, trembling aspen, paper birch, balsam fir	
WL70	Yes	Yes	Partial	4,881.77	Marsh/ Shrub Swamp	Flat	Histic Epipedon	10	water stained leaves, water marks	sensitive fern, bluejoint reed grass, carex spp. sp.	sheep laurel, black spruce, tussock sedge, white meadowsweet, speckled alder, red maple		Inflow offsite, bowl, sloping from NW to SE, Sloped top in WC, with fringe WL on edges
WL71	Yes	Yes	Full	2,656.12	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	high water table	reed canary grass, tawny cottongrass, sensitive fern, cinnamon fern	northern wild raisin, sheep laurel, leatherleaf, speckled alder, black spruce, gray birch	paper birch, black spruce	
WL72	Yes	Yes	Partial	44,689.82	Marsh/ Treed Swamp/ Shrub Swamp	Basin	Histosol	40	high water table, standing water	fowl blue grass, soft rush, harlequin blue flag, american burreed, Canada rush, american burreed	white meadowsweet, speckled alder, northern wild raisin	black spruce, red maple	Very Large, Upland inclusions
WL73	Yes	Yes	Partial	9,907.15	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	high water table	bunchberry, northern starflower, sensitive fern, three-seeded sedge, cinnamon fern, goldthread	american mountain ash, mountain holly, northern wild raisin, red maple	paper birch, red maple	
WL74	Yes	Yes	Partial	12,922.50	Shrub Swamp	Basin	Histic Epipedon	20	saturation, drainage patterns, surface soil cracks	tussock sedge, northern starflower, Canada goldenrod, cinnamon fern, sensitive fern, bristly dewberry, common marsh bedstraw, necklace sedge, common woolly bulrush, Canada rushm Canada manna grass	mountain holly, white meadowsweet, red maple, black spruce, speckled alder, common Labrador tea, northern wild raisin		two berm inclusions
WL75	Yes	Yes	Full	1,409.54	Shrub Swamp	Basin	Histosol	40	high water table	sensitive fern, common woolly bulrush, reed canary grass, carex spp., Canada goldenrod, poa spp., hairy flat-top white aster, Canada manna grass	mountain holly, speckled alder, yellow birch, northern wild raisin, red maple, white meadowsweet, northern wild raisin		
WL76	Yes	Yes	Full	652.51	Treed Swamp/ Shrub Swamp	Basin	Histosol	40	high water table	Canada goldenrod, hairy flat-top white aster, common woolly bulrush, bracken fern, cinnamon fern, sensitive fern, reed canary grass	speckled alder, northern wild raisin		

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL77	Yes	Yes	Partial	4,187.15	Treed Swamp	Flat	Depleted Dark Surface	40	saturation, water stained leaves, water marks, drainage patterns	rice cut grass, sensitive fern, spotted spotted jewelweed, wild lily-of-the-valley, bunchberry, cinnamon fern, cinnamon fern, three-seeded sedge	speckled alder, white meadowsweet, balsam fir	balsam fir, red maple, yellow birch	
WL78	Yes	Yes	Full	1,564.45	Shrub Swamp	Basin	Histosol	35	high water table	tawny cottongrass, pale Bog laurel, common Labrador tea, late lowbush late lowbush blueberry	common Labrador tea, leatherleaf, gray birch, sheep laurel		late Lowbush Blueberry Wetland
WL79	Yes	Yes	Partial	7,902.26	Treed Swamp/ Marsh	Floodplain	Sandy Redox	25	high water table, water marks, drainage patterns, waterstained leaves	broad-leaved cattail, hairy flat-top white aster, Canada goldenrod, large small cranberry, sensitive fern, cinnamon fernbluejoint reed grass, common woolly bulrush	white meadowsweet, black spruce, red maple, speckled alder	red maple, black spruce, yellow birch	WC runs through, very sandy lowland area
WL80	Yes	Yes	Partial	3,131.15	Bog	Basin	Histosol	80	saturation, intermittent surface water	common woolly bulrush, narrow-leaved cottongrass, cinnamon fern, common Labrador tea, rhodora	rhodora, common Labrador tea, mountain holly, gray birch, tamarack, sheep laurel, northern wild raisin, leatherleaf	tamarack, black spruce	
WL81	No	Yes	Partial	519.52	Treed Swamp	Basin	Histic Epipedon	25	saturation, water stained leaves	three-seeded sedge, bunchberry, bristly dewberry, northern wild raisin, hairy flat-top white aster	mountain holly, black spruce, canada serviceberry, speckled alder	black spruce, balsam fir, red maple, paper birch	
WL82	Yes	Yes	Partial	3,389.63	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	25	saturation, waterstained leaves, water marks, drainage patterns	three-seeded sedge, sensitive fern, bladder sedge, northern starflower, bristly dewberry, bunchberry, cinnamon fern, rough-stemmed goldenrod	speckled alder, balsam fir, red maple	red maple, black spruce, paper birch, tamarack, balsam fir	
WL83	Yes	Yes	Partial	1,030.85	Treed Swamp	Basin	Histosol	50	high water table, surface soil cracks, water stained leaves	cinnamon fern, northern starflower	balsam fir, speckled alder	balsam fir, red maple	
WL84	Yes	Yes	Partial	2,261.09	Treed Swamp	Basin	Histosol	22	high water table, surface soil cracks, water stained leaves	sheep laurel, northern wild raisin, bunchberry, bluejoint reed grass, wild sarsaparilla, hairy flat-top white aster, cinnamon fern	northern wild raisin, red maple, black spruce, white meadowsweet, balsam fir, sheep laurel, speckled alder	red maple, paper birch, balsam fir	upland inclusion
WL85	Yes	Yes	Partial	1,243.23	Treed Swamp	Basin	Histosol	21	high water table	cinnamon fern, red maple, bristly dewberry, sheep laurel, common Labrador tea, bunchberry, mountain holly, downy late lowbush blueberry	northern wild raisin, mountain holly, red maple, black spruce	maple, trembling aspen	<i>Sphagnum spp. sp.</i>
WL86	Yes	No	Partial	1,754.02	Shrub Swamp	Basin	Histosol	80	saturation, high water table	broom sedge, bladder sedge, tawny cottongrass, common woolly bulrush, bunchberry, common Labrador tea, bristly dewberry	white meadowsweet, sheep laurel, leatherleaf, red maple		
WL87	Yes	Yes	Partial	1,170.90	Treed Swamp	Basin	Histosol	40	surface saturation, high water table, water stained leaves	wood water horsetail, bristly dewberry, bunchberry, white meadowsweet, northern beech fern, red maple, wild sarsaparilla, cinnamon fern	canada serviceberry, northern wild raisin, mountain holly, balsam fir, red maple	red maple, balsam fir, black spruce	<i>Sphagnum spp. sp.</i>
WL88	Yes	Yes	Partial	3,343.26	Treed Swamp	Basin	Histosol	35	high water table, saturation	tawny cottongrass, three-seeded sedge, sheep laurel, mountain holly, cinnamon fern, rhodora	mountain holly, tamarack, leatherleaf, rhodora, sheep laurel, black spruce	black spruce	
WL89	Yes	Yes	Partial	2,815.61	Treed Swamp	Basin	Histic Epipedon	25	saturation, water stained leaves, drainage patterns	three-seeded sedge, bunchberry, northern wild raisin, rhodora, goldthread, mountain holly, red maple	red maple, northern wild raisin, mountain holly, black spruce	red maple, yellow birch	Upland inclusion

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										HERBS	SHRUBS	TREES	
WL90	No	Yes	Partial	564.73	Treed Swamp	Basin	Histosol	30	high water table	wood water horsetail, common tall manna grass, mountain holly, cinnamon fern, spruce, three-seeded sedge, goldthread, bunchberry, sheep laurel, tamarack	mountain holly, tamarack, black spruce, gray birch	tamarack, red maple, black spruce	Sphagnum spp. sp.
WL91	Yes	Yes	Partial	1,566.28	Marsh	Basin	Histic Epipedon	40	high water table, surface saturation	sallow sedge, tussock sedge, yellow birch/bluejoint reed grass, arrow-leaved tearthumb, sensitive fern, common woolly bulrush	white meadowsweet, speckled alder		beaver dam/pond, fringe around watercourse
WL92	Yes	No	Partial	326.15	Shrub Swamp	Basin	Histosol	n/a	saturation, drainage marks	sensitive fern, american water horehound, broad-leaved cattail	mountain holly, red maple, speckled alder,		
WL93	Yes	Yes	Partial	661.41	Shrub Swamp	Basin	Histosol	n/a	saturation, water stained leaves	american water horehound, sensitive fern, spotted spotted jewelweed, swamp beggarticks	speckled alder, red maple, mountain holly, balsam fir		
WL94	Yes	Yes	Partial	3,075.63	Fen	Basin	Histosol	45	surface water, saturation, water stained leaves	tussock sedge, sensitive fern, Canada goldenrod	speckled alder, white meadowsweet		pugwash river goes through wetland, beaver dams
WL95	Yes	No	Partial	3,249.65	Shrub Swamp	Basin	Depleted Dark Surface	20		sensitive fern, Canada goldenrod, broad-leaved cattail, reed canary grass, common woolly bulrush	mountain holly, steeplebush, speckled alder, red maple		
WL96	Yes	Yes	Partial	5,609.24	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	30	surface water, saturation, water stained leaves	sphagnum spp., poa spp.carex spp., sensitive fern, cinnamon fern, eastern hay-scented fern, rice cut grass	balsam fir, black spruce, speckled alder, red maple, yellow birch	yellow birch, balsam fir, black spruce, red maple	
WL97	Yes	Yes	Partial	9,538.35	Shrub Swamp	Basin	Depleted Dark Surface	50	saturation, surface water, water stained leaves, high water table, surface soil cracks'	tawny cottongrass, sallow sedge, american american burreed, Canada goldenrod, narrow-leaved cottongrass	white meadowsweet, mountain holly, speckled alder, red maple		dead trees, beaver house
WL98	Yes	Yes	Partial	3,566.53	Fen	Basin	Histosol	40	surface water, drainage patterns, saturation	reed canary grass, broad-leaved cattail, cinnamon fern	speckled alder, white meadowsweet, red maple,		Moving water
WL99	Yes	Yes	Partial	8,237.03	Treed Swamp	Basin	Histosol	45	surface water, saturation, water stained leaves	sallow sedge, bunchberry, interrupted fern, northern starflower, wild sarsaparilla, three-seeded sedge, bluejoint reed grass	speckled alder, mountain holly, balsam fir, red maple	Treed Swamp, balsam fir	
WL100	Yes	Yes	Partial	5,167.63	Shrub Swamp/ Bog	Basin	Histic Epipedon	140	saturation, high water table, water stained leaves	tawny cottongrass, common Labrador tea, common Labrador tea, common woolly bulrush,	balsam fir, tamarack, sheep laurel, rhodora, leatherleaf	balsam fir, tamarack	
WL101	No	Yes	Full	130.52	Treed Swamp	Basin	Depleted Dark Surface	20	saturation, waters stained leaves	cinnamon fern, bunchberry, three-seeded sedge	black spruce	balsam fir, black spruce, red maple	
WL102	Yes	Yes	Partial	13,741.70	Fen/ Treed Swamp	Basin	Histosol	140	saturation, water stained leaves	tussock sedge, bladder sedge, broad-leaved cattail, reed canary grass, three-seeded sedge, sensitive fern, bunchberry, northern starflower	red maple, balsam fir, black spruce, speckled alder	red maple, balsam fir, black spruce	
WL103	Yes	Yes	Full	627.49	Treed Swamp	Slope	Histosol	20	saturation, water stained leaves	sensitive fern, bunchberry, northern starflower, cinnamon fern	red maple, yellow birch	red maple, yellow birch, black spruce	
WL104	Yes	Yes	Full	4,304.12	Shrub Swamp	Slope	Histosol	50	saturation, drainage patterns	cinnamon fern, sensitive fern, hairy flat-top white aster, reed canary grass, sallow sedge, broad-leaved cattail	red maple, yellow birch, white meadowsweet, speckled alder		

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL105	Yes	Yes	Partial	12,176.80	Shrub Swamp	Basin	Depleted Dark Surface	20	saturation	bristly dewberry, sensitive fern, bluejoint reed grass, hairy flat-top white aster	white meadowsweet, black spruce, speckled alder, red maple		
WL106	Yes	Yes	Partial	1,038.67	Treed Swamp/ Shrub Swamp	Basin	Histosol	20	saturation, water stained leaves, drainage patterns	northern starflower, cinnamon fern, bunchberry, goldthread, spotted spotted jewelweed, american water horehound, sensitive fern, three-seeded sedge	balsam fir, red maple, black spruce	red maple, yellow birch, black spruce, balsam fir	
WL107	Yes	Yes	Partial	18,101.56	Shrub Swamp	Basin	Histosol	20	saturation, drainage patterns, water stained leaves	bristly dewberry, cinnamon fern, three-seeded sedge, sensitive fern	red maple, balsam fir, yellow birch	red maple, yellow birch, balsam fir	
WL108	Yes	Yes	Partial	1,099.69	Shrub Swamp	Basin	Histosol	20	saturation	reed canary grass, common woolly bulrush, broad-leaved cattail, poa spp., common woolly bulrush, Canada goldenrod, hairy flat-top white aster	white meadowsweet, red maple	red maple	
WL109	Yes	No	Partial	1,343.88	Shrub Swamp	Basin	Histosol	20	saturation	tawny narrow-leaved cottongrass, bunchberry, hairy flat-top white aster, reed canary grass, sensitive fern, broad-leaved cattail, common woolly bulrush	white meadowsweet, speckled alder, red maple	red maple	
WL110	Yes	Yes	Full	761.20	Shrub Swamp/ Marsh	Basin	Histosol	40	saturation, water stained leaves	reed canary grass, broad-leaved cattail, cinnamon fern	speckled alder, red maple		
WL111	Yes	Yes	Partial	1,929.93	Treed Swamp	Basin	Histosol	n/a	saturation, water stained leaves	Canada goldenrod, wood water horsetail, bunchberry, sensitive fern, bluejoint reed grass, cinnamon fern	red maple, black spruce, yellow birch	red maple, black spruce, yellow birch	
WL112	Yes	Yes	Full	1,669.34	Shrub Swamp	Basin	Histosol	30	saturation, water stained leaves	reed canary grass, broad-leaved cattail, cinnamon fern	white meadowsweet, speckled alder, red maple	balsam fir, black spruce	
WL113	Yes	No	Full	269.01	Shrub Swamp	Basin	Histosol	30	saturation, water stained leaves	tawny cottongrass, Bog aster, common woolly bulrush, hairy flat-top white aster	white meadowsweet, speckled alder, red maple	red maple	
WL114	Yes	Yes	Partial	24,851.54	Shrub Swamp	Basin	Histosol	140	water stained leaves, high water table, drainage patterns	tawny cottongrass, hairy flat-top white aster, common woolly bulrush, sallow sedge, cinnamon fern	speckled alder, black spruce, red maple		dead trees
WL115	Yes	Yes	Partial	2,436.29	Marsh/ Treed Swamp	Basin	Depleted Dark Surface	20	saturation, surface water	american american burreed, arrow-leaved tearthumb, american water horehound, broad-leaved cattail, common marsh bedstraw, common woolly bulrush	white meadowsweet, speckled alder, black spruce, red maple, balsam fir	red maple, black spruce, yellow birch	
WL116	Yes	No	Partial	332.61	Treed Swamp/ Shrub Swamp	Basin	Depleted Dark Surface	20	surface water, saturation	sensitive fern, arrow-leaved tearthumb, cinnamon fern, reed canary grass, broad-leaved cattail, hairy flat-top white aster	speckled alder, red maple, black spruce	red maple, balsam fir, black spruce	
WL117	Yes	Yes	Partial	9,065.18	Treed Swamp/ Shrub Swamp	Basin	Depleted Dark Surface	20	surface water, high water table, saturation	reed canary grass, sallow sedge, broad-leaved cattail, cinnamon fern, bunchberry, sensitive fern, common woolly bulrush	speckled alder, white meadowsweet, red maple,	red maple, black spruce, balsam fir	

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL118	Yes	Yes	Partial	2,091.63	Treed Swamp/ Shrub Swamp	Basin	Depleted Dark Surface	20	surface water, high water table, saturation	reed canary grass, sallow sedge, broad-leaved cattail, cinnamon fern, bunchberry, sensitive fern, common woolly bulrush	speckled alder, white meadowsweet, red maple,	red maple, black spruce, balsam fir	
WL119	Yes	No	Partial	613.97	Shrub Swamp	Basin	Histosol	20	saturation, water stained leaves	tawny cottongrass, broad-leaved cattail, common woolly bulrush, Canada rush, bunchberry, bristly dewberry	speckled alder, red maple, white meadowsweet		
WL120	Yes	Yes	Partial	4,579.30	Marsh/ Shrub Swamp	Floodplain	Histosol	60	saturation, surface water	sensitive fern, yellow birch, common woolly bulrush, hairy flat-top white aster, Canada goldenrod, tawny cottongrass, bristly dewberry	speckled alder, white meadowsweet, red maple, gray birch		Heron seen, beaver dam separating a pond from the wetland Henderson brook runs through the wetland
WL121	Yes	Yes	Partial	9,281.38	Shrub Swamp/ Marsh	Floodplain	Histosol	40	water stained leaves, saturation	sensitive fern, yellow birch, cinnamon fern, common woolly bulrush, tawny cottongrass, Canada goldenrod, sheep laurel, broad-leaved cattail	speckled alder, sheep laurel, white meadowsweet		Transitions from Shrub Swamp to marsh under the existing lines. Some upland inclusions
WL122	Yes	Yes	Partial	13,001.19	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	30	surface water, water stained leaves, saturation	spotted spotted jewelweed, bluejoint reed grass, bristly dewberry, rough-stemmed goldenrod, northern starflower	speckled alder, rhodora	red maple, yellow birch, balsam fir	
WL123	Yes	Yes	Partial	632.48	Shrub Swamp	Basin	Histic Epipedon	15	water marks, water stained leaves, drainage patterns	broom sedge, sensitive fern bluejoint reed grass, hairy flat-top white aster, halifax blackberry	speckled alder, white meadowsweet, northern wild raisin, red maple, gray birch		hummingbird
WL124	Yes	Yes	Partial	13,988.41	Treed Swamp/ Marsh	Basin	Histic Epipedon	20	water stained leaves	bunchberry, three-leaved false soloman's seal, northern starflower, bristly dewberry, lance-leaved aster, eastern teaberry	red maple, yellow birch, mountain holly, speckled alder	red maple, yellow birch, balsam fir	
WL125	Yes	Yes	Partial	5,692.43	Shrub Swamp	Floodplain	Histic Epipedon	15	surface water, water stained leaves, saturation	bluejoint reed grass, broom sedge, broad-leaved cattail, harlequin blue flag	speckled alder, balsam fir, gray birch, red maple, white meadowsweet, black spruce		crosses road via culvert; gated road nearby
WL126	Yes	Yes	Partial	2,996.51	Fen	Basin	Histic Epipedon	80	surface water, saturation	tawny cottongrass, Bog aster, common woolly bulrush, small cranberry, american american burreed	leatherleaf, sheep laurel, rhodora, black spruce, tamarack		several dead Black Spruce, potentially dangerous when ground is very wet
WL127	Yes	Yes	Partial	1,979.37	Shrub Swamp	Floodplain	Histosol	45	surface water, saturation, water stained leaves	nodding sedge, Canada manna grass, sensitive fern, cinnamon fern, spotted spotted jewelweed, hairy flat-top white aster, whorled wood aster bluejoint reed grass, bristly dewberry	speckled alder, red maple		In Floodplain of the brook; Hummingbird
WL128	No	Yes	Full	135.98	Treed Swamp	Basin	Depleted Dark Surface	10	saturation, water stained leaves	interrupted fern, sensitive fern, new york fern, lance-leaved aster, fringed sedge, hairy flat-top white aster	balsam fir, red maple	balsam fir, red maple	
WL129	Yes	No	Full	1,232.10	Shrub Swamp/ Marsh	Slope	Histic Epipedon	10	water marks, water stained leaves, drainage patterns	sensitive fern, broad-leaved cattail, hairy flat-top white aster, cinnamon fern bluejoint reed grass, tawny cottongrass, bunchberry, bristly dewberry	speckled alder, red maple		

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL130	No	Yes	Full	217.28	Treed Swamp	Basin	Depleted Dark Surface	20	water marks, water stained leaves, drainage patterns	northern starflower, wild lily-of-the-valley, lance-leaved aster, fowl blue grass, bristly dewberry, interrupted fern, sensitive fern, new york fern, common lady fern	balsam fir	trembling aspen, red maple, black spruce, yellow birch, balsam fir	very dry when delineated. Sphagnum spp. sp.
WL131	No	Yes	Full	272.47	Treed Swamp	Basin	Depleted Dark Surface	21	water marks, water stained leaves, drainage patterns	bristly dewberry, sensitive fern, hairy flat-top white aster, fowl blue grass, sensitive fern, northern beech fern, nodding sedge, lance-leaved aster	balsam fir, red maple, american water horehound	trembling aspen, balsam fir, red maple	very dry when delineated.
WL132	Yes	No	Partial	1,451.87	Shrub Swamp	Flat	Histic Epipedon	25	WM, WSL	sensitive fern, cinnamon fern, broad-leaved cattail, common woolly bulrush/bluejoint reed grass, bristly dewberry, hairy flat-top white aster	red maple, white meadowsweet		
WL133	Yes	No	Partial	1,296.34	Shrub Swamp	Slope	Histic Epipedon	15	water stained leaves, saturation	broad-leaved cattail, common woolly bulrush, soft rush, cinnamon fern, sensitive fern, bristly dewberry/bluejoint reed grass	common Labrador tea, white meadowsweet, speckled alder, gray birch, black spruce		
WL134	Yes	Yes	Full	542.93	Treed Swamp	Basin	Histic Epipedon	10	WM, WSL, DP, SW	bluejoint reed grass, cinnamon fern, wild lily-of-the-valley	speckled alder, black spruce, red maple, white meadowsweet	black spruce, red maple, balsam fir, yellow birch	Culvert Under Road drains into wetland, wetland is in the ditch of the road
WL135	Yes	No	Partial	1,289.47	Shrub Swamp	Basin	Histosol	70	water marks, water stained leaves, saturation	broad-leaved cattail, cinnamon fern, Canada goldenrod, common woolly bulrush, tawny cottongrass	white meadowsweet, speckled alder, red maple		
WL136	No	Yes	Partial	342.98	Treed Swamp	Basin	Histic Epipedon	50	water stained leaves	cinnamon fern, three-seeded sedge, northern beech fern, wild lily-of-the-valley	red maple, balsam fir	red maple, balsam fir, black spruce	very dry when delineated
WL137	Yes	Yes	Partial	546.42	Shrub Swamp	Basin	Histic Epipedon	15	water stained leaves, high water table	sensitive fern, cinnamon fern, water horsetail, tawny cottongrass, bristly dewberry, hairy flat-top white aster	red maple, speckled alder, pussy willow, white meadowsweet	red maple, black spruce	
WL138	Yes	Yes	Partial	1,099.05	Treed Swamp	Basin	Histic Epipedon	20	WSL	cinnamon fern, bunchberry, nodding sedge, northern starflower, three-seeded sedge	northern wild raisin, balsam fir, red maple	red maple, yellow birch, balsam fir	
WL139	Yes	No	Full	372.79	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	15	drainage patterns, water stained leaves	sensitive fern, cinnamon fern, water horsetail, tawny cottongrass, bristly dewberry, hairy flat-top white aster	red maple, speckled alder, pussy willow, white meadowsweet	red maple, black spruce	
WL140	Yes	Yes	Full	189.58	Treed Swamp	Basin	Histosol	20	saturation, water stained leaves	hairy flat-top white aster/bluejoint reed grass, wild sarsaparilla, cinnamon fern, new york fern	yellow birch, balsam fir	red maple, trembling aspen, balsam fir, yellow birch	
WL141	Yes	Yes	Full	132.69	Shrub Swamp	Basin	Histic Epipedon	25	saturation, water stained leaves	sensitive fern, cinnamon fern, common woolly bulrush, tawny cottongrass, bristly dewberry, hairy flat-top white aster	red maple, speckled alder, black spruce, white meadowsweet	red maple, black spruce	
WL142	Yes	Yes	Partial	2,121.98	Shrub Swamp	Basin	Redox Depressions	15	water stained leaves	fringed sedge, sensitive fern	mountain holly, white meadowsweet, speckled alder, red maple, yellow birch		lots of dead trees

WETLAND ID	EXISTING IN L8001	EXISTING IN L8005	PARTIAL OR FULL	WETLAND SIZE IN ROW (sq.m)	WETLAND TYPE	LANDFORM	HYDRIC SOIL INDICATOR	SUBSTRATE DEPTH (cm)	SURFACE/HYDROLOGIC CONDITIONS	VEGETATION			ADDITIONAL NOTES
										HERBS	SHRUBS	TREES	
WL143	Yes	Yes	Partial	1,267.98	Shrub Swamp	Slope	Histosol	10	DP	tawny cottongrass, fringed sedge, common woolly bulrush, cinnamon fern, necklace sedge, lance-leaved aster	white meadowsweet, speckled alder, red maple	red maple, black spruce	steep slope, very dry conditions
WL144	Yes	Yes	Partial	1,034.02	Shrub Swamp	Slope	Histic Epipedon	25	saturation	sensitive fern, harlequin blue flag, broad-leaved cattail, tawny cottongrass, common woolly bulrush	leatherleaf, sheep laurel, black spruce		
WL145	Yes	Yes	Partial	2,070.02	Shrub Swamp	Basin	Histosol	15	WM, WSL	star sedge, wild lily-of-the-valley, bunchberry	red maple, yellow birch, black spruce	balsam fir, black spruce, red maple, yellow birch, paper birch	
WL146	Yes	Yes	Partial	2,678.08	Treed Swamp	Basin	Histosol	20	water stained leaves, saturation, surface water	bristly dewberry, cinnamon fern, bunchberry, wild lily-of-the-valley, woodland horsetail, sensitive fern	balsam fir, yellow birch	red maple, yellow birch, balsam fir	
WL147	Yes	Yes	Partial	3,620.63	Shrub Swamp	Flat	Histic Epipedon	30	saturation	soft rush, common woolly bulrush, sensitive fern	white meadowsweet, speckled alder, red maple		
WL148	Yes	Yes	Partial	4,442.35	Shrub Swamp	Basin	Histic Epipedon	20	saturation, surface water	cinnamon fern, soft rush, Canada manna grass, bristly dewberry, necklace sedge, arrow-leaved smartweed	speckled alder	black spruce, paper birch, yellow birch	Small pond
WL149	Yes	Yes	Partial	1,268.07	Shrub Swamp	Basin	Histosol	45	SW, WM, WSL	tawny cottongrass, common woolly bulrush, sensitive fern, cinnamon fern, Canada goldenrod	speckled alder, red maple		
WL150	Yes	Yes	Partial	3,241.30	Shrub Swamp	Basin	Histic Epipedon	80	saturation	common woolly bulrush, water horsetail, bristly dewberry, carex spp. sp., narrow-leaved spring beauty, broad-leaved cattail	red maple, white meadowsweet		
WL151	No	Yes	Partial	1,749.23	Treed Swamp	Basin	Depleted Dark Surface	20	water stained leaves, saturation	cinnamon fern, wild sarsaparilla, whorled wood aster, northern northern starflower, wild lily-of-the-valley	american water horehound, northern wild raisin, mountain holly, balsam fir	american water horehound, balsam fir	
WL152	Yes	Yes	Partial	1,091.38	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	40	saturation, high water table	woodland horsetail, eastern hay-scented fern, lance-leaved aster, cinnamon fern, nodding sedge	white meadowsweet, balsam fir, red maple, speckled alder	black spruce, paper birch, yellow birch, balsam fir	On tree line - comes in and out of the boundary
WL153	Yes	Yes	Partial	2,300.37	Treed Swamp	Basin	Histosol	60	saturation, water stained leaves	sallow sedge, soft rush, cinnamon fern, hairy flat-top white aster	halifax blackberry, speckled speckled alder, red maple	yellow birch, red maple, balsam fir	
WL154	Yes	Yes	Partial	805.23	Shrub Swamp	Slope	Histic Epipedon	15	saturation	common marsh bedstraw, tawny cottongrass, cinnamon fern, common woolly bulrush	black spruce, white meadowsweet	red maple, black spruce	plenty of slash present in the area
WL155	Yes	Yes	Partial	1,493.20	Treed Swamp	Basin	Histic Epipedon	40	saturation	goldthread, Canada violet, bristly dewberry, tawny cottongrass, nodding sedge, Canada manna grass, cinnamon fern	speckled alder, black spruce	black spruce	
WL156	Yes	Yes	Partial	2,677.05	Treed Swamp	Basin	Histosol	30	saturation, high water table	slender rush, wild lily-of-the-valley, harlequin blue flag, hairy flat-top white aster, common marsh bedstraw	balsam fir, black spruce, speckled alder	black spruce, balsam fir	some exposed/near surface bedrock
WL157	Yes	No	Full	312.29	Shrub Swamp	Basin	Histic Epipedon	15	saturation, surface water	american american burreed, slender rush, black sedge, cinnamon fern	balsam fir, white meadowsweet, red maple	black spruce, red maple	evidence of surface water pooling in wet season
WL158	Yes	Yes	Full	1,230.82	Shrub Swamp	Basin	Histosol	70	WM, WSL, DP	red raspberry, tawny cottongrass, bunchberry, cinnamon fern	speckled alder, red maple, white meadowsweet		some deeper areas that might be treacherous

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										HERBS	SHRUBS	TREES	
WL159	Yes	No	Full	282.40	Shrub Swamp	Slope	Histic Epipedon	15	WM, WSL, DP, SW	american water horehound, Canada violet, sensitive fern, arrow-leaved smartweed	speckled alder		evidence of surface water pooling in wet season
WL160	No	Yes	Full	303.04	Treed Swamp/ Shrub Swamp	Basin	Histosol	80	saturation	nodding sedge, three-seeded sedge, cinnamon fern, sensitive fern, bunchberry	black spruce, red maple	red maple, balsam fir, black spruce	stabilization likely required - very deep areas
WL161	Yes	Yes	Partial	3,187.94	Treed Swamp	Basin	Histosol	35	saturation, high water table	goldthread, wild lily-of-the-valley, three-seeded sedge, small small cranberry, three-leaved false soloman's seal, cinnamon fern, northern beech fern	balsam fir, yellow birch, black spruce	balsam fir, yellow birch, black spruce	
WL162	Yes	No	Full	261.55	Shrub Swamp	Slope	Histic Epipedon	10	WM, WSL	sensitive fern, bristly dewberry, bunchberry, tawny cottongrass, hairy flat-top white aster	speckled alder, black spruce		very shallow - bedrock near surface
WL163	Yes	No	Partial	554.55	Shrub Swamp/ Marsh	Basin	Very Shallow Dark Surface	15	WSL, DP, SSC	slender rush, common marsh bedstraw, marsh st. john's wort,	common woolly bulrush, speckled alders, aster spp.	black spruce	
WL164	Yes	Yes	Partial	1,760.43	Shrub Swamp	Basin	Histosol	10	saturation, surface soil cracks, water stained leaves	bluejoint reed grass, tawny cottongrass, Canada goldenrod, hairy flat-top white aster, bristly dewberry	white meadowsweet, gray birch, black spruce		Shrub Swamp/ marsh
WL165	Yes	Yes	Partial	7,921.99	Shrub Swamp	Basin	Histic Epipedon	15	saturation, surface water	Canada manna grass, nodding sedge, hairy flat-top white aster, bristly dewberry, rough-stemmed goldenrod	speckled alder, balsam fir		exposed bedrock
WL166	Yes	Yes	Partial	4,030.59	Treed Swamp	Floodplain	Histic Epipedon	20	saturation	sensitive fern, american water horehound, rough-stemmed goldenrod, common marsh bedstraw, fowl manna grass	speckled alder	balsam fir, red maple	bedrock very shallow in spots
WL167	Yes	Yes	Partial	1,683.73	Shrub Swamp	Slope	Histosol	10	surface water, saturation	slender rush, sensitive fern, red raspberry, bunchberry, Canada goldenrod, tawny cottongrass, arrow-leaved tearthumb	red maple, speckled alder, white meadowsweet		exposed bedrock various locations throughout
WL168	Yes	Yes	Full	1,699.80	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	saturation, high water table, water stained leaves	arrow-leaved tearthumbbluejoint reed grass, sensitive fern, cinnamon fern	red maple, black spruce, speckled alder		
WL169	Yes	Yes	Partial	12,175.05	Shrub Swamp	Floodplain	Histosol	100	surface water, saturation, water stained leaves	large small cranberry, tawny cottongrassbluejoint reed grass, marsh st. john's wort, hairy flat-top white aster, Canada rush	speckled alder, white meadowsweet, black spruce		Throughflow with beaver lodge
WL170	Yes	Yes	Full	1,309.59	Shrub Swamp	Basin	Histosol	60	saturation	sensitive fern, tawny cottongrass, bristly dewberry, arrow-leaved smartweed, common woolly bulrush, cinnamon fern	speckled alder, white meadowsweet, black spruce		Full of slash/fresh cut
WL171	Yes	Yes	Partial	3,104.91	Shrub Swamp	Basin	Histic Epipedon	30	saturation	bristly dewberry, cinnamon fern, hairy flat-top white aster, swamp red currant, common woolly bulrush	speckled alder, white meadowsweet, red maple	black spruce	Exposed bedrock surrounding wetland, some snags, purple fringed orchids in area (outside boundary)
WL172	No	Yes	Full	112.45	Treed Swamp	Basin	Histosol	30	saturation	twinflower, wild lily-of-the-valley, cinnamon fern, fowl manna grass,	red maple, yellow birch	red maple, yellow birch	

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										HERBS	SHRUBS	TREES	
WL173	No	Yes	Partial	1,198.32	Treed Swamp	Basin	Histosol	40	saturation	cinnamon fern, sensitive fern, wild sarsaparilla, whorled wood aster, bunchberry, bristly dewberry	red maple, mountain maple	black spruce, red maple	
WL174	Yes	Yes	Full	2,242.63	Treed Swamp/ Shrub Swamp/ Marsh	Basin	Histic Epipedon	100	saturation, high water table, surface water	slender rush, tawny cottongrass, common woolly bulrush, sensitive fern	white meadowsweet, speckled alder, red maple	paper birch, black spruce, red maple	
WL175	Yes	Yes	Partial	1,059.55	Shrub Swamp	Basin	Histosol	100	saturation, hydrogen sulfide odour	fringed sedge, tawny cottongrass, cinnamon fern, Canada rush	speckled alder, white meadowsweet, black spruce		
WL176	Yes	Yes	Partial	4,075.09	Treed Swamp/ Marsh	Basin	Histosol	100	surface water, saturation, hydrogen sulfide odour	broad-leaved cattail, slender rush, tawny cottongrass	white meadowsweet, sheep laurel, red maple	balsam fir, red maple	not passable - any vehicle would sink
WL177	Yes	No	Full	299.63	Shrub Swamp	Basin	Histic Epipedon	25	surface water, saturation, hydrogen sulfide odour	bristly dewberry, cinnamon fern, hairy flat-top white aster, swamp red currant, common woolly bulrush	speckled alder, white meadowsweet, red maple		nearby watercourse serves as a boundary of the wetland
WL178	Yes	Yes	Full	386.94	Shrub Swamp	Slope	Histic Epipedon	30	saturation, high water table, water stained leaves, surface water	sensitive fern, cinnamon fern, broad-leaved cattail, woodland horsetail	white meadowsweet, black chokeberry, speckled alder		
WL179	Yes	Yes	Full	101.74	Shrub Swamp	Flat	Histosol	35	surface water, saturation, water stained leaves	sensitive fern, cinnamon fern, carex spp., common woolly bulrush, bristly dewberry, rough-stemmed goldenrod, common marsh bedstraw, fowl blue grass, reed canary grass, three-seeded sedge	black chokeberry, speckled alder, northern wild raisin	black spruce, red maple, yellow birch, balsam fir	
WL180	Yes	Yes	Full	257.57	Shrub Swamp	Slope	Histosol	50	WM, WSL, DP, SW	star sedge, rough-stemmed goldenrod, bristly dewberry, bunchberry, cinnamon fern, sensitive fern, common woolly bulrush	speckled alder, red maple	red maple	
WL181	Yes	No	Full	127.79	Shrub Swamp	Basin	Histosol	15	surface water, water stained leaves	bluejoint reed grass, tawny cottongrass, common woolly bulrush, cinnamon fern, sensitive fern	red maple	red maple	
WL182	Yes	Yes	Partial	3,919.95	Shrub Swamp	Basin	Redox Dark Surface	15	saturation, high water table, water stained leaves	cinnamon fern, sensitive fern, fringed sedge, rough-stemmed goldenrod, bristly dewberry, spotted spotted jewelweed	speckled alder		Primarily an Speckled Alderswamp
WL183	Yes	Yes	Partial	904.56	Shrub Swamp	Basin	Histosol	15	saturation, high water table	common woolly bulrush, cinnamon fern, red raspberry, sensitive fern, sallow sedge, tawny cottongrass, hairy flat-top white aster, Canada goldenrod	speckled alder, white meadowsweet, red maple		
WL184	Yes	No	Full	349.61	Shrub Swamp	Basin	Histosol	15	saturation, high water table	cinnamon fern, bunchberry, bristly dewberry, tawny cottongrass	sheep laurel, common Labrador tea, leatherleaf, black spruce	black spruce	
WL185	Yes	Yes	Partial	2,756.48	Shrub Swamp	Basin	Histosol	100	saturation	cinnamon fern, sensitive fern, bunchberry, northern starflower, bristly dewberry	speckled alder, red maple	red maple, balsam fir, black spruce	Road runs up the middle with a culvert
WL186	Yes	Yes	Partial	1,900.19	Shrub Swamp/ Treed Swamp/ Marsh	Basin	Histosol	30	saturation, high water table, water stained leaves	common marsh bedstraw, cinnamon fern, bristly dewberry, water horsetail	speckled alder	balsam fir, red maple	Road up the middle, with Treed Swamp on one side, and Speckled Alderswamp/Marsh on the other
WL187	No	Yes	Partial	153.12	Treed Swamp	Basin	Histosol	50	saturation, water stained leaves	cinnamon fern, spotted spotted jewelweed, northern beech fern, nodding sedge, star sedge	yellow birch, balsam fir	red maple, yellow birch, balsam fir	

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										HERBS	SHRUBS	TREES	
WL188	Yes	No	Partial	1,436.35	Shrub Swamp	Basin	Depleted Dark Surface	30	saturation, high water table	sensitive fern, bluejoint reed grass, common woolly bulrush, cinnamon fern, Canada goldenrod, hairy flat-top white aster, broad-leaved cattail	speckled alder, red maple, red raspberry, white meadowsweet		
WL189	Yes	No	Partial	1,332.27	Shrub Swamp	Basin	Histosol	60	saturation, high water table	sensitive fern, cinnamon fern, soft rush, common woolly bulrush, tawny cottongrass	speckled alder, white meadowsweet, red maple	balsam fir, red maple	
WL190	Yes	Yes	Partial	2,385.41	Shrub Swamp	Basin	Histosol	45	saturation, high water table	sensitive fern, bluejoint reed grass, common woolly bulrush, cinnamon fern, Canada goldenrod, hairy flat-top white aster, broad-leaved cattail	speckled alder, red maple, red raspberry, white meadowsweet		
WL191	Yes	Yes	Partial	2,802.22	Treed Swamp	Basin	Histosol	30	saturation, high water table	fowl manna grass, cinnamon fern, bristly dewberry, fowl blue grass, northern starflower	red maple, black spruce, balsam fir, yellow birch	black spruce, yellow birch, red maple	
WL192	Yes	No	Partial	1,409.77	Shrub Swamp	Basin	Histosol	55	water marks, drainage patterns, surface soil cracks, saturation	Canada rush, nodding sedge, sensitive fern, Canada goldenrod, hairy flat-top white aster, common woolly bulrush, cinnamon fern, royal fern, red raspberry, bunchberry	speckled alder, red maple, black spruce, white meadowsweet, gray birch, mountain holly		<i>Sphagnum spp. sp.</i>
WL193	Yes	Yes	Full	921.42	Shrub Swamp	Basin	Depleted Matrix	35	surface water, saturation	cinnamon fern, sensitive fern, broad-leaved cattail, american burreed, slender rush, graceful sedge	speckled alder, balsam fir, mountain holly, red maple		road directly through the middle of the wetland, with culvert
WL194	Yes	No	Partial	329.08	Shrub Swamp	Basin	Histosol	20	saturation	arrow-leaved smartweed, sensitive fern, harlequin blue flag, broad-leaved cattail, bluejoint reed grass, common woolly bulrush, bristly dewberry	white meadowsweet, speckled alder, northern wild raisin		
WL195	No	Yes	Partial	36.73	Shrub Swamp	Basin	Histosol	20	saturation, standing water	tawny cottongrass, large small cranberry, bristly dewberry, Canada rush, common woolly bulrush, eastern eastern hay-scented fern	white meadowsweet, speckled alder, balsam fir	balsam fir	
WL196	Yes	Yes	Partial	1,467.57	Treed Swamp/ Shrub Swamp	Basin	Histosol	30	high water table, saturation	cinnamon fern, bunchberry, northern starflower, goldthread, eastern teaberry, three-seeded sedge	red maple, yellow birch, black spruce	red maple, yellow birch, black spruce	
WL197	Yes	Yes	Full	3,205.02	Shrub Swamp	Basin	Histosol	140	high water table, saturation	three-seeded sedge, nodding sedge, common woolly bulrush, creeping snowberry, slender rush	black spruce, speckled alder, balsam fir, red maple, gray birch, american mountain ash		
WL198	Yes	Yes	Full	1,915.19	Treed Swamp/ Shrub Swamp	Floodplain	Histosol	40	saturation, surface water, high water table	bluejoint reed grass, cinnamon fern, sensitive fern, Canada goldenrod	speckled alder		
WL199	Yes	Yes	Partial	23,613.77	Treed Swamp	Basin/ Floodplain	Histic Epipedon	120	high water table, saturation	tawny cottongrass, three-leaved false soloman's seal, bristly dewberry, sallow sedge, cinnamon fern	red maple, speckled alder, white meadowsweet, northern wild raisin		road on south side is submerged, upland inclusions south end taper off going north
WL200	Yes	Yes	Partial	5,338.38	Shrub Swamp	Basin	Histosol	40	high water table, surface water, saturation	bunchberry, creeping snowberry, three-seeded sedge, cinnamon fern, three-leaved false soloman's seal, pink lady's-slipper	black spruce, mountain holly, balsam fir, red maple		

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										HERBS	SHRUBS	TREES	
WL201	No	Yes	Partial	278.94	Treed Swamp	Basin	Histosol	80	saturation, surface water, high water table	necklace sedge, arrow-leaved smartweed	black spruce	black spruce	lots of dead trees, beaver dam
WL202	Yes	Yes	Partial	9,094.56	Treed Swamp	Basin	Histosol	10	surface water	tawny cottongrass, three-seeded sedge, bunchberry, northern starflower, cinnamon fern	black spruce, balsam fir	black spruce	along road large ditches/puddles
WL203	Yes	Yes	Partial	26,403.76	Shrub Swamp	Basin	Histosol	100	saturation	Canada manna grassbluejoint reed grass, sensitive fern, cinnamon fern, cyperuslike sedge, cinnamon fern	speckled alder, mountain holly, red maple, yellow birch, balsam fir		
WL204	Yes	Yes	Partial	20,674.73	Shrub Swamp	Basin	Histosol	140	high water table	necklace sedge, cinnamon fern, cyperuslike sedge, common marsh bedstraw, alternate-leaved dogwood	speckled alder, white meadowsweet		
WL205	Yes	Yes	Partial	7,944.51	Treed Swamp	Basin	Histosol	20	saturation, water stained leaves, drainage patterns	bluejoint reed grass, wild lily-of-the-valley, goldthread, sensitive fern, cinnamon fern, red maple, bristly dewberry, tawny cottongrass	speckled alder, red maple, mountain holly, white meadowsweet	balsam fir, red maple	<i>Sphagnum spp. sp.</i>
WL206	Yes	Yes	Full	369.59	Shrub Swamp	Basin	Histosol	40	saturation, surface soil cracks	rice cut grass, common woolly bulrush, arrow-leaved tearthumb, Canada goldenrod	speckled alder, red maple, mountain holly, white meadowsweet		
WL207	Yes	No	Partial	1,397.22	Treed Swamp/ Shrub Swamp	Basin	Histosol	40	saturation	yellow birch, Canada manna grassbluejoint reed grass	white meadowsweet, speckled alder, red maple		
WL208	Yes	Yes	Partial	4,248.08	Treed Swamp	Basin	Histosol	60	high water table, saturation	nodding trillium, cinnamon fern, sensitive fern, bunchberry, northern starflower	mountain holly, red maple, black spruce	black spruce, balsam fir	
WL209	Yes	Yes	Partial	17,052.13	Treed Swamp	Basin	Depleted Dark Surface	30	saturation, water stained leaves	woodland horsetail, common woolly bulrush, cinnamon fern, sensitive fern, northern starflower, goldthread,	sheep laurel, mountain holly, balsam fir, northern wild raisin, black spruce, red maple, yellow birch	black spruce	
WL210	Yes	Yes	Partial	1,776.67	Treed Swamp/ Shrub Swamp	Basin	Histosol	20	saturation, high water table	sensitive fern, cinnamon fern, wild lily-of-the-valley, northern starflower, woodland horsetail, three-seeded sedge	speckled alder, mountain holly, yellow birch, black spruce, red maple	black spruce, yellow birch, red maple	
WL211	Yes	Yes	Partial	2,770.83	Treed Swamp/ Shrub Swamp	Basin	Histosol	20	saturation, water stained leaves	cinnamon fern, sensitive fern, woodland horsetail, carex spp., bunchberry	speckled alder, black spruce		
WL212	Yes	Yes	Partial	2,913.65	Shrub Swamp	Basin	Histosol	40	saturation	sensitive fern, cinnamon fern, tawny cottongrass, common woolly bulrushbluejoint reed grass	speckled alder, mountain holly, red maple, spruce, common Labrador tea, sheep laurel		
WL213	Yes	Yes	Partial	7,464.74	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	high water table	bluejoint reed grass, new york fern, woodland horsetail	speckled alder		
WL214	Yes	Yes	Partial	11,395.20	Treed Swamp/ Shrub Swamp	Basin	Histic Epipedon	20	high water table	sensitive fern, new york fernbluejoint reed grass, cinnamon fern, common woolly bulrush	red maple, rhodora	red maple, paper birch, black spruce, trembling aspen, balsam fir	Sloped Treed Swamp intercepted by man-made ditch along field
WL215	No	Yes	Partial	93.86	Shrub Swamp	Floodplain	Histic Epipedon	25	surface water, high water table	sensitive fern, cinnamon fern, necklace sedge, water horsetail, bunchberry, northern starflower	speckled alder, red maple	red maple	nearby watercourse serves as a boundary of the wetland; POND
WL216	Yes	Yes	Partial	6,646.45	Treed Swamp/ Shrub Swamp	Basin	Histosol	140	high water table	sensitive fern, cinnamon fern, necklace sedge, wood water horsetail, bunchberry, northern starflower	speckled alder, red maple	red maple	unable to transit through

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										HERBS	SHRUBS	TREES	
WL217	Yes	Yes	Partial	15,822.39	Treed Swamp	Basin	Histosol	20	saturation, waterstained leaves, water marks, drainage patterns	swamp beggarticks, arrow-leaved smartweed, fowl blue grass	speckled alder	red maple, balsam fir	
WL218	Yes	Yes	Partial	468.80	Marsh	Basin	Redox Depressions	n/a	surface soil cracks, water stained leaves	Canada rush, common woolly bulrush, sallow sedge, common woolly bulrush, rough-stemmed goldenrod, broad-leaved cattail			Wetland is a bowl/sink with a slope uphill perimeter
WL219	Yes	Yes	Partial	25,618.21	Shrub Swamp/ Marsh	Basin	Histic Epipedon	20	surface water	woodland horsetail, sensitive fern, yellow birch, slender sedge	speckled alder		<i>Sphagnum spp. sp.</i>
WL220	Yes	Yes	Partial	17,862.70	Shrub Swamp	Basin	Histic Epipedon	20	high water table	sensitive fern, interrupted fern, common woolly bulrush	speckled alder		
WL221	Yes	Yes	Partial	9,446.85	Shrub Swamp	Basin	Histic Epipedon	20	surface water, high water table	woodland horsetail, sensitive fern, yellow birch, slender sedge	speckled alder		<i>Sphagnum spp. sp.</i>
WL222	Yes	Yes	Partial	12,834.37	Shrub Swamp	Basin	Histic Epipedon	20	high water table	sensitive fern, interrupted fern, common woolly bulrush, tawny cottongrass, nodding sedge	northern wild raisin, speckled alder, red maple		
WL223	Yes	Yes	Partial	2,148.11	Treed Swamp/ Shrub Swamp	Basin	Histosol	140	high water table	wood water horsetail, sensitive fern, yellow birch, slender sedge, Canada goldenrod,	speckled alder, white meadowsweet, red maple, black spruce	black spruce	lots of dead trees
WL224	Yes	Yes	Partial	5,592.37	Shrub Swamp	Basin	Depleted Dark Surface	n/a	saturation	yellow birch, wood water horsetail, sensitive fern, Canada goldenrod, bunchberry	black chokeberry, gray birch, speckled alder		
WL225	Yes	Yes	Full	6,132.67	Shrub Swamp	Basin	Depleted Dark Surface	n/a	saturation	rice cut grass, wild sarsaparilla, wood water horsetail, arrow-leaved tearthumb, sallow sedge, bladder sedge	black chokeberry, speckled alder, black spruce		
WL226	No	Yes	Full	1,436.62	Treed Swamp	Basin	Histosol	40	high water table	bunchberry, northern starflower, goldthread, wild lily-of-the-valley, star sedge, bluejoint reed grass, bristly dewberry	speckled alder, balsam fir	balsam fir	<i>Sphagnum spp. sp.</i>
WL227	Yes	Yes	Partial	23,366.92	Shrub Swamp	Basin	Histosol	30	high water table	rhodora, common Labrador tea, leatherleaf	mountain holly, white spruce, tamarack, northern wild raisin		
WL228	Yes	Yes	Partial	68.86	Shrub Swamp	Basin	Histosol	30	surface water, water stained leaves	rhodora, common Labrador tea, leatherleaf	mountain holly, white spruce, tamarack, northern wild raisin		
WL229	Yes	Yes	Partial	4,649.54	Shrub Swamp	Basin	Histosol	n/a	intermittent surface water, water stained leaves	broad-leaved cattail, reed canary grass, hairy flat-top white aster, common woolly bulrush, wild oats, Canada manna grass, Canada goldenrod, sensitive fern, carex spp., marsh st. john's wort, equisetum spp.	white meadowsweet, speckled alder		
WL230	Yes	Yes	Partial	10,005.87	Treed Swamp/ Shrub Swamp	Floodplain	Histosol	60	SW, WSL, DP	sensitive fern, cinnamon fern, swamp red currant, Canada goldenrod, spotted jewelweed, rough-stemmed goldenrod, goldthread, wild sarsaparilla, red raspberry, awl-fruited sedge, wood water horsetail, fowl manna grass	speckled alder, black chokeberry	red maple	

Table E2. Watercourse Characteristics Summary

Watercourse Crossing ID	Topographical Name (if present)	Watercourse Classification	Present in L8005 Right of Way (Y/N)	Present in L8001 Right of Way (Y/N)	Direction of Flow	Channel Depth (cm)	Channel Width (cm)	Water Depth (cm)	Water Width (cm)	Substrate (Boulder, Cobble, Gravel, Sand, Fines, Muck, Debris)	Instream Cover				Bank Notes	Riparian Habitat	Notes
											Small Woody Debris	Large Woody Debris	Undercut Banks	Instream Vegetation			
WC1		Intermittent	Y	Y	S	20	200	0	0	Fines/Muck	Y		Y	Y	eroding undercut banks	herbaceous, shrub, softwood, hardwood, softwood	
WC2		Intermittent	Y	Y	W	30	100	0	0	Fines/Muck	Y		N		banks very sloped	herbaceous, hardwood	no real banks to define channel, very sloped, many trees on either side
WC3		Ephemeral	Y	Y	W	10	30	0	0	Fines/Muck	Y		Y		banks in good condition	herbaceous, graminoids, hardwood, softwood	fish bearing, lots of algae in water
WC4		Ephemeral	Y	Y	W	30	30	0	0	Fines/Muck	Y		Y		good condition	alders, graminoids, hardwood, softwood	fish bearing, lots of algae in water
WC5		Intermittent	N	Y	SE	25	100	0	0	Fines/Muck	Y		N		sloped	softwood, hardwood, herbaceous	mosses on rocky bottom, ends in surface drainage
WC6		Large Permanent	Y	Y	E	20	600	20	580	Fine	Y		N	Y	sloped banks	shrubs, graminoids, herbaceous	riffles and fish bearing, ending in a wetland outside boundary, connected to AD034
WC7		Intermittent	Y	Y	N	25	100	0	0	Cobble	Y		N		undercut banks	alders, herbaceous, graminoid	some blockages, ends in large open marsh wetland at boundary
WC8	McElmon Brook	Small Permanent	Y	Y	NE	150	600	15	200	Cobble/Boulders	Y		Y		well defined	undercut banks, shrubs and trees on bank	
WC9		Small Permanent	Y	Y	N	100	300	10	100	Gravel/Fines	Y		Y		lots of undercut and eroding banks	alders, herbaceous, graminoids, hardwood	culvert under road at 1321
WC10	Seaman Brook	Small Permanent	Y	Y	NW	150	700	15	500	Bedrock	Y			Y		herbaceous, graminoid, shrub, softwood, hardwood	Banks full of roots
WC11	Seaman Brook	Small Permanent	Y	Y	W	150	700	15	500	Bedrock	Y			Y		shrub, hardwood, softwood	Steep banks, small fringe wet area
WC12		Ephemeral	Y	N	N	50	100	0	0	Gravel/Cobble	Y			Y		herbaceous, graminoid, shrub	Most likely just a ditch, clay banks
WC13	Seaman Brook	Large Permanent	Y	Y	N	100	400	70	300	Cobble/Fines/ Gravel	Y			Y		herbaceous, graminoid, shrub	substrate could not be determined due to depth/murky
WC14	Purdy Brook	Large Permanent	Y	Y	SW	250	500	200	400	Fines/Muck	Y			Y		herbaceous, shrub, softwood, hardwood	
WC15		Small Permanent	Y	Y	S	100	300	0	0	Cobbles/Gravel	Y	Y		Y		shrub, hardwood (dominantly alder)	
WC16		Small Permanent	Y	Y	S	50	100	0	0	Cobble/Gravel	Y	Y	Y		some undercut banks	alders (some roots in the watercourse)	
WC17		Intermittent	Y	Y	W	200	300	0	0	Cobble/Gravel	Y		Y	Y	some undercut sections	fringe wetland, herbaceous, shrub, softwood, hardwood	
WC18		Intermittent	Y	Y	E	50	100	0	0	Fines/Muck	Y			Y		herbaceous, shrub, hardwood, softwood	
WC19		Intermittent	Y	Y	E	50	150	0	0	Sand	Y		Y	Y	poorly, confined sloping banks in some sections; well defined, undercut in other sections	shrubs, graminoids, herbaceous, hardwood, softwood	some instream mosses
WC20		Intermittent	Y	Y	E	40	330	35	300	Cobble/Muck/Fines	Y				sloping banks	herbaceous, hardwood	
WC21		Intermittent	Y	Y	N	70	300	0	0	Gravel/Rubble	Y (abundant)	Y (abundant)	Y			graminoid	
WC22		Ephemeral	Y	Y	N	100	200	0	0	Gravel/ Fines	Y	Y	Y		good condition	hardwood, softwood	
WC23		Ephemeral	Y	Y	E	50	120	0	0	Dominantly cobble	Y		Y			herbaceous, graminoids, shrubs, trees (graminoids dominant)	
WC24		Intermittent	Y	Y	NE	40	100	10	30	Dominantly cobble	Y		Y		good condition	graminoids, hardwood, softwood	Some roots extending into watercourse
WC25		Ephemeral	Y	Y	NE	20	75	20	75	Dominantly fines/muck	Y		Y			graminoids	fish bearing
WC26		Ephemeral	Y	N	N	20	50	10	20	Dominantly Sands and Fines/Muck	Y			Y		herbaceous, graminoid, shrub, softwood, hardwood	Stream transitions from rubble to fines
WC27	Crowley Brook	Small Permanent	Y	Y	W	30	130	30	130	Cobble, Gravel	Y				little in the way of banks	hardwood, softwood	601 enters wetland
WC28		Ephemeral	Y	Y	S	50	40	10	30	Dominantly Cobble	Y			Y	sloped, poorly confined	herbaceous, graminoid	Wetland in the middle
WC29	Drennan Brook	Intermittent	Y	Y	E	50	100	0	0	Dominantly Fines/Muck	Y		Y		some undercut banks	graminoid, shrub, softwood, hardwood	Empties into Folly River
WC30		Intermittent	Y	Y	NE	30	100	0	0	Cobble/Gravel	Y				very shallow banks	herbaceous, hardwood, softwood	
WC31		Intermittent	Y	Y	E					Fines/Muck	Y		Y		some undercutting	hardwood, softwood	

Table E2. Watercourse Characteristics Summary

Watercourse Crossing ID	Topographical Name (if present)	Watercourse Classification	Present in L8005 Right of Way (Y/N)	Present in L8001 Right of Way (Y/N)	Direction of Flow	Channel Depth (cm)	Channel Width (cm)	Water Depth (cm)	Water Width (cm)	Substrate (Boulder, Cobble, Gravel, Sand, Fines, Muck, Debris)	Instream Cover				Bank Notes	Riparian Habitat	Notes
											Small Woody Debris	Large Woody Debris	Undercut Banks	Instream Vegetation			
WC32	South Drennan Broo	Intermittent	Y	Y	W	50	200	0	0	Dominantly Fines/Muck	Y				hardwood, softwood		
WC33		Ephemeral	Y	Y	E	40	150	0	0	Dominantly Fines/Muck and Sand	Y		Y		hardwood, softwood		
WC34		Intermittent	Y	Y	W	30	75	0	0	Cobble/Gravel	Y				hardwood, herbaceous, softwood		
WC35		Ephemeral	Y	N	N	30	50	0	0	Dominantly Cobble	Y			steep, rocky banks	graminoid, shrub, softwood, hardwood		
WC36	Snider Brook	Ephemeral	Y	Y	NW	40	150	0	0	Dominantly Cobble	Y		Y	long sloping banks	alder, graminoid, herbaceous, hardwood, softwood	fish bearing	
WC37		Ephemeral	Y	Y	NE	50	200	0	0	Dominantly Cobble	Y		Y	some undercut banks	hardwood, softwood, graminoids		
WC38		Intermittent	Y	Y	W	60	100	0	0	Gravel/Cobble	Y	Y	Y	some muddy sections, some undercut sections	alders, graminoids, hardwood, softwood		
WC39	Smith Brook	Small Permanent	Y	Y	N	30	200	10	180	Cobble/Gravel	Y		Y	good condition	hardwood, shrub	crosses atv trail at the boundary via culvert, empties into the debert river at 1297	
WC40		Intermittent	Y	Y	SE	10	100	0	0	Fines/Muck	Y			wooded banks	hardwood, herbaceous		
WC41		Small Permanent	Y	Y	NW	25	60	10	60	Rubble/Boulder	Y	Y			alders, graminoids, herbaceous		
WC42		Intermittent	Y	Y	E	30	200	0	0	Rubble	Y			tons of alders with very little space to navigate		Joins with MC029, fish bearing	
WC43		Small Permanent	Y	Y	SW	60	120	30	120	Cobble/ Rubble/ Gravel	Y		Y	mucky	lots of alders and other forbs	fish bearing with freshwater clams and finfish, joins with MC029	
WC44		Small Permanent	Y	Y	SW	15	100	20	90	Cobble/Gravel	Y			sloping banks	hardwood, sofwood	culvert under road connected to wetland	
WC45		Intermittent	Y	Y	E	60	100	10	80	Cobble/ Bedrock/ Gravel	Y		Y		herbaceous, graminoid, shrubs	ends in wetland	
WC46		Ephemeral	Y	Y	NE	40	400	10	30	Dominantly Rubble	Y		Y		herbaceous, graminoid		
WC47		Intermittent	Y	Y	NE	40	50	0	0	Cobble/Gravel/Fines	Y		Y		graminoid		
WC48		Small Permanent	Y	Y	NE	20	100	10	80	Cobble/Gravel	Y		Y		Herbaceous, graminoid, shrub, softwood, hardwood		
WC49		Intermittent	Y	N	NE	10	60	0	0	Cobble	Y	Y	Y		Herbaceous, graminoid, shrub, softwood, hardwood		
WC50		Ephemeral	Y	Y	NE	10	60	0	0	Cobble	Y		Y		Herbaceous, graminoid, shrub, hardwood		
WC51		Small Permanent	Y	Y	SW	60	200	20	100	Gravel	Y	Y	Y		Herbaceous, graminoid, shrub, hardwood		
WC52		Ephemeral	Y	Y	S	20	100	0	0	Gravel/Fines	Y		Y	significant undercutting in places, with roots exposed	hardwood, alders, herbaceous	potential turtle habitat, fish bearing	
WC53		Ephemeral	Y	Y	NE	40	100	0	0	Rubble/Cobble	Y		Y		alder, graminoid, herbaceous	fish bearing, lots of algae in water	
WC54		Ephemeral	Y	Y	S	30	180	0	0	Rubble/cobble/fines	Y	Y			herbaceous, graminoid, shrub	Fishing bearing, observed, Beaver dam	
WC55		Intermittent	Y	N	N	20	30	0	0	Fines/Muck	Y		Y		herbaceous, graminoid, shrub	fish bearing	
WC56		Intermittent	Y	N	W	30	200	5	30	Rubble/Cobble	Y		Y		Herbaceous, graminoid, Shrub, softwood, hardwood	Very dry; dissappears	
WC57		Intermittent	Y	N	E	30	400	0	0	Fines/Cobble/Roots	Y		Y		Herbaceous, graminoid, Shrub, softwood, hardwood		
WC58		Small Permanent	Y	Y	S	100	300	15	100	Cobble/Gravel	Y		Y		herbaceous, graminoid, shrub		
WC59		Small Permanent	Y	Y	S	100	500	10	100	Cobble/Gravel	Y	Y	Y		herbaceous, graminoid, shrub		
WC60		Intermittent	Y	N	S	30	150	0	0	Cobble/Gravel	Y	Y	Y		herbaceous, graminoid, shrub	Drainage Ditch	
WC61	Pine Brook	Small Permanent	Y	Y	N	60	500	25	300	Cobble	Y		Y		herbaceous, graminoid, shrub	Buried Drainage	
WC62	Totten Brook	Small Permanent	Y	Y	S	100	500	40	400	Cobble/Gravel to Sand/Fine	Y		Y		herbaceous, graminoid, shrub	No Photo	
WC63	Debert River	Large Permanent	Y	Y	S	100	2500	100	2400	Bedrock/Gravel/ Cobble	Y		Y		herbaceous, graminoid, shrub	Mostly Dry	

Table E2. Watercourse Characteristics Summary

Watercourse Crossing ID	Topographical Name (if present)	Watercourse Classification	Present in L8005 Right of Way (Y/N)	Present in L8001 Right of Way (Y/N)	Direction of Flow	Channel Depth (cm)	Channel Width (cm)	Water Depth (cm)	Water Width (cm)	Substrate (Boulder, Cobble, Gravel, Sand, Fines, Muck, Debris)	Instream Cover				Bank Notes	Riparian Habitat	Notes
											Small Woody Debris	Large Woody Debris	Undercut Banks	Instream Vegetation			
WC64		Intermittent	Y	Y	W	50	100	10	25	Cobble/Boulders	Y	Y		Y		herbaceous, graminoid, shrub	Mostly Dry
WC65		Small Permanent	Y	Y	W	50	100	5	40	Cobble	Y	Y		Y		Herbaceous, graminoid, shrub, softwood, hardwood	Beaver Dam
WC66		Small Permanent	Y	Y	NE	75	50	20	40	Dominantly Fines/Muck	Y			Y		Herbaceous, graminoid, shrub, softwood, hardwood	Beaver Dam
WC67		Small Permanent	N	Y	N	100	180	50	170	Fines/Muck	Y			Y		herbaceous, graminoid, shrub	
WC68		Small Permanent	Y	Y	SE	30	150	15	150	Fines/Muck	Y		Y		minor undercut banks, eroding in some places	herbacous, shrub	
WC69		Small Permanent	Y	Y	S	70	150	20	150	Gravel/Cobble	Y				eroding in some places	graminoid, softwood, hardwood	
WC70	Lightbody Brook	Small Permanent	Y	Y	S	1	400	20	200	Fines/Muck	Y			Y		herbaceous, graminoid, shrub	
WC71		Intermittent	Y	Y	N	40	100	5	10	Fines/Muck	Y			Y		herbaceous, graminoid, shrub	
WC72	Beaver Brook	Small Permanent	Y	Y	N	50	300	20	250	Cobble/Gravel/Debris	Y			Y		shrub	Joins to main channel (Baird Brook)
WC73		Small Permanent	Y	Y	N	50	200	20	200	Fines/Muck	Y		Y	Y		herbaceous, graminoid, shrubs	Low water level
WC74	Beaver Book	Small Permanent	Y	Y	NE	40	250	20	200	Fines/Muck	Y			Y	very overgrown banks	shrub, graminoid, herbaceous	
WC75	Baird Brook	Small Permanent	Y	Y	S	45	150	0	100	Fines/Muck	Y			Y		herbaceous, graminoid, shrub	
WC76		Small Permanent	N	Y	S	50	100	20	75	Fines/Muck	Y				Muddy Bank	shrub, herbaceous	
WC77		Small Permanent	Y	Y	NE	200	100	30	50	Fines/Muck	Y	Y		Y		herbaceous, graminoid, shrub	
WC78		Small Permanent	Y	Y	SW	100	150	30	75	Fines/Muck				Y		herbaceous, graminoid, shrub	
WC79	South Brook	Small Permanent	Y	Y	N	75	150	20	100	Fines/Muck	Y	Y		Y		herbaceous, graminoid, shrub	

Table E3: Master Plant List

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Common Name	Scientific Name	SARA Status	COSEWIC Status	NSESA Status	NS S-Rank
Alternate-leaved dogwood	<i>Cornus alternifolia</i>	Not Listed	Not Listed	Not Listed	S5
American burreed	<i>Sparganium americanum</i>	Not Listed	Not Listed	Not Listed	S5
American mountain ash	<i>Sorbus americana</i>	Not Listed	Not Listed	Not Listed	S5
American water horehound	<i>Lycopus americanus</i>	Not Listed	Not Listed	Not Listed	S5
Arrow-leaved smartweed	<i>Persicaria sagittata</i>	Not Listed	Not Listed	Not Listed	SNR
Arrow-leaved tearthumb	<i>Polygonum sagittatum</i>	Not Listed	Not Listed	Not Listed	S5
Black spruce	<i>Picea mariana</i>	Not Listed	Not Listed	Not Listed	S5
Bluejoint reed grass	<i>Calamagrostis canadensis</i>	Not Listed	Not Listed	Not Listed	S5
Bog aster	<i>Oclemena nemoralis</i>	Not Listed	Not Listed	Not Listed	S5
Bracken fern	<i>Pteridium aquilinum</i>	Not Listed	Not Listed	Not Listed	S5
Bristly dewberry	<i>Rubus hispidus</i>	Not Listed	Not Listed	Not Listed	S5
Broad-fruited burreed	<i>Sparganium eurycarpum</i>	Not Listed	Not Listed	Not Listed	S4
Broad-leaved cattail	<i>Typha latifolia</i>	Not Listed	Not Listed	Not Listed	S5
Broom sedge	<i>Carex scoparia</i>	Not Listed	Not Listed	Not Listed	S5
Bunchberry	<i>Cornus canadensis</i>	Not Listed	Not Listed	Not Listed	S5
Canada goldenrod	<i>Solidago canadensis</i>	Not Listed	Not Listed	Not Listed	S4S5
Canada manna grass	<i>Glyceria canadensis</i>	Not Listed	Not Listed	Not Listed	S5
Canada rush	<i>Juncus canadensis</i>	Not Listed	Not Listed	Not Listed	S5
Canada serviceberry	<i>Amelanchier canadensis</i>	Not Listed	Not Listed	Not Listed	S4S5
Canada violet	<i>Viola canadensis</i>	Not Listed	Not Listed	Not Listed	SH
Chokecherry	<i>Prunus virginiana</i>	Not Listed	Not Listed	Not Listed	S5
Cinnamon fern	<i>Osmunda cinnamomea</i>	Not Listed	Not Listed	Not Listed	S5
Common boneset	<i>Eupatorium perfoliatum</i>	Not Listed	Not Listed	Not Listed	S5
Common Labrador tea	<i>Ledum groenlandicum</i>	Not Listed	Not Listed	Not Listed	S5
Common lady fern	<i>Athyrium filix-femina</i>	Not Listed	Not Listed	Not Listed	S5
Common marsh bedstraw	<i>Galium palustre</i>	Not Listed	Not Listed	Not Listed	S5
Common tall manna grass	<i>Glyceria grandis</i>	Not Listed	Not Listed	Not Listed	S4S5
Common woolly bulrush	<i>Scirpus cyperinus</i>	Not Listed	Not Listed	Not Listed	S5
Creeping snowberry	<i>Gaultheria hispidula</i>	Not Listed	Not Listed	Not Listed	S5
Cyperuslike sedge	<i>Carex pseudocyperus</i>	Not Listed	Not Listed	Not Listed	S4S5
Eastern hay-scented fern	<i>Dennstaedtia punctilobula</i>	Not Listed	Not Listed	Not Listed	S5
Eastern teaberry	<i>Gaultheria procumbens</i>	Not Listed	Not Listed	Not Listed	S5
Eastern white pine	<i>Pinus strobus</i>	Not Listed	Not Listed	Not Listed	S5
Fowl blue grass	<i>Poa palustris</i>	Not Listed	Not Listed	Not Listed	S5
Fowl manna grass	<i>Glyceria striata</i>	Not Listed	Not Listed	Not Listed	S5
Fringed sedge	<i>Carex crinita</i>	Not Listed	Not Listed	Not Listed	S5
Glossy buckthorn	<i>Frangula alnus</i>	Not Listed	Not Listed	Not Listed	SNA
Goldthread	<i>Coptis trifolia</i>	Not Listed	Not Listed	Not Listed	S5
Graceful sedge	<i>Carex gracillima</i>	Not Listed	Not Listed	Not Listed	S4S5
Gray birch	<i>Betula populifolia</i>	Not Listed	Not Listed	Not Listed	S5
Hairy flat-top white aster	<i>Doellingeria umbellata</i>	Not Listed	Not Listed	Not Listed	S5
Interrupted fern	<i>Osmunda claytoniana</i>	Not Listed	Not Listed	Not Listed	S5
Lance-leaved aster	<i>Symphotrichum lanceolatum</i>	Not Listed	Not Listed	Not Listed	S4S5

Table E3: Master Plant List

Project #20-7464

Common Name	Scientific Name	SARA Status	COSEWIC Status	NSESA Status	NS S-Rank
Large cranberry	<i>Vaccinium macrocarpon</i>	Not Listed	Not Listed	Not Listed	S5
Large purple fringed orchid	<i>Platanthera grandiflora</i>	Not Listed	Not Listed	Not Listed	S3
Late lowbush blueberry	<i>Vaccinium angustifolium</i>	Not Listed	Not Listed	Not Listed	S5
Leatherleaf	<i>Chamaedaphne calyculata</i>	Not Listed	Not Listed	Not Listed	S5
Marsh st. john's wort	<i>Triadenum virginicum</i>	Not Listed	Not Listed	Not Listed	S5
Mountain holly	<i>Nemopanthus mucronatus</i>	Not Listed	Not Listed	Not Listed	S5
Mountain maple	<i>Acer spicatum</i>	Not Listed	Not Listed	Not Listed	S5
Narrow-leaved cottongrass	<i>Eriophorum angustifolium</i>	Not Listed	Not Listed	Not Listed	S5
Narrow-leaved spring beauty	<i>Claytonia virginica</i>	Not Listed	Not Listed	Not Listed	SNA
Necklace sedge	<i>Carex projecta</i>	Not Listed	Not Listed	Not Listed	S5
New York fern	<i>Thelypteris noveboracensis</i>	Not Listed	Not Listed	Not Listed	S5
Nodding sedge	<i>Carex gynandra</i>	Not Listed	Not Listed	Not Listed	S5
Nodding trillium	<i>Trillium cernuum</i>	Not Listed	Not Listed	Not Listed	S4
Northern starflower	<i>Trientalis borealis</i>	Not Listed	Not Listed	Not Listed	S5
Northern wild raisin	<i>Viburnum nudum</i>	Not Listed	Not Listed	Not Listed	S5
Nova scotia agalinis	<i>Agalinis neoscotica</i>	Not Listed	Not Listed	Not Listed	S3S4
Pale bog laurel	<i>Kalmia polifolia</i>	Not Listed	Not Listed	Not Listed	S5
Paper birch	<i>Betula papyrifera</i>	Not Listed	Not Listed	Not Listed	S5
Pearly everlasting	<i>Anaphalis margaritacea</i>	Not Listed	Not Listed	Not Listed	S5
Pink lady's-slipper	<i>Cypripedium acaule</i>	Not Listed	Not Listed	Not Listed	S5
Pussy willow	<i>Salix discolor</i>	Not Listed	Not Listed	Not Listed	S5
Red maple	<i>Acer rubrum</i>	Not Listed	Not Listed	Not Listed	S5
Red raspberry	<i>Rubus idaeus</i>	Not Listed	Not Listed	Not Listed	S5
Red spruce	<i>Picea rubens</i>	Not Listed	Not Listed	Not Listed	S5
Reed canary grass	<i>Phalaris arundinacea</i>	Not Listed	Not Listed	Not Listed	S5
Rhodora	<i>Rhododendron canadense</i>	Not Listed	Not Listed	Not Listed	S5
Rice cut grass	<i>Leersia oryzoides</i>	Not Listed	Not Listed	Not Listed	S5
Rough-stemmed goldenrod	<i>Solidago rugosa</i>	Not Listed	Not Listed	Not Listed	S5
Round-leaved sundew	<i>Drosera rotundifolia</i>	Not Listed	Not Listed	Not Listed	S5
Royal fern	<i>Osmunda regalis</i>	Not Listed	Not Listed	Not Listed	S5
Sallow sedge	<i>Carex lurida</i>	Not Listed	Not Listed	Not Listed	S5
Sensitive fern	<i>Onoclea sensibilis</i>	Not Listed	Not Listed	Not Listed	S5
Sheep laurel	<i>Kalmia angustifolia</i>	Not Listed	Not Listed	Not Listed	S5
Slender rush	<i>Juncus tenuis</i>	Not Listed	Not Listed	Not Listed	S5
Slender cottongrass	<i>Eriophorum gracile</i>	Not Listed	Not Listed	Not Listed	S2S3
Slender sedge	<i>Carex lasiocarpa</i>	Not Listed	Not Listed	Not Listed	S5
Small cranberry	<i>Vaccinium oxycoccos</i>	Not Listed	Not Listed	Not Listed	S5
Soft rush	<i>Juncus effusus</i>	Not Listed	Not Listed	Not Listed	S5
Speckled alder	<i>Alnus incana</i>	Not Listed	Not Listed	Not Listed	S5
Spotted jewelweed	<i>Impatiens capensis</i>	Not Listed	Not Listed	Not Listed	S5
Spotted joe-pye-weed	<i>Eupatorium maculatum</i>	Not Listed	Not Listed	Not Listed	S5
Star sedge	<i>Carex echinata</i>	Not Listed	Not Listed	Not Listed	S5
Steeplebush	<i>Spiraea tomentosa</i>	Not Listed	Not Listed	Not Listed	S5

Table E3: Master Plant List

Project #20-7464

Common Name	Scientific Name	SARA Status	COSEWIC Status	NSESA Status	NS S-Rank
Sugar maple	<i>Acer saccharum</i>	Not Listed	Not Listed	Not Listed	S4S5
Swamp beggarticks	<i>Bidens discoidea</i>	Not Listed	Not Listed	Not Listed	SH
Swamp red currant	<i>Ribes triste</i>	Not Listed	Not Listed	Not Listed	S4
Tamarack	<i>Larix laricina</i>	Not Listed	Not Listed	Not Listed	S5
Tawny cottongrass	<i>Eriophorum virginicum</i>	Not Listed	Not Listed	Not Listed	S5
Three-leaved false soloman's seal	<i>Maianthemum trifolium</i>	Not Listed	Not Listed	Not Listed	S5
Three-seeded sedge	<i>Carex trisperma</i>	Not Listed	Not Listed	Not Listed	S5
Trembling aspen	<i>Populus tremuloides</i>	Not Listed	Not Listed	Not Listed	S5
Tussock sedge	<i>Carex stricta</i>	Not Listed	Not Listed	Not Listed	S5
Twinflower	<i>Linnaea borealis</i>	Not Listed	Not Listed	Not Listed	S5
Velvet-leaved blueberry	<i>Vaccinium myrtilloides</i>	Not Listed	Not Listed	Not Listed	S5
Water horsetail	<i>Equisetum fluviatile</i>	Not Listed	Not Listed	Not Listed	S5
White meadowsweet	<i>Spiraea alba</i>	Not Listed	Not Listed	Not Listed	S5
White spruce	<i>Picea glauca</i>	Not Listed	Not Listed	Not Listed	S5
Whorled wood aster	<i>Oclemena acuminata</i>	Not Listed	Not Listed	Not Listed	S5
Wild lily-of-the-valley	<i>Maianthemum canadense</i>	Not Listed	Not Listed	Not Listed	S5
Wild oats	<i>Avena fatua</i>	Not Listed	Not Listed	Not Listed	SNA
Wild sarsaparilla	<i>Aralia nudicaulis</i>	Not Listed	Not Listed	Not Listed	S5
Wild strawberry	<i>Fragaria virginiana</i>	Not Listed	Not Listed	Not Listed	S5
Woodland horsetail	<i>Equisetum sylvaticum</i>	Not Listed	Not Listed	Not Listed	S6
Yellow birch	<i>Betula alleghaniensis</i>	Not Listed	Not Listed	Not Listed	S5
Yellow ladies' tresses	<i>Spiranthes ochroleuca</i>	Not Listed	Not Listed	Not Listed	S3
Yellow sedge	<i>Carex flava</i>	Not Listed	Not Listed	Not Listed	S5

APPENDIX F
ELECTRONIC DATA GLOSSARY

**20-7464 NSP Transmission Line
Wetland and Watercourse Delineation
Geodatabase File Descriptions**

Spatial Data File Descriptions

All shapefiles can be found in the NSP Wetland and Watercourse Results geodatabase (20-7464_NSP_TransmissionLine.gdb). A description of the shapefiles, and field names are presented below.

SHAPEFILES:

Dataset	Wetland_Field	
Feature Type	Polygon	
Location	20-7464_NSP_TransmissionLine.gdb	
Attributes	Attribute Field Name	Description
	FID	Unique ID
	COUNT	Sort Wetland, West to East
	WL_ID	Wetland ID
	ROW_L8005	Wetland existing in proposed Transmission line L8005 ROW. Y – Yes N – No
	ROW_L8001	Wetland existing in Transmission line L8001 ROW. Y – Yes N – No
	Partial_Full	Full or partial wetland delineation. Whether the wetland delineation is the whole wetland or partial wetland: Full Partial
	Area	Area of Wetland (m ²)
	Type	Wetland Type: Treed Swamp Shrub Swamp Bog Fen Bog
	Landform	Basin Flat Slope Floodplain Fringe
	Soil	Soil descriptions based on hydric soil indicators
	Substrate	Substrate Depth - Maximum recorded substrate depth in centimetres. 140 – Maximum depth available in the field 9999 – No Substrate depth recorded
	Surf_Hydro	Surficial Hydrology: Surface Water High Water Table

Dataset	Wetland_Field	
Feature Type	Polygon	
Location	20-7464_NSP_TransmissionLine.gdb	
		Saturation Water Marks Sediment Deposits Water Stained Leaves Drainage Patterns Surface Soil Cracks Hydrogen Sulfide Odor
	Herbs	List of identified herbaceous Species in wetland
	Shrubs	List of identified shrub Species in wetland
	Trees	List of identified treed Species in wetland
	Photo	Photo of the wetland: Y – Yes N – No
	Notes	Field Notes describing the wetland

Dataset	Watercourse_Field	
Feature Type	Polyline	
Location	20-7464_NSP_TransmissionLine.gdb	
	Attribute Field Name	Description
	FID	Unique ID
	COUNT	Sort Watercourse, West to East
	WC_ID	Watercourse ID
	T_Name	Topographic Name
	Class	Watercourse Classification: Large Permanent Small Permanent Intermittent Ephemeral
	ROW_L8005	Watercourse existing in proposed Transmission line L8005 ROW. Y – Yes N – No
	ROW_L8001	Watercourse existing in Transmission line L8001 ROW. Y – Yes N – No
	Direction	Direction of watercourse. If no direction was recorded or observed, elevations were used to apply the direction of watercourse
	Channel_W	Maximum channel width measured in centimetres
	Channel_D	Maximum channel depth measured in centimetres
	Water_W	Maximum water width measured in centimetres
	Water_D	Maximum water depth measured in centimetres
	S_Type	Substrate Type: Bedrock Boulder (>25cm) Rubble (14 – 25 cm) Cobble (3 – 13 cm) Gravel (2 mm – 3 cm) Sand (0.06 – 2 mm) Fines/Muck (<0.06 mm)
	SmWood_D	Small Woody Debris Overhang Present: Y – Yes N – No Blank – Unidentified
	LrgWood_D	Large Woody Debris Overhang Present: Y – Yes

Dataset	Watercourse_Field	
Feature Type	Polyline	
Location	20-7464_NSP_TransmissionLine.gdb	
		N – No Blank – Unidentified
	UC_Bank	Undercut Banks Present: Y – Yes N – No Blank – Unidentified
	Instream_V	Instream Vegetation Present: Y – Yes N – No Blank – Unidentified
	Bank_Notes	Description of watercourse banks
	Riparian_H	Dominant Riparian Habitat: Herbaceous Graminoids Shrub Softwood Hardwood
	Photo	Photos associated with the watercourse. See photo directory with corresponding WC_ID: Photo Captured: Y – Yes N – No
	Notes	Field Notes describing the watercourse

Dataset	Rare_Species	
Feature Type	Point	
Location	20-7464_NSP_TransmissionLine.gdb	
	Attribute Field Name	Description
	FID	Unique ID
	Name	Rare Species name identified in the field

Dataset	MaxSubstrate_Depth_Locations	
Feature Type	Point	
Location	20-7464_NSP_TransmissionLine.gdb	
	Attribute Field Name	Description
	FID	Unique ID
	WL_ID	Wetland ID associated with the maximum substrate depth recorded in the field
	Substrate	Maximum substrate depth recorded location