

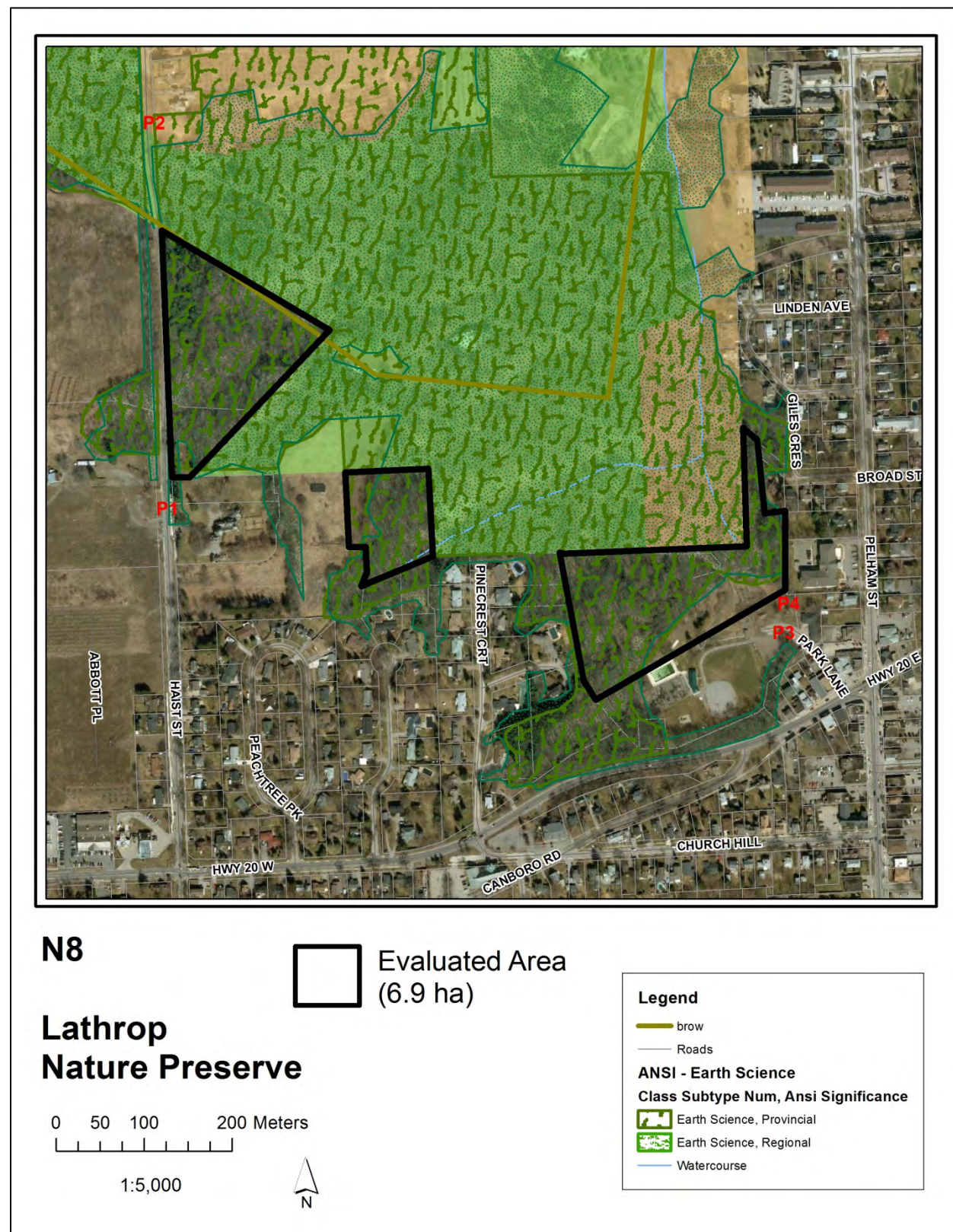
## **APPENDIX 2**

### **Detailed Mapping and Justification for Proposed Additions**

**N8****Lathrop Nature Preserve**

Town of Pelham

Niagara Region





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2b. Contain a significant Escarpment-related feature (Font Hill Kame Earth Science ANSI)
- 2c. Part of a nature preserve under the ownership of the Nature Conservancy of Canada, and the Town of Pelham
- 2d. Lands are part of the Short Hills/St. John's ESA

**Description**

The Lathrop Nature Preserve in Pelham was donated to NCC by Whiting and Margaret Lathrop in 1998. Forest cover on the property protects the headwaters of Twelve Mile Creek, which supports the last remaining brook trout population in the Niagara Region. The Lathrop Nature Preserve is on the upper valley slopes and therefore has varied woodlands from dry forest to damp areas due to the large groundwater seepage zones. The property supports several species considered rare in Ontario and Canada, including butternut and American chestnut. This area plays host to an unusual concentration of large tulip-trees. (Source: NCC website)

**Photos**

*P1 Looking north along Haist Street.*





*P2 Looking south along Haist Street*



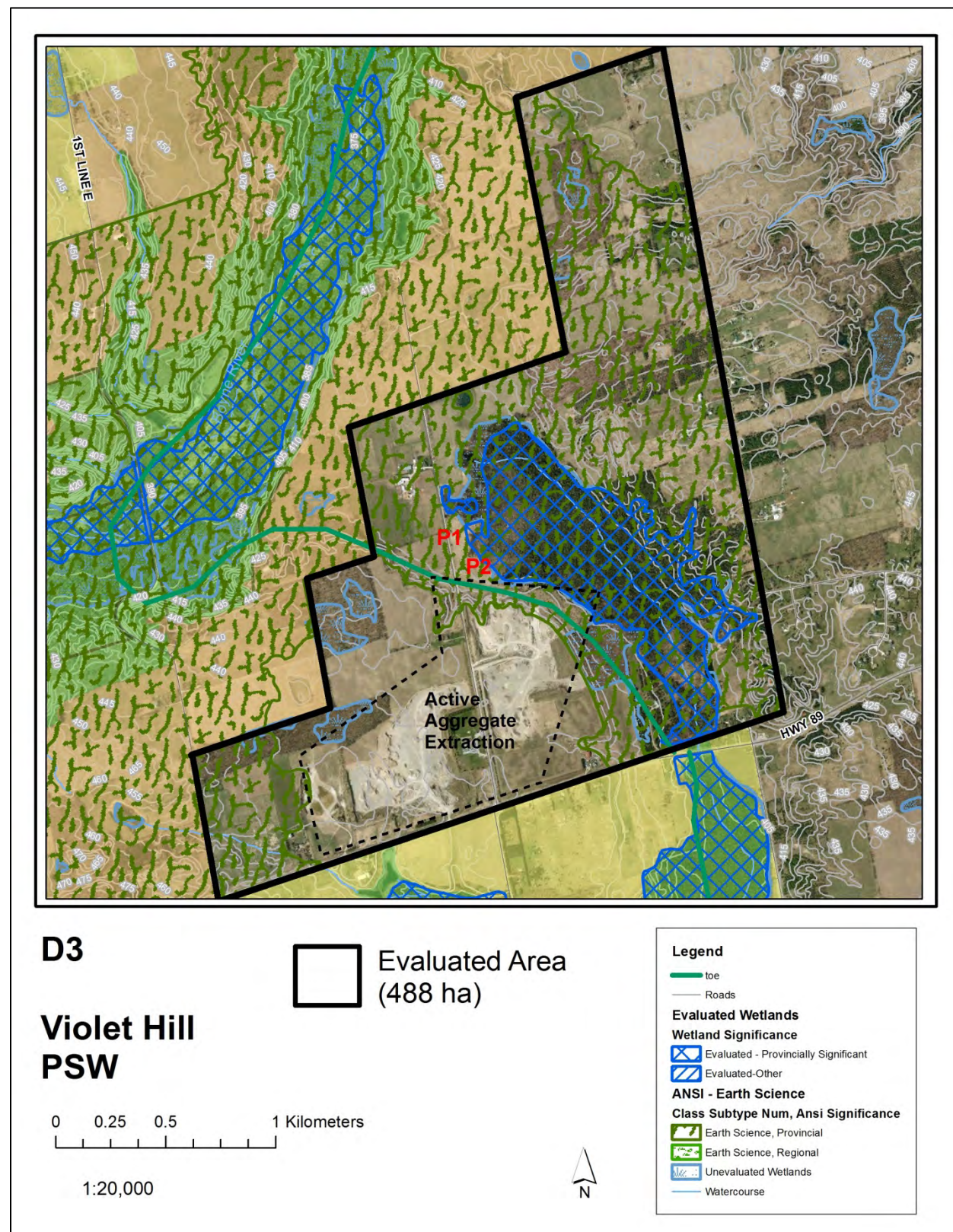
*P3 Marlene Stewart Streit Park*



**D3****Violet Hill Provincially Significant Wetland**

Town of Mono

County of Dufferin



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2b. Contain an Escarpment-related feature (Primrose-Boyne Valley Earth Science ANSI – provincially significant)
- 2d. Contains large portion of Violet Hills PSW (other portions partially within the NEP Area). Approximately 68 ha of PSW and 24 ha of unevaluated wetland.
- 2e. Lands have a scenic rating of “attractive” and “low.”

**Description**

Area D3 meets three of the six criteria for adding lands to the NEP Area, but it also contains an active aggregate extraction operation (Mulmur Aggregates Inc.).

The PSW within the evaluated area is contiguous with PSW to the south, which is within the NEP Area. The PSW occupies a meltwater channel that separates the Orangeville and Singhampton Moraines; The Singhampton moraine is known colloquially as Violet Hill. The area is classified as a provincially-significant Earth Science ANSI because of the topographic expression of the two moraine systems and the meltwater channel. In the 1976 study *Earth Science Candidate Nature Reserves in the Niagara Escarpment Planning Area*, it was noted that the entire area between Primrose and Violet Hill, all the way south to Mono Centre, should be included in the nature reserve (i.e., Earth Science ANSI). It also noted that the features are sensitive to the development of extractive industries if they are allowed on a large scale.

The evaluated area is also considered a significant groundwater recharge area, and is identified as a highly vulnerable aquifer on source protection mapping.

**Photos**

P1 Looking north toward the NEP Area along 2<sup>nd</sup> Line EHS



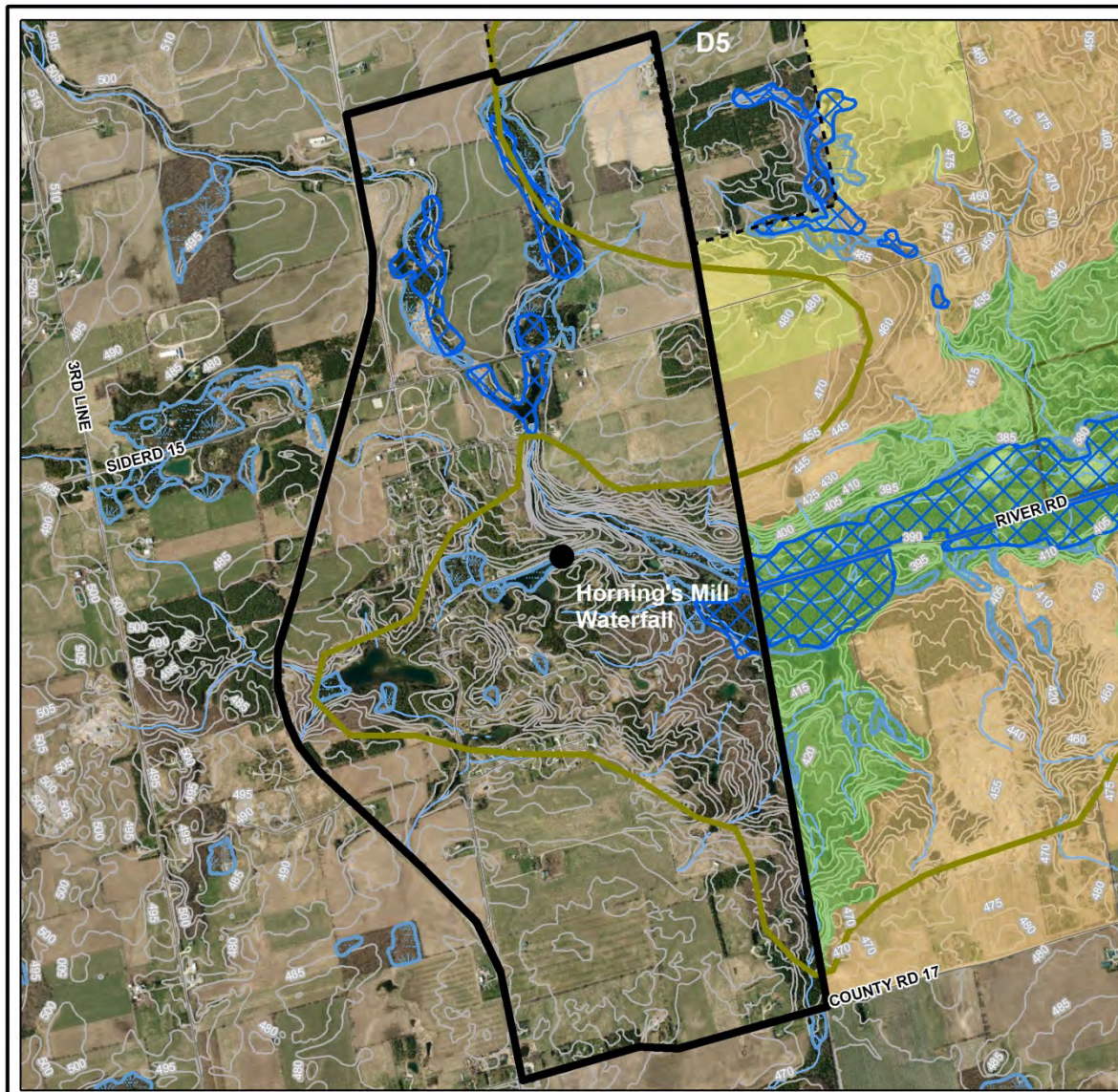


*P2 Looking east toward Violet Hill PSW Complex*

**D4****Horning's Mills Hamlet & Waterfall**

Melancthon Township

County of Dufferin

**D4**

Evaluated Area  
(706 ha)

**Horning's  
Mills**

Scale 1:24,000

0 180 360 540 720  
Metres



Ontario

**Legend**

toe

brow

**Evaluated Wetlands  
Wetland Significance**

Evaluated - Provincially Significant

Evaluated-Other

Watercourse

Unevaluated Wetlands



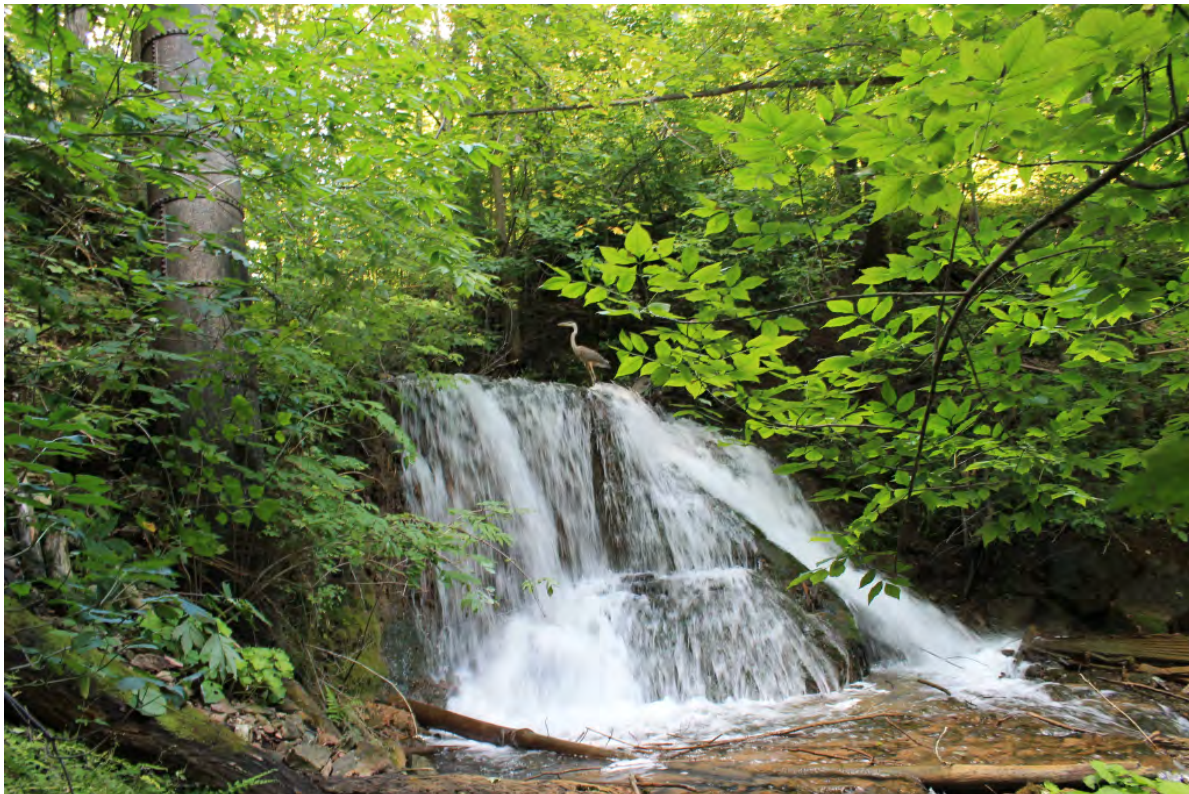
**Criteria Met:**

- 1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2d. Contains a portion of Terra Nova PSW; Horning's Mill waterfall
- 2e. Lands have a scenic rating of outstanding, attractive and average.
- 2f. Horning's Mills historic mills and hydro-electric generating station
- NB Lands are in Development Control

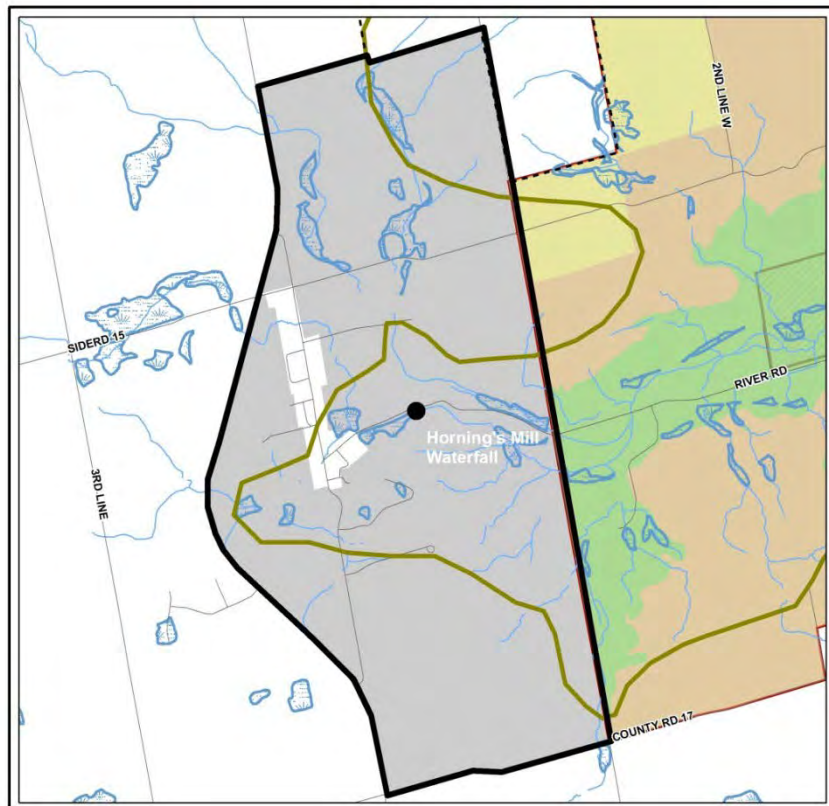
**Description**

Horning's Mills is an historic settlement in Melancthon Township. It is currently under NEC Development Control, but was excluded from the NEP Area in 1985. In the 1800s, six mills were located in Horning's Mills. Stone foundation ruins and remnant machinery and flumes are still on site. The waterfall is on private property.

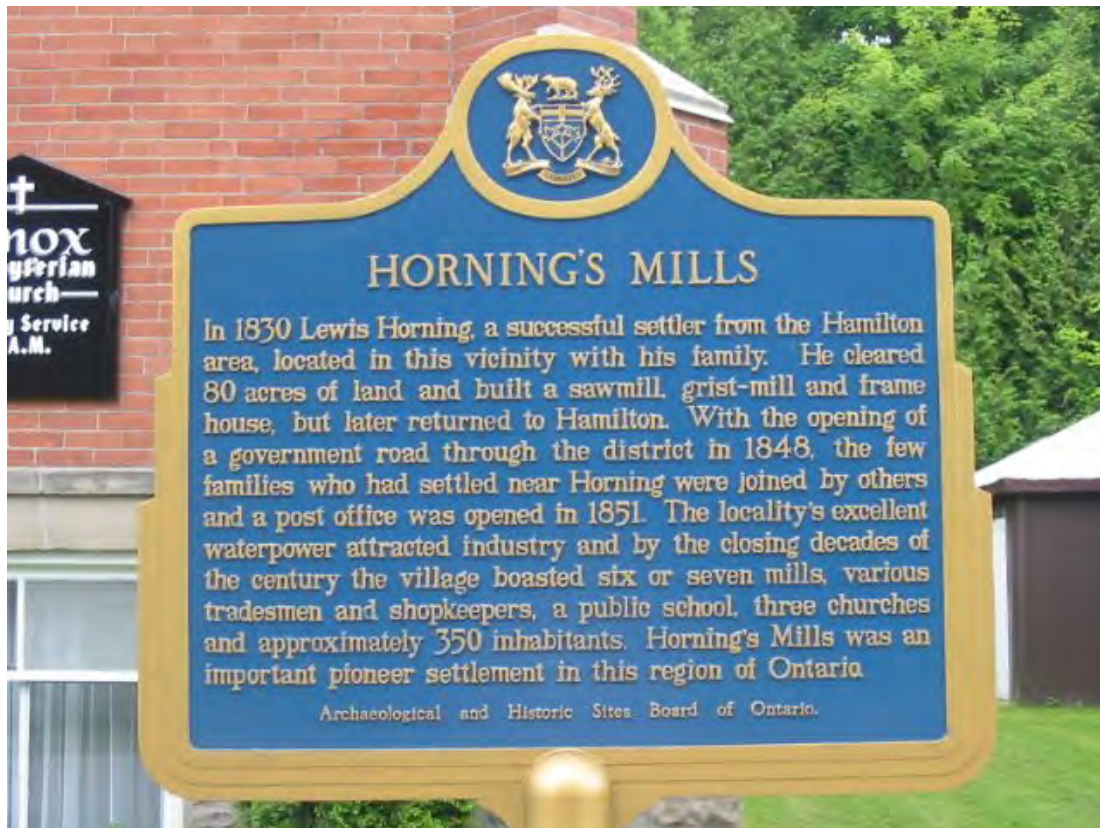
The evaluated area is also considered a significant groundwater recharge area, and is identified as a highly vulnerable aquifer on source protection mapping.

**Photos**

*Photo credit: David Waters, Dufferin County Real Estate*



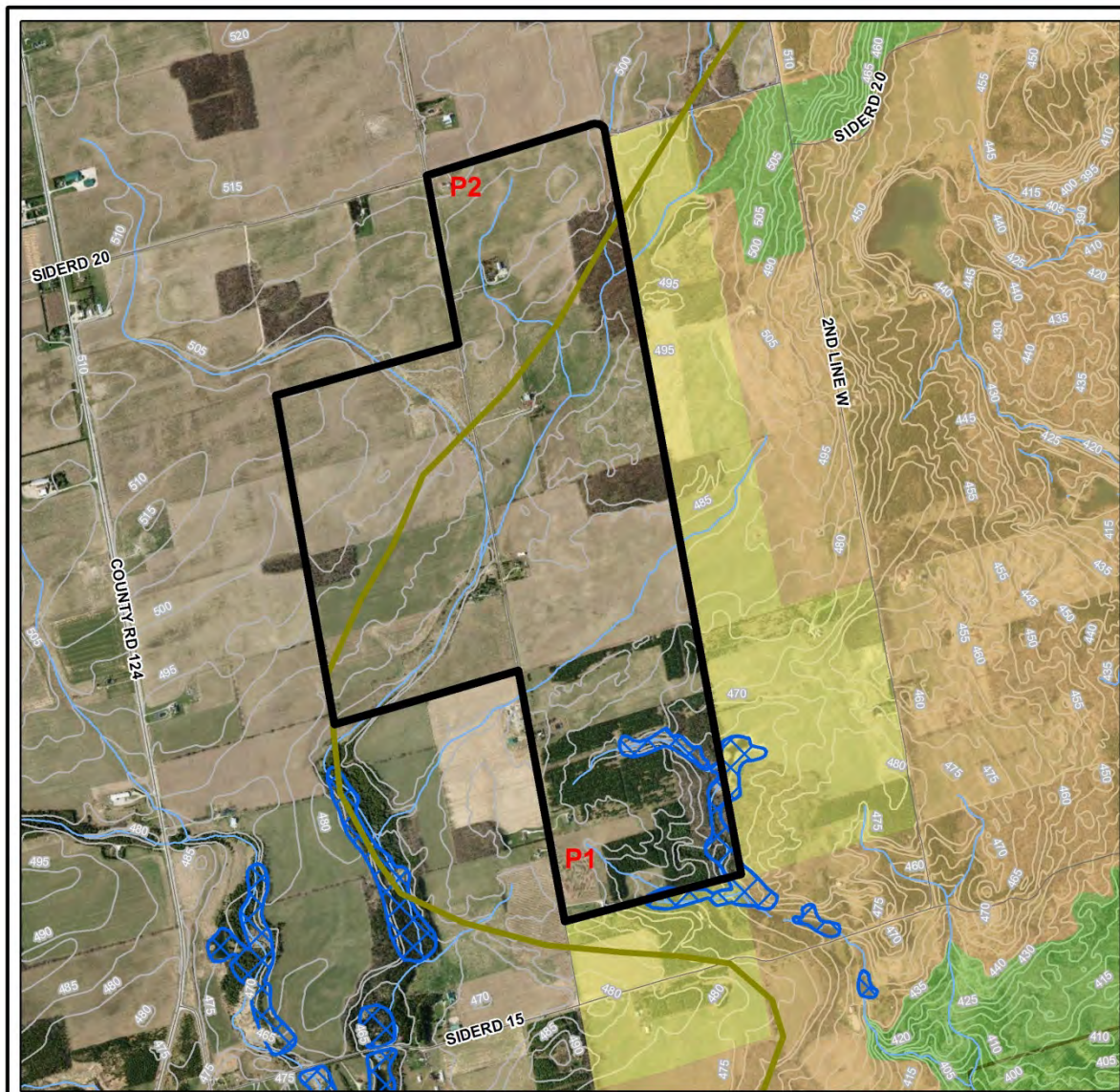
*Horning's Mills Development Control area*





**D5**

**Horning's Mill Escarpment Brow**  
 Melancthon and Mulmur Townships  
 County of Dufferin

**D5**

**Horning's Mill  
 Escarpment Brow**

□ Evaluated Area  
 (265 ha)

Scale 1:20,000  
 0 150 300 450 600  
 Metres

**Legend**

— toe  
 — brow

**Evaluated Wetlands****Wetland Significance**

▤ Evaluated - Provincially Significant  
 ▦ Evaluated-Other  
 — Watercourse

**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2d. Contains portions of Terra Nova PSW (approx. 20 ha), the Pine River headwaters
- 2e. Lands have a scenic ranking of attractive.

**Description**

Hewitt estimates that the Escarpment brow is found within this evaluated area, however, it is buried and not evident on the landscape. The southern portion of the evaluated area contains a portion of the Terra Nova PSW. These wetlands are the headwaters of the Pine River, and are identified by Nottawasaga Valley Conservation Authority as an area of significant groundwater recharge and a highly vulnerable aquifer.

**Photos**

*P1 Looking northeast from Mulmur-Melancthon Townline and north of 15 Sideroad*



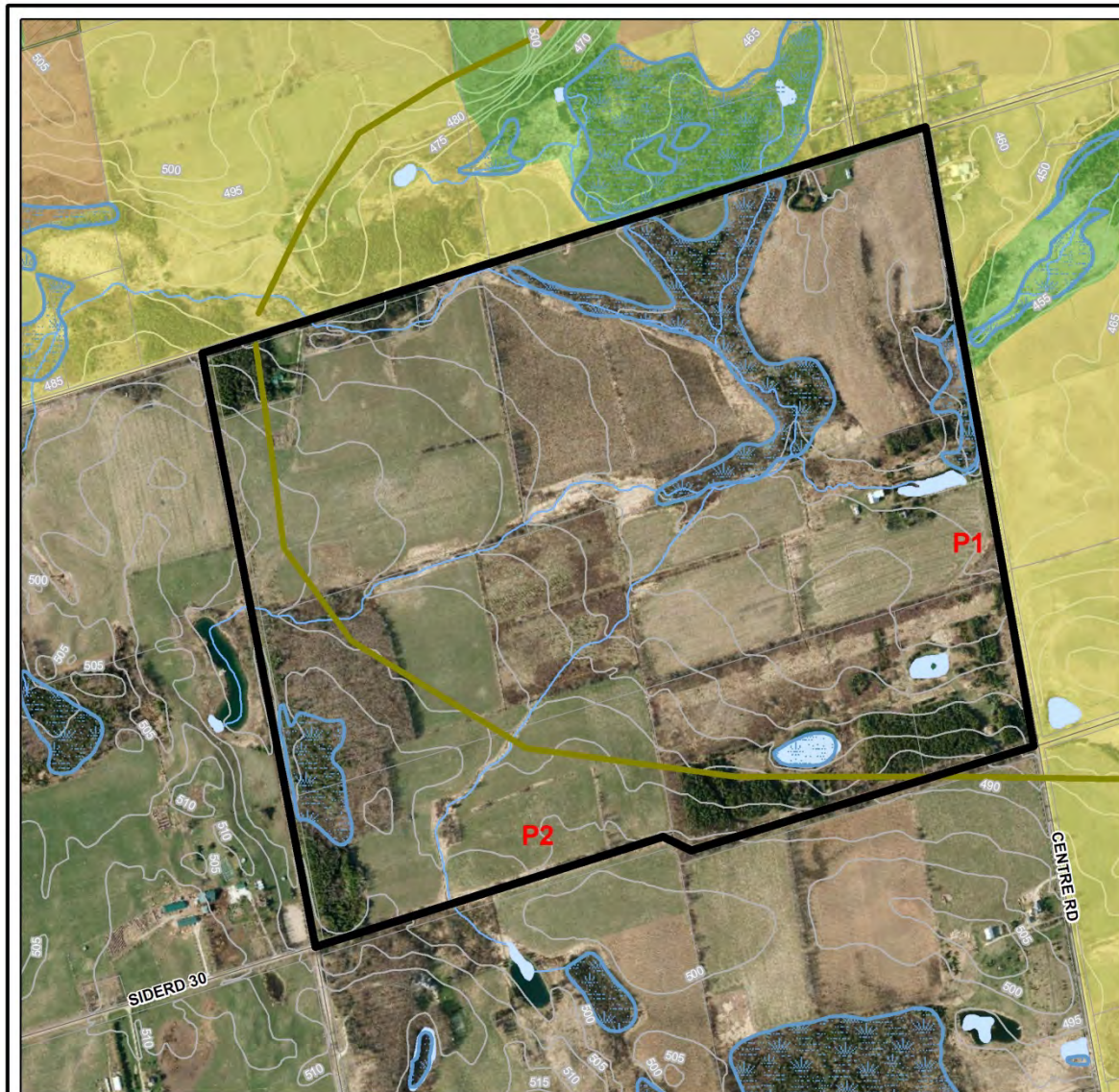
*P2 Looking south from 20 Sideroad and Mulmur-Melancthon Townline*



**D7****Lavender Escarpment Brow**

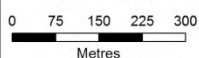
Mulmur Township

County of Dufferin

**D7****Lavender  
Escarpment Brow**Evaluated Area  
(149 ha)**Legend**

- toe
- brow
- Watercourse
- Unevaluated Wetlands

Scale 1:10,000



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2d. Unevaluated wetland >5 ha that is contiguous with unevaluated wetland in the NEP Area.  
Also: portion of Lavender Swamp LSW partially within NEP Area.
- 2e. Lands have a scenic ranking of attractive

**Description**

Hewitt estimates that the Escarpment brow is found within this evaluated area. The unevaluated wetland is greater than 7 hectares in size, and is contiguous with an unevaluated wetland that is in the NEP Area. These wetlands are the headwaters for a tributary of the Pine River, and are identified by Nottawasaga Valley Conservation Authority as an area of significant groundwater recharge.

**Photos**

*P1 Looking northwest along Centre Road towards Escarpment brow and Noisy River valley*



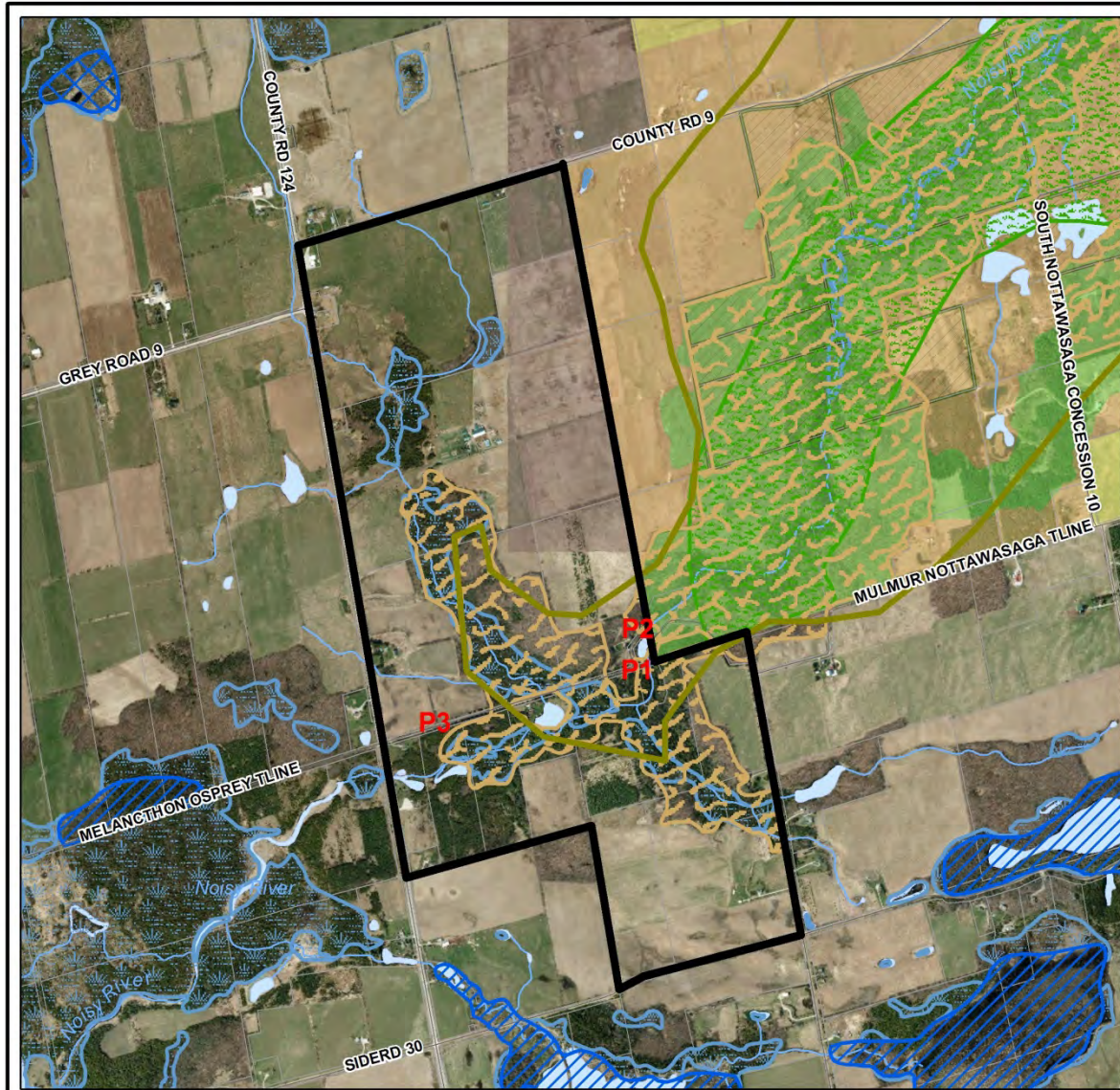



*P2 Looking northeast towards Escarpment brow and Noisy River valley, from 30 Sideroad.*

**D8****Lavender Falls Provincial Life Science ANSI**

Clearview Township, County of Simcoe

Melancthon Township, County of Dufferin

**D8**

 Evaluated Area  
(294 ha)

**Lavender Falls  
Life Science ANSI**

Scale 1:20,000  
0 150 300 450 600  
Metres



Ontario

**Legend**

-  toe
-  brow
- Evaluated Wetlands**
- Wetland Significance**
-  Evaluated - Provincially Significant
-  Evaluated-Other
- ANSI - Life Science**
- Class Subtype Num, Ansi Significance**
-  Life Science, Provincial
-  Life Science, Regional
- ANSI - Earth Science**
- Class Subtype Num, Ansi Significance**
-  Earth Science, Provincial
-  Earth Science, Regional
-  Watercourse



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2b. Waterfall (Lavender Falls)
- 2d. Lavender Falls Provincial Life Science ANSI; Noisy River; unevaluated wetland >5 ha
- 2e. Small portion ranked as outstanding scenery. Most areas are ranked as average and low.

NR Partially under Development Control

**Description**

Portions of the Provincial Life Science ANSI associated with Lavender Falls and the Noisy River are outside of the NEP Area. The subject lands contain the Escarpment brow (as identified by Hewitt), which is the rim of the Noisy River re-entrant valley. A portion of the evaluated area falls under NEC Development Control.

When the Niagara Escarpment Planning Area was being researched, vegetation disturbance and erosion were significant because of grazing. Since then, restoration efforts have been undertaken.

**Photos**

*P1 Lavender Falls dam on Noisy River: not in NEP Area*





*P2 Lavender Falls on Noisy River: House is in NEP Area, but not river.*



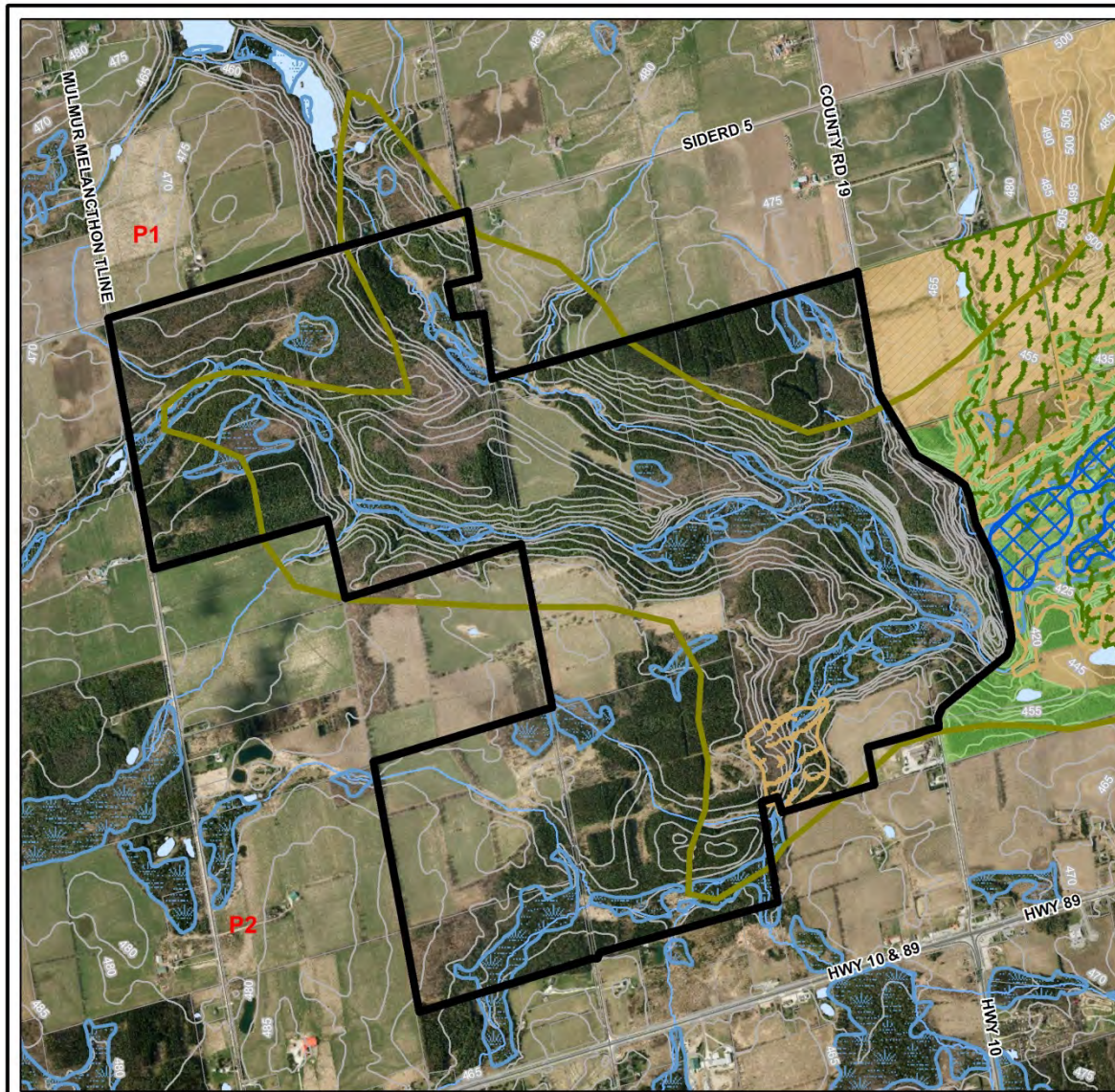
*P3 Looking east along Mulmur-Nottawasaga Townline at the intersection with County Road 124. Lavender Falls ANSI spans both sides of the road.*



**D9****Boyne River Escarpment Valley**

Mulmur Township

County of Dufferin

**D9****Boyne River  
Escarpment  
Valley****Evaluated Area  
(491 ha)**

Scale 1:20,000  
0 250 500 750 1000  
Metres



Ontario

**Legend**

— brow

**Evaluated Wetlands****Wetland Significance**

[Blue box with white border] Evaluated - Provincially Significant

[Blue box with white border] Evaluated-Other

**ANSI - Life Science****Class Subtype Num, Ansi Significance**

[Orange box] Life Science, Provincial

[Green box] Life Science, Regional

**ANSI - Earth Science****Class Subtype Num, Ansi Significance**

[Green box] Earth Science, Provincial

[Green box] Earth Science, Regional

— Watercourse



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment Brow
- 2c. Public lands (Boyne Valley Provincial Park) partially outside of existing NEP Area.
- 2d. Unevaluated wetland. headwaters of Boyne River. Portion of the Boyne Valley Life Science ANSI – provincial
- 2e. Lands have a scenic rating of very attractive and attractive and average

**Description**

Boyne Valley Provincial Park is a Natural Environment park within NEPOSS. However, the park boundaries extend beyond the NEP Area. The 491 hectares proposed for addition include only the publicly-owned lands extending beyond the current NEP boundary. Private property has been excluded.

**Photos**

*P1 View to the southeast from Mulmur-Melancthon Townline.*



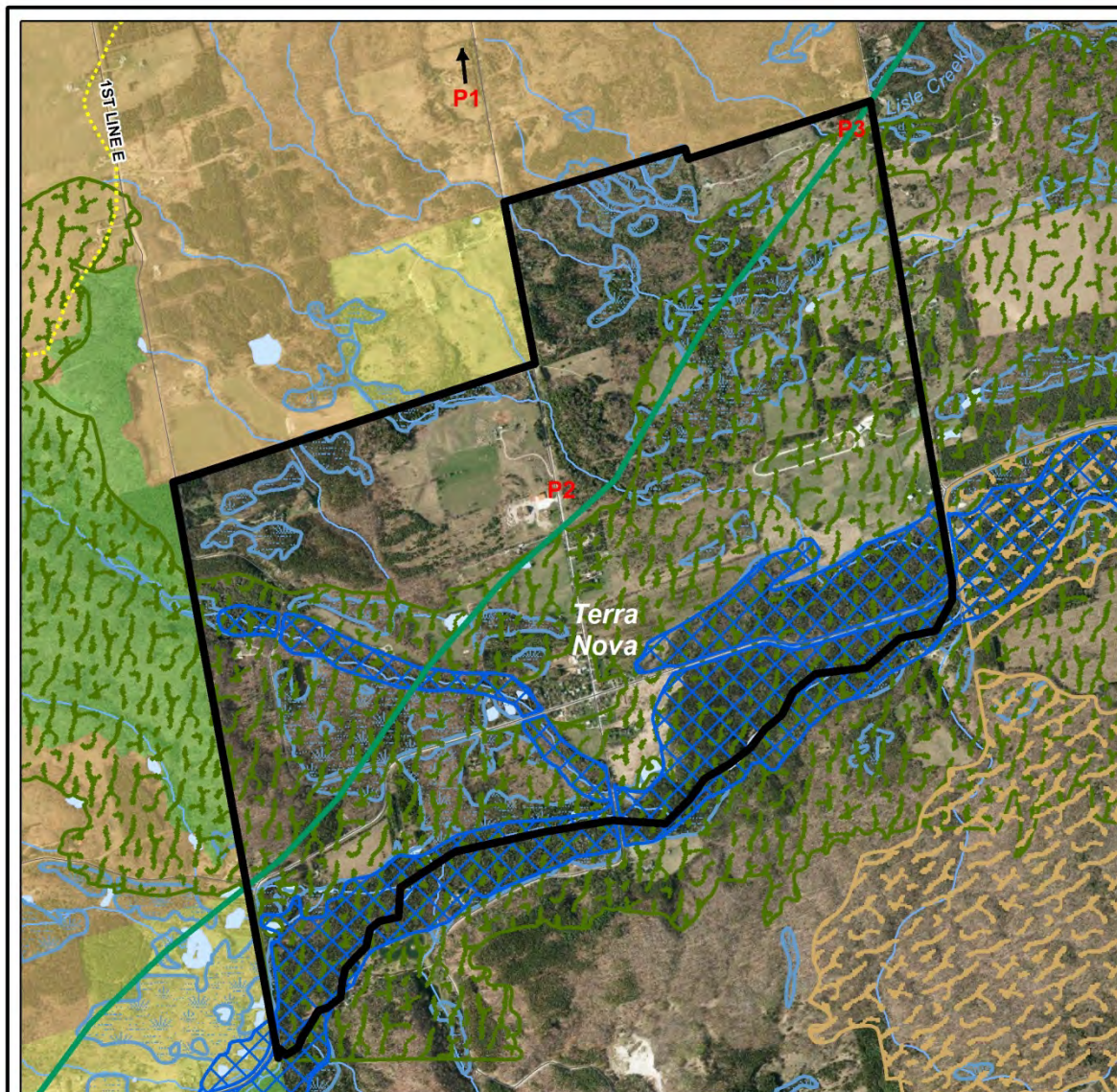



*P2 View to the east from Mulmur-Melancthon Townline.*

**D10****Pine River Escarpment Toe**

Mulmur Township

County of Dufferin

**D10****Pine River  
Escarpment  
Toe**
 Evaluated Area  
(517 ha)

Scale 1:20,000

0 250 500 750 1000

Metres



Ontario

**Legend**

-  Toe
-  Outliers
- Evaluated Wetlands**
- Wetland Significance**
-  Evaluated - Provincially Significant
-  Evaluated-Other
- ANSI - Life Science**
- Class Subtype Num, Ansi Significance**
-  Life Science, Provincial
-  Life Science, Regional
- ANSI - Earth Science**
- Class Subtype Num, Ansi Significance**
-  Earth Science, Provincial
-  Earth Science, Regional
-  Watercourse



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment Toe
- 2b. Pine River Valley Earth Science ANSI (Provincial)
- 2d. Terra Nova PSW; Black Bank Creek, Pine River
- 2e. Lands have a scenic rating of outstanding, very attractive, attractive and average

**Description**

The Pine River Earth Science ANSI contains three significant geological features: a meltwater channel, outwash plain, and terraces. These features were identified as an ANSI in the 1970s due to the lack of disturbance and their educational and interpretive value for understanding the deglaciation of the Escarpment. The meltwater channel is connected to the Violet Hill PSW, also a meltwater channel, which is described in D3.

Black Bank Creek arises in the Escarpment zone near the Pine River subwatershed boundary at Lavender. The creek cascades south through Black Bank, joining the Pine River near Terra Nova. Black Bank Creek benefits from extensive forest cover and groundwater discharge (springs) and is considered healthy from its headwaters downstream to the Pine River. Most of its drainage area is forested – Black Bank Creek is considered one of the most pristine streams in the Nottawasaga River watershed.

**Photos**

*P1 View of Mulmur Hills from top of Ruskview Outlier (Black Bank Hill) across Pine River Valley*



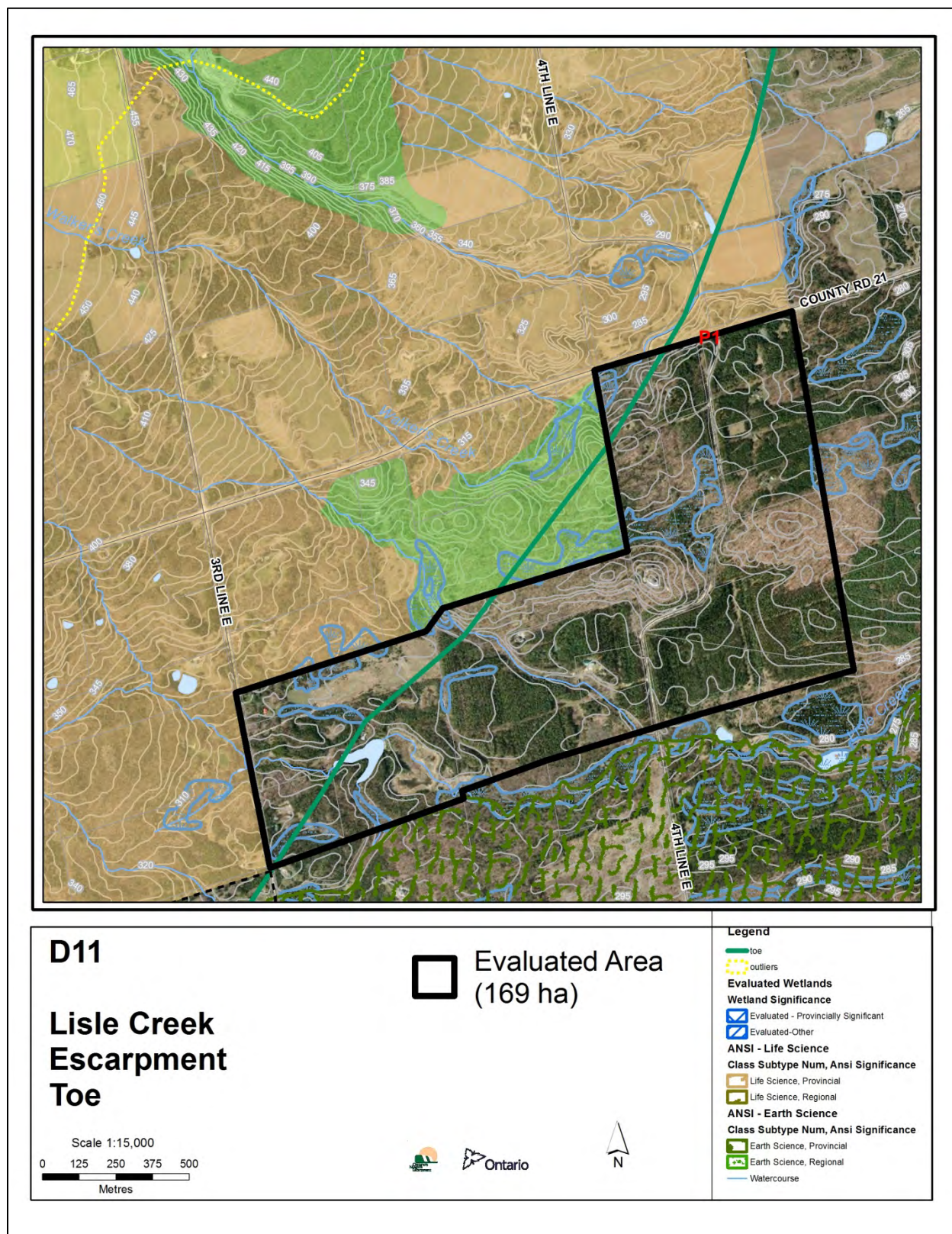
*P2 View to Mulmur Hills, looking south along 2<sup>nd</sup> Line from Mulmur municipal offices. (Coincides with toe of Escarpment)*



*P3 Looking south along 3<sup>rd</sup> Line, from slopes of Ruskview Outlier (Black Bank Hill) towards Pine River and Mulmur Hills*



**D11**  
**Lisle Creek Escarpment Toe**  
 Mulmur Township  
 County of Dufferin





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment Toe
- 2d. Unevaluated wetland >5 ha partially outside the NEP Area; Lisle Creek headwaters
- 2e. Lands have a scenic rating of very attractive, attractive and average

**Description**

Arising on the Escarpment west of Airport Road, Lisle Creek flows eastward through rugged, forested Escarpment and moraine features before emerging onto an agricultural plain in former Tosorontio Township. Brook trout reside in the headwaters of Lisle Creek. Much of Lisle Creek is considered below potential due to degraded stream bank areas associated with agriculture and with dam/pond networks.

**Photos**

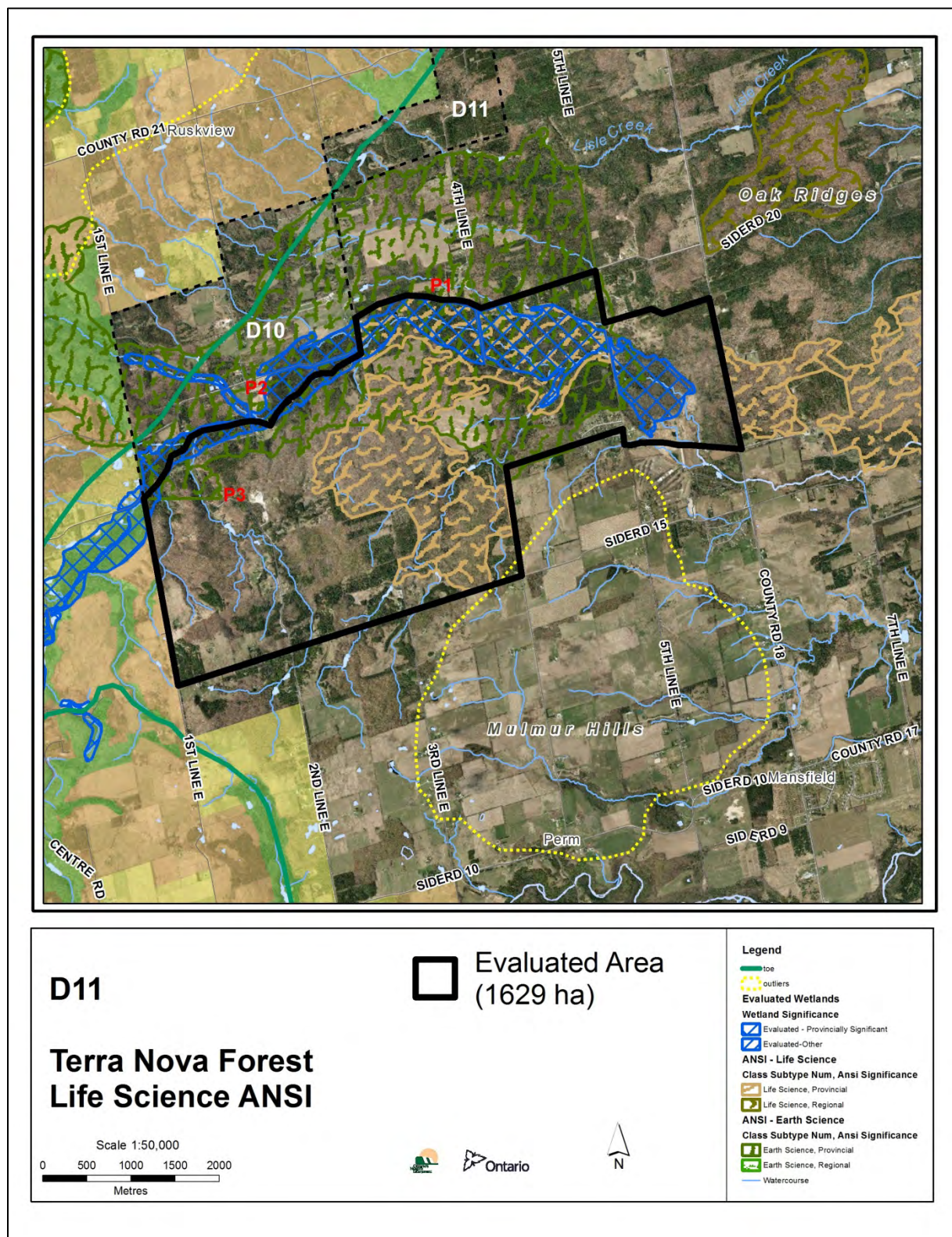
*P1 Looking west along County Road 21, towards Escarpment toe*



**D13****Terra Nova Forests Life Science ANSI**

Mulmur Township

County of Dufferin





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2b. Pine River Valley Earth Science ANSI (Provincial)
- 2d. Terra Nova PSW; Pine River; Terra Nova Life Science ANSI (Provincial)
- 2e. Lands have a scenic rating of outstanding, very attractive, attractive and average

**Description**

The Pine River Earth Science ANSI contains three significant geological features: a meltwater channel, outwash plain, and terraces. These features were identified as an ANSI in the 1970s due to the lack of disturbance and their educational and interpretive value for understanding the deglaciation of the Escarpment. The meltwater channel is connected to the Violet Hill PSW, also a meltwater channel, which is described in D3.

The Terra Nova Forests Life Science ANSI is representative of upland forests of sandy moraine, and valley forests consisting of cedar, balsam fir, birch and white spruce.

**Photos**

*P1 View of Mulmur Hills, south from 20<sup>th</sup> Sideroad.*





*P2 View to Mulmur Hills, south along 2<sup>nd</sup> Line, toward Mulmur Hills*



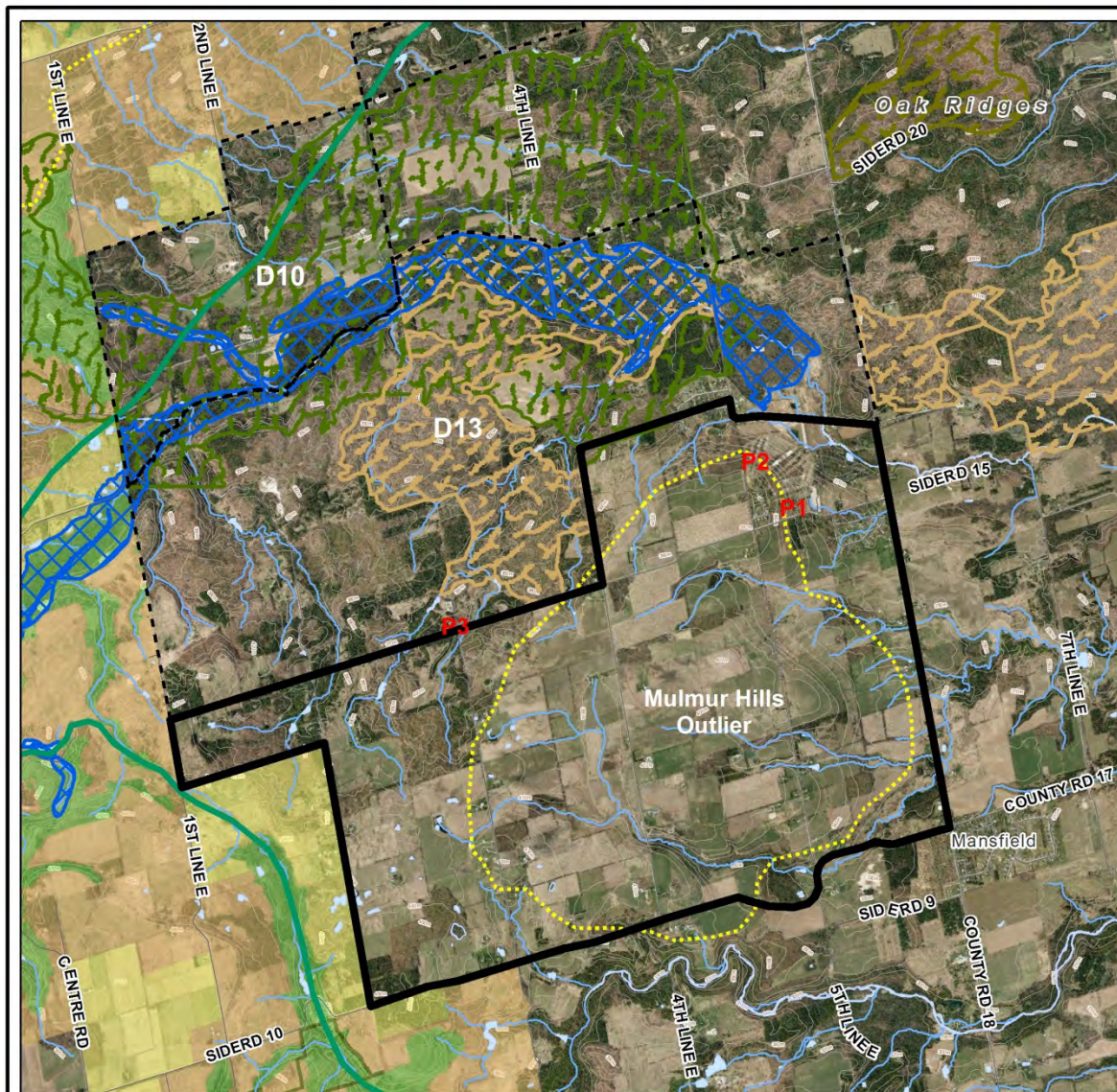

*P3 Road cut near Mulmur township waste management site: stratified outwash sand associated with the Singhampton moraine.*



**D14****Mulmur Hills Outlier**

Mulmur Township

County of Dufferin

**D14****Mulmur Hills  
Outlier**
 **Evaluated Area**  
(2032 ha)

Scale 1:50,000  
0 500 1000 1500 2000  
Metres



Ontario

**Legend**

-  toe
-  outliers
- Evaluated Wetlands**
- Wetland Significance**
-  Evaluated - Provincially Significant
-  Evaluated-Other
- ANSI - Life Science**
- Class Subtype Num, Ansi Significance**
-  Life Science, Provincial
-  Life Science, Regional
- ANSI - Earth Science**
- Class Subtype Num, Ansi Significance**
-  Earth Science, Provincial
-  Earth Science, Regional
-  Watercourse



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Mulmur Hills Outlier
- 2d. Headwaters of Pine River; unevaluated wetland >5 ha.
- 2e. Lands have a scenic rating of very attractive, attractive and average

**Description**

The Mulmur Hills Outlier is a partially detached outlier, formed by down-cutting of two unnamed tributaries of the Pine River. The plateau and south and west slopes of the outlier are covered with till, whereas the north and eastern slopes of the outlier are Paleozoic bedrock. The Mansfield Ski Club is located on the northeast slope.

The outlier landscape is dominated by agriculture, with some residential development associated with the ski club. The northwest slopes of the outlier are adjacent to the Terra Nova Forests Life Science ANSI.

Views to the east, including the Oak Ridges Moraine and the Lake Simcoe plain, are scenic.

**Photos**

*P1 view to Oak Ridges moraine to east from top of Mulmur Hills outlier (along 15<sup>th</sup> Sideroad)*





*P2 Slopes of Mansfield Ski Club on Mulmur Hills Outlier. Taken from Airport Road*



*P3 View to east along 15<sup>th</sup> Sideroad at 3<sup>rd</sup> Line, approaching Mulmur Hills Outlier from the west.*

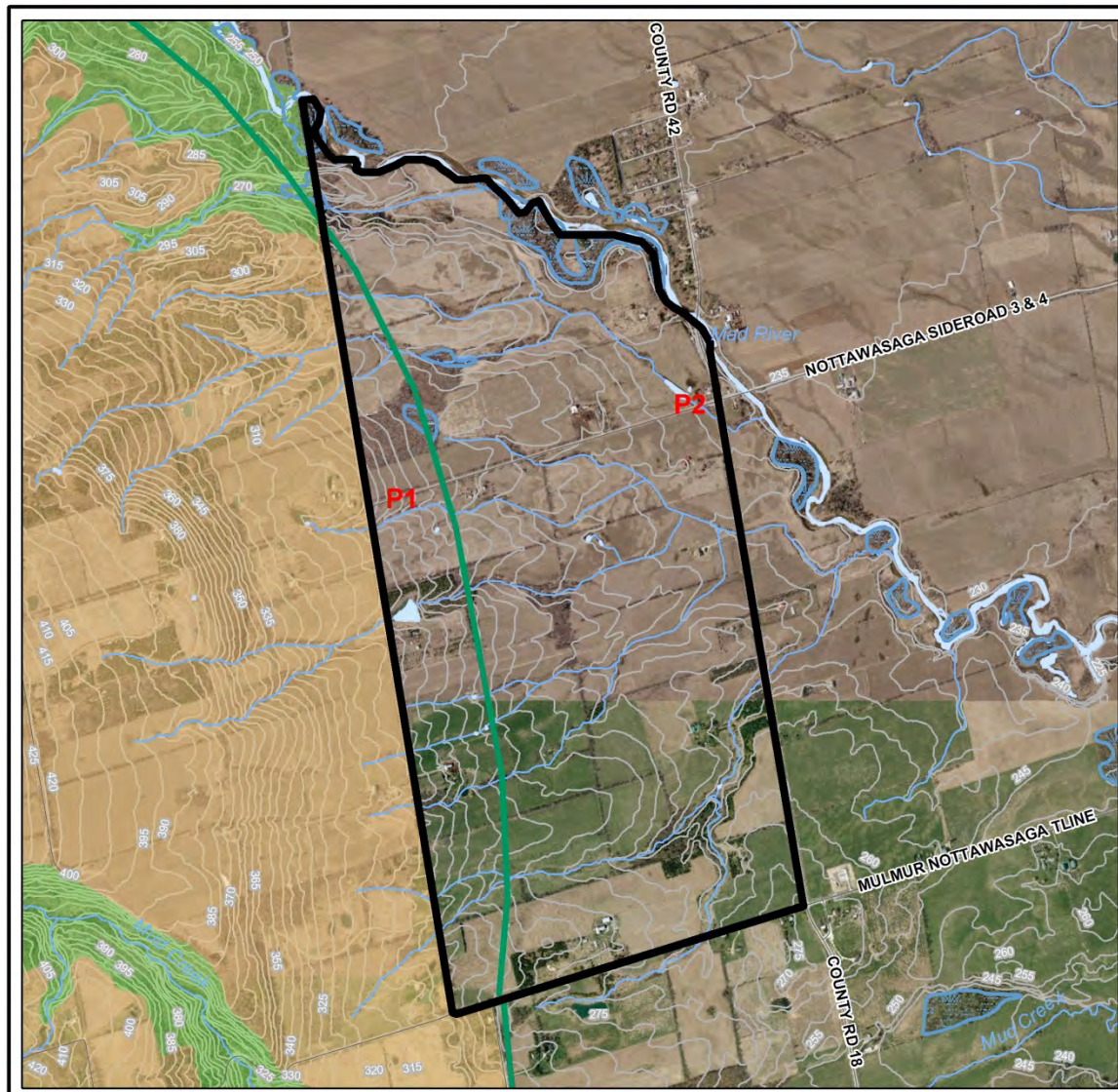


# S1

## Avening Escarpment Toe

### Clearview Township

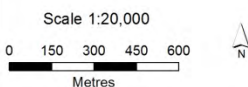
### County of Simcoe



S1

Evaluated Area  
(365 ha)

## Avening Escarpment Toe



### Legend

- Toe
- Evaluated Wetlands**
- Wetland Significance**
  - Evaluated - Provincially Significant
  - Evaluated - Other
- ANSI - Life Science**
- Class Subtype Num, Ansi Significance**
  - Life Science, Provincial
  - Life Science, Regional
- ANSI - Earth Science**
- Class Subtype Num, Ansi Significance**
  - Earth Science, Provincial
  - Earth Science, Regional
- Watercourse

**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment outlier (including brow and toe) not included in the NEP Area
- 2d. Mad River valley (significant valleylands), headwaters of Warrington Creek and Coates Creek
- 2e. Lands have a scenic rating of outstanding, very attractive, attractive and average.

**Description**

To the south of Avening, a hamlet on Airport Road, the Escarpment toe is outside of the NEP Area. The lands between the current NEP boundary (Third Line) and Airport Road are being recommended for addition so as to protect the Escarpment toe as well as the scenic views to and from the Escarpment. Views to the east include the Nottawasaga River plain, the Minesing Wetland Conservation Area and the Edenvale Moraine.

**Photos**

*P1 View looking east (towards Minesing Wetlands) from 3<sup>rd</sup> Line along Escarpment toe.*



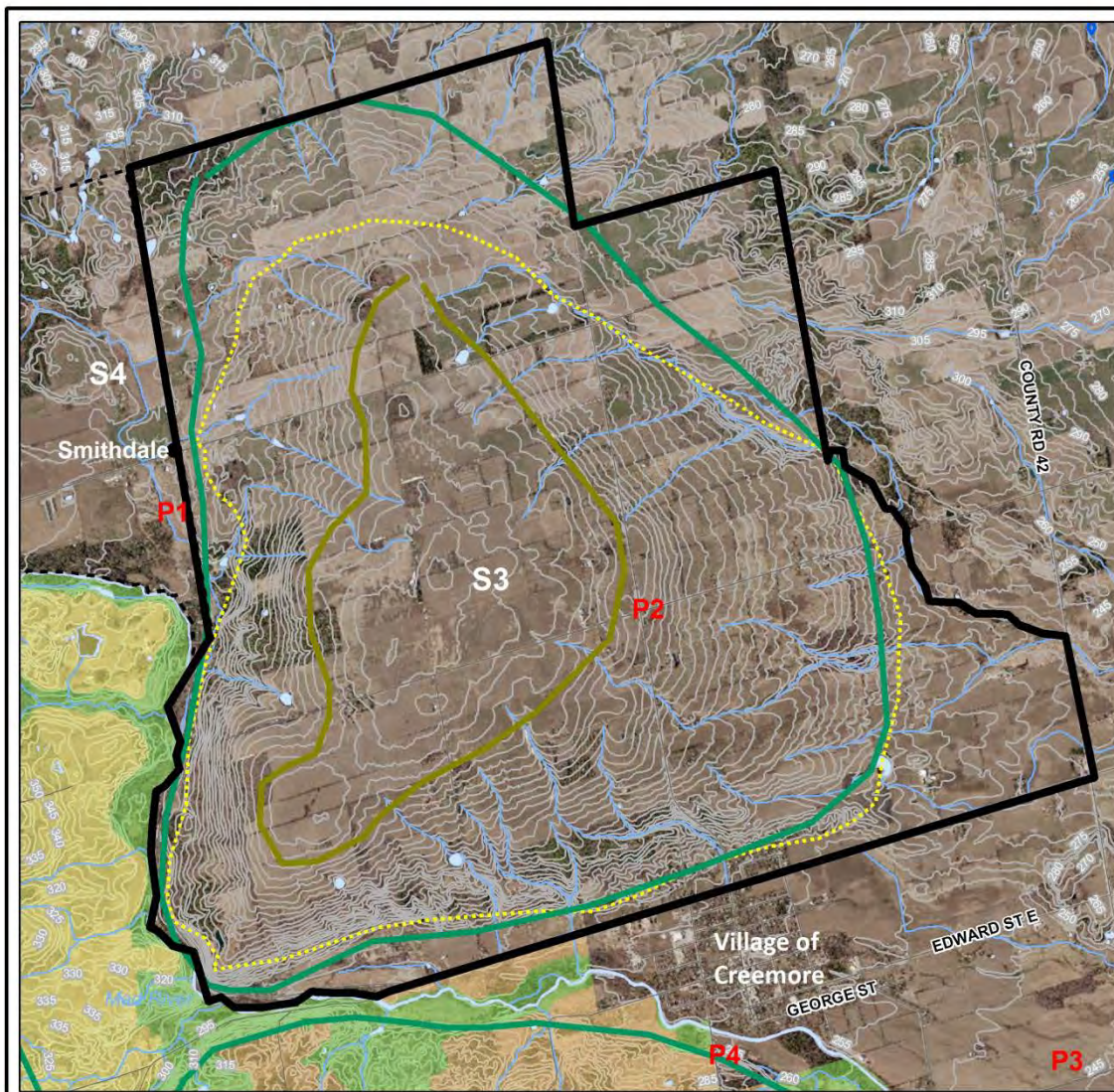


*P2 View from Airport Road, looking westward along Sideroad 3/4*

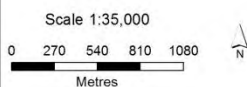
**S2****Creemore (Ten Hill) Outlier**

Clearview Township

County of Simcoe

**S3****Creemore (Ten Hill)  
Outlier**

Evaluated Area  
(2367 ha)



Ontario





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment outlier (including brow and toe) not included in the NEP Area
- 2d. Mad River valley (significant valleylands), headwaters of Warrington Creek and Coates Creek
- 2e. Lands have a scenic rating of outstanding, very attractive, attractive and average.

**Photos**

*P1 Heading south on Concession Road 6 towards slopes of Creemore Outlier.*



*P2 View to east along 12/13 Sideroad, from top of Creemore Outlier*



*P3 Southern slopes of the Creemore Outlier, viewed from Sideroad 6/7 north of Avening*



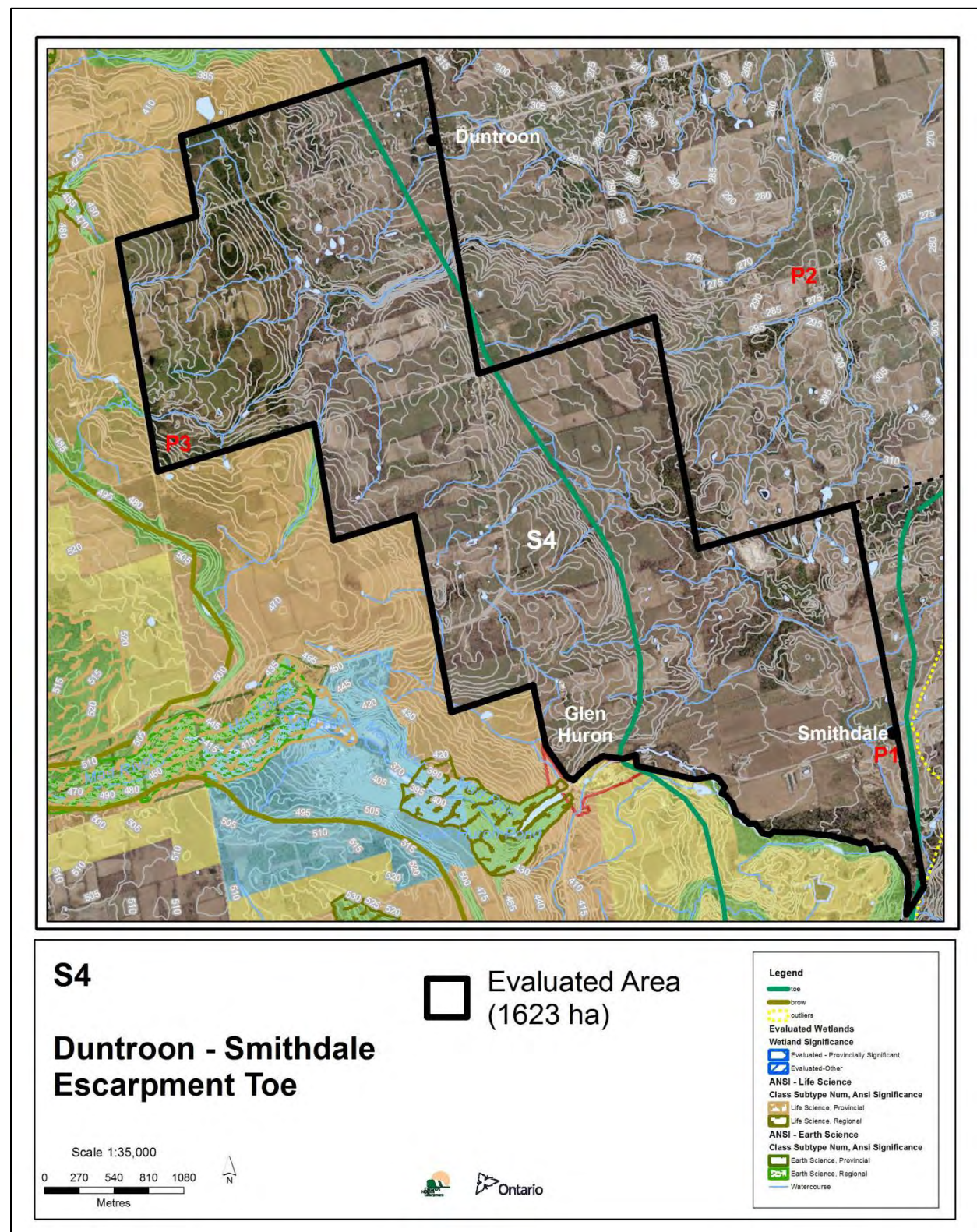
*P4 View from 4<sup>th</sup> Line south of the village of Creemore and the Mad River. View is taken from within the NEP Area, looking north across the Mad River valley to the slopes of the Creemore Outlier.*



**S3****Duntroon – Smithdale Escarpment Toe**

Clearview Township

County of Simcoe





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment toe not included in the NEP Area
- 2d. Batteaux Creek headwaters – identified as part of the NHS in Simcoe OP. Also includes NHS lands assoc. with Mad River
- 2e. Lands have a scenic rating of very attractive and attractive.

**Photos**

*P1 View westward toward Smithdale (not in the NEP Area) and Glen Huron, with main Escarpment in background. Vantage point is from the slopes of the Creemore (Ten Hill) outlier.*





*P2 View northwest toward Duntroon Escarpment. Hilly terrain is above the Escarpment toe, but is not in the NEP Area.*



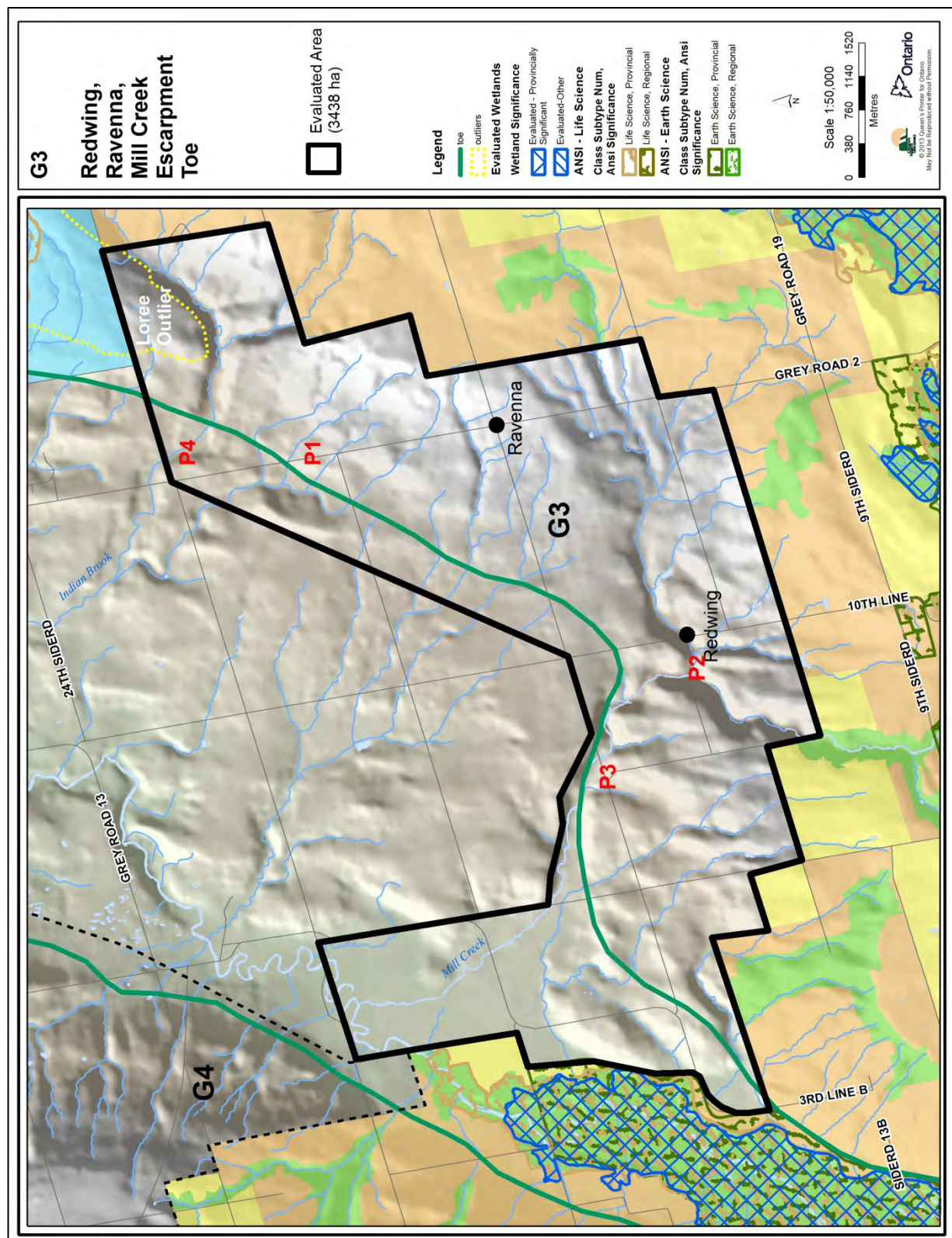
*P3 View to east from Concession Road 10 and Sideroad 20/21. Descending Escarpment towards toe. Lands not in NEP Area.*



**G3****Ravenna, Redwing, Mill Creek Escarpment Toe**

Town of The Blue Mountains

County of Grey





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Toe and slope of the Escarpment are outside the NEP Area, portion of Loree outlier
- 2d. Significant tributary/valleylands/headwaters of the Beaver River (Mill Creek)
- 2e. Outstanding and attractive scenic ranking
- 2f. Beaver Valley, Ravenna and Red Wing proposed as Cultural Heritage Landscapes in Town of the Blue Mountains study

**Description**

Mill Creek is a coldwater stream and a significant tributary of the Beaver River. The Mill Creek sub-watershed identified as being in excellent health according to the Grey-Sauble Conservation Authority's Watershed Report Card. Other streams flowing from the Escarpment in this area also feed the Beaver River.

The areas surrounding Ravenna, Red Wing, and Loree are identified as potential cultural heritage landscapes in a 2009 study commissioned by the Town of the Blue Mountains.

**Scenic Ranking**

The area is ranked as having outstanding and attractive scenery.

**Photos**

*P1 Toe of the Escarpment, heading north on Grey Road 2 towards Georgian Bay*





*P2 Mill Creek, near Redwing*



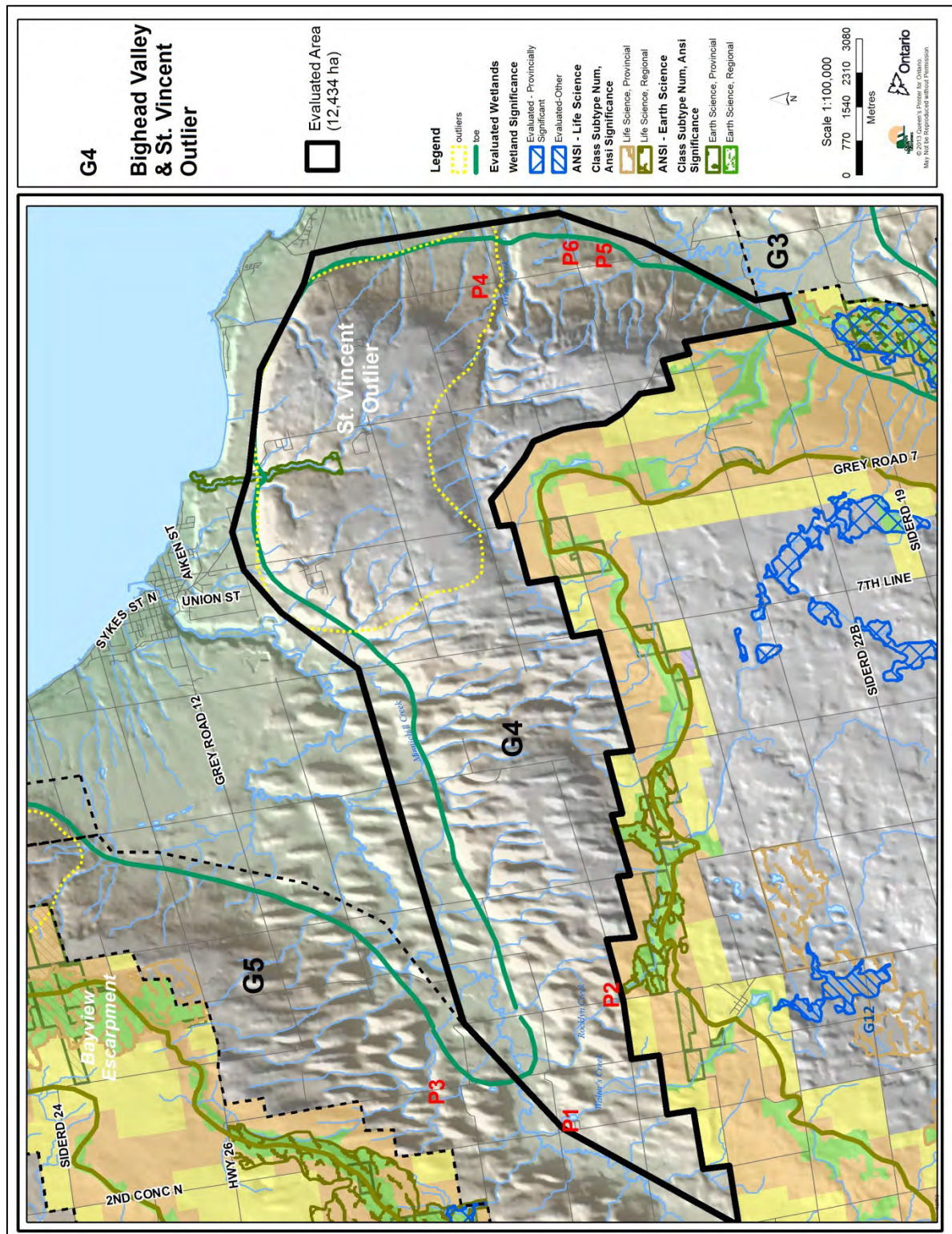
*P4 Indian Brook, which separates the Loree Outlier from the main Escarpment P3 Mill Creek*



# G4

## Bighead Valley (North-facing Slopes) & St. Vincent Outlier

Municipality of Meaford  
County of Grey



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment toe and slope; St. Vincent outlier
- 2b. Bighead Valley drumlin field; small portions of a Provincial Earth Science ANSI
- 2d. Headwaters for the Bighead and Beaver Rivers
- 2e. The area has scenic rankings of very attractive, attractive and low.
- 2f. Blue Mountains, Euphrasia & Beaver Valley proposed as Cultural Heritage Landscapes in Town of the Blue Mountains study

**Description**

The Bighead Valley was formed by pre-glacial erosion and subsequent advances of ice lobes during glaciation. The most prominent geological feature of the Bighead Valley is the drumlin field that spans the valley floor and Escarpment slopes. Within the Bighead Valley the Escarpment is buried.

The St. Vincent outlier also falls within the subject area. The outlier is partially detached from the main Escarpment by the Grier Creek stream valley. Grier Creek is a tributary of the Beaver River. Several tributaries of the Bighead River originate on the north-facing Bighead Valley slopes, including Walter's, Rocklyn and Minniehill Creeks.

East Meaford Creek Shales Earth Science ANSI –This is a 220 hectare valleyland, located in the west half of the alignment, that contains Workman's Creek. The area is important for hosting a variety of Paleozoic fossils.

The area is ranked as having very attractive, attractive and low scenery.

**Photos**

*P3 North-facing slopes and drumlin field of the Bighead Valley*





*P1 Walter's Creek*



*P2 Rocklyn Creek*



*P4 Grier Creek*





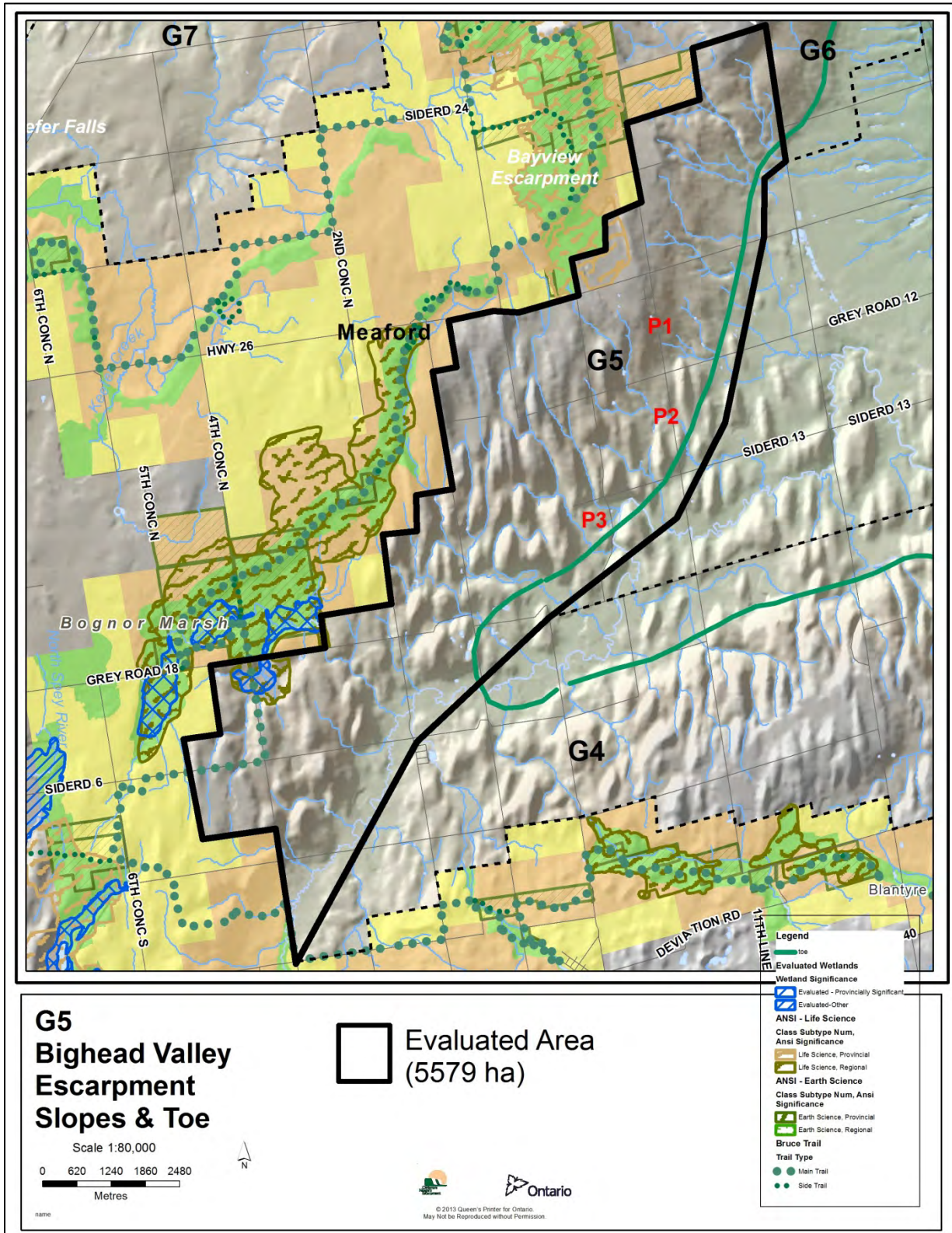
*P5 View from slopes of Griersville Escarpment, across Beaver Valley to Blue Mountain*



*P6 View to west along Dave McNichol Parkway (Grey Road 40). Terraced slopes not in NEP Area.*



**G5**  
**Bighead Valley Escarpment Toe & Slope (Southeast-facing)**  
 Municipality of Meaford  
 County of Grey



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment toe and slope
- 2b. Bighead Valley drumlin field
- 2d. Headwaters for the Bighead River. Small portions of Provincially Significant Wetland, and Regional and Provincial Life Science ANSIs
- 2e. The area has scenic rankings of very attractive and attractive
- 2f. The Bruce Trail is outside of the NEP Area.

**Description**

The Bighead Valley was formed by pre-glacial erosion and subsequent advances of ice lobes during glaciation. The most prominent geological feature of the Bighead Valley is the drumlin field that spans the valley floor and Escarpment slopes. Within the Bighead Valley the Escarpment is buried.

**Scenic Ranking**

The area is ranked as having very attractive and attractive scenery.

**Photos**

*P1 Bighead Valley drumlin on western valley slopes*





*P2 View across Bighead Valley to east*



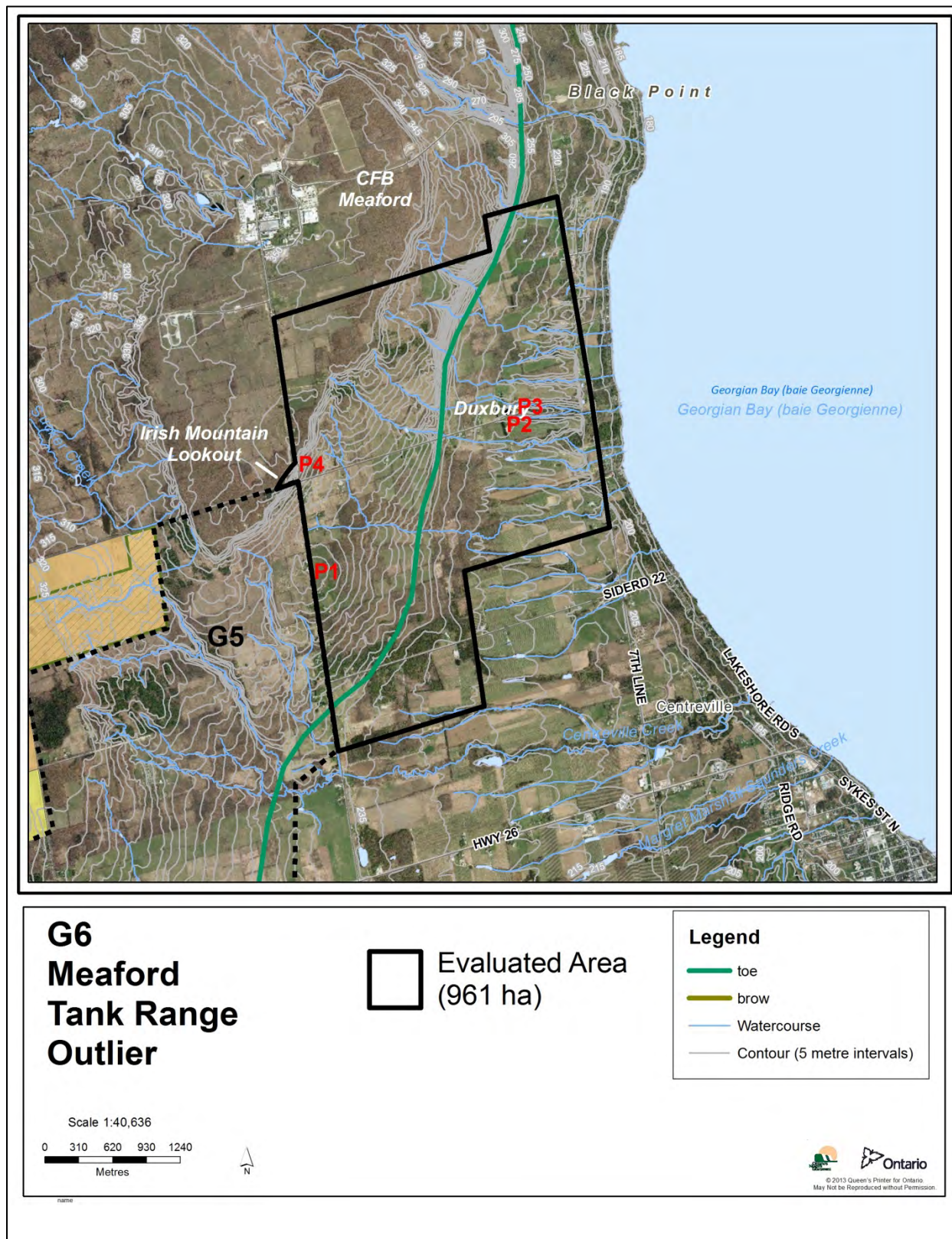
*P3 Bighead River*



**G6****Meaford Tank Range Outlier**

Municipality of Meaford

County of Grey





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Tank Range outlier, including slopes and Escarpment toe
- 2d. Headwaters for small streams flowing to Georgian Bay
- 2e. The area has scenic rankings of very attractive, attractive and average.

**Description**

The majority of this outlier lies within the boundaries of the Meaford Canadian Forces Base. The portion of the outlier that is not on land owned by National Defence is being proposed as an addition to the NEP. A small municipal park, Irish Mountain Lookout, lies at the brow of the outlier, overlooking Georgian Bay. The outlier is the headwaters for many small streams flowing directly into the Georgian Bay.

The rural character of the area is marked by orchards, century farm houses and barns, and panoramic views of the Georgian Bay.

**Scenic Ranking**

The area is ranked as having average and attractive scenery.

**Photos**

*P1 View to the northwest: outlier slopes*



*P2 Duxbury Cemetery*



*P3 The view from Duxbury Sideroad to the southeast: Blue Mountain and Georgian Bay*

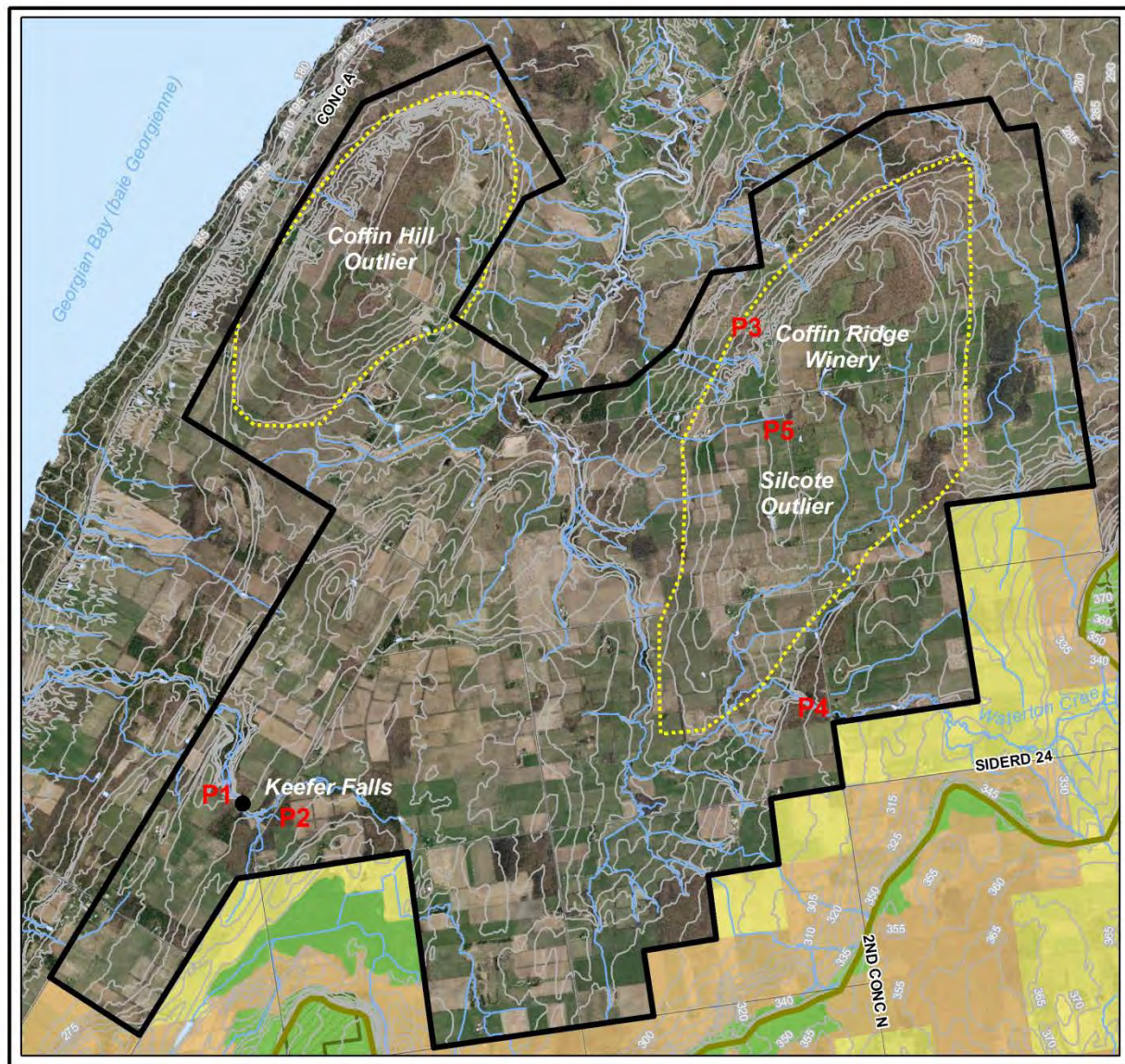


*P4 Irish Mountain Lookout (Municipality of Meaford Park)*




## G7 Coffin Hill and Silcote Outliers

Municipality of Meaford  
County of Grey



## G7 Silcote & Coffin Hill Outliers

 Evaluated Area  
(4853 ha)

### Legend

-  brow
-  outliers
-  Watercourse
-  Contour (5 metre intervals)

Scale 1:50,000

0 380 760 1140 1520  
Metres



Ontario

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**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Silcote and Coffin Hill outliers
- 2d. Headwaters of Waterton and Keefer Creeks. Keefer Creek waterfall
- 2e. The area has scenic rankings of average and attractive
- 2f. Tom Thomson multi-use trail

**Description**

Two large outliers were omitted from the 1985 NEP. These are the Silcote and Coffin Hill outliers. These are considered “stripped” outliers, meaning that the dolomite of the Amabel formation was stripped from the top of the Escarpment during glaciation.

**Scenic Ranking**

The area is ranked as having average and attractive scenery.

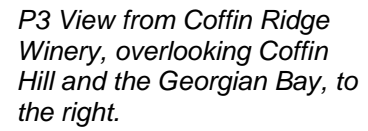
**Photos**

Photo credit:

<http://www.gowaterfalling.com/waterfalls/keefer.shtml>

*P1 & P2 Keefer Cree kand waterfall*



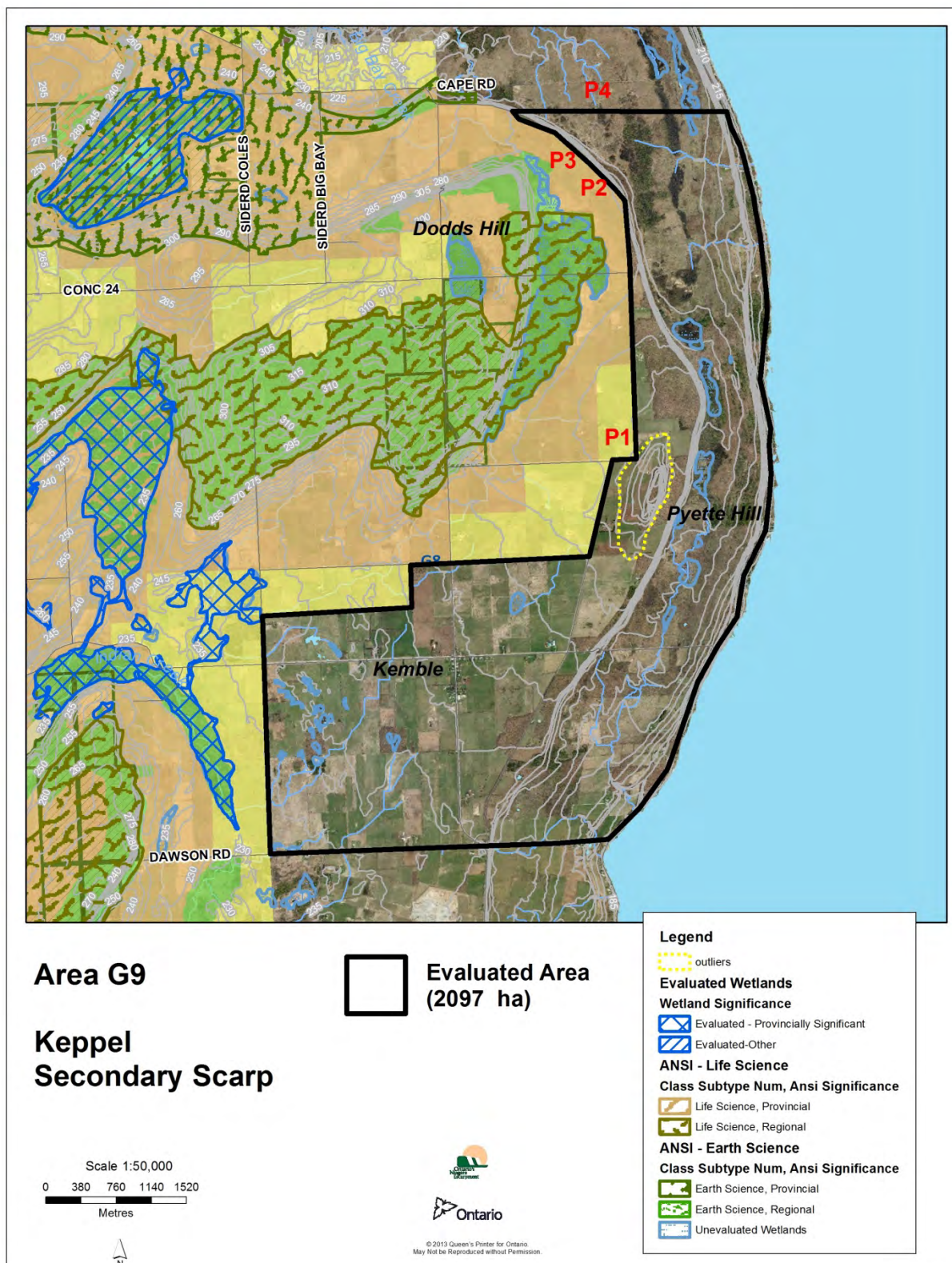




**G9****Keppel Secondary Scarp**

Township of Georgian Bluffs

County of Grey





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Pyette Hill outlier
- 2b. Secondary scarp associated with proglacial Lake Algonquin.
- 2e. Shoreline and secondary scarp areas are ranked as “attractive.”

**Description**

The secondary and shoreline scarp are very well defined south of Cape Commodore. A small outlier (Pyette Hill) is located within the subject lands.

The current NEP Area boundary lies above the secondary scarp. It is recommended that the NEP boundary be moved to include both the secondary and shoreline scarp as well as the terraced land in between. The new NEP boundary would be Grey Road 1. The developed shoreline cottage area has been omitted.

**Scenic Ranking**

The secondary scarp and shoreline scarp are ranked as attractive. The terraced land between the primary and secondary scarp is ranked as low.

**Photos**

*P1 Pyette Hill outlier*



*P2 & P3 Looking down scarp and talus slope along Georgian Range Road*



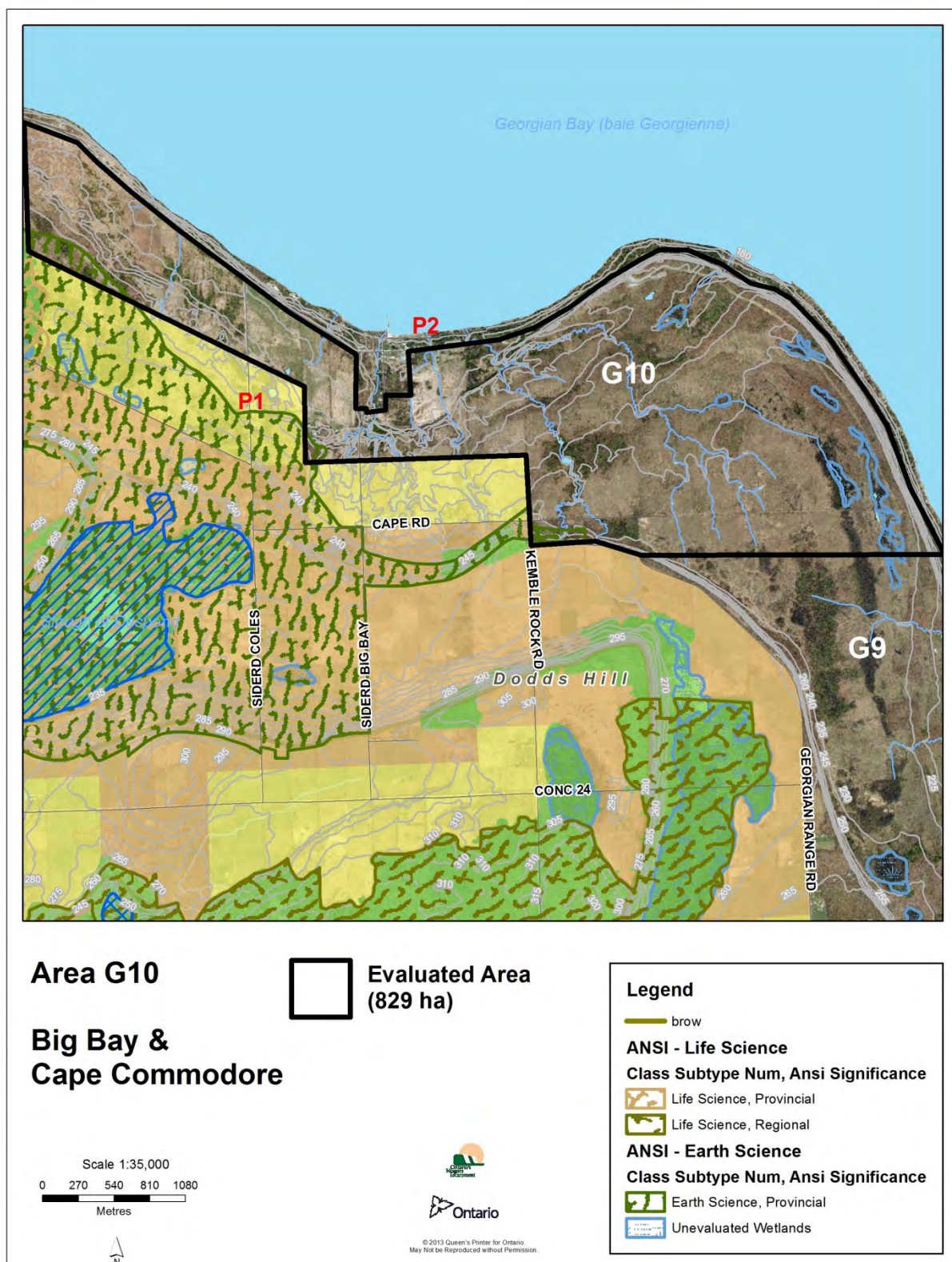
*P4 View towards secondary scarp, from terraced lands below*



# G10

## Big Bay & Cape Commodore

Township of Georgian Bluffs  
County of Grey



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2b. Small portions of Slough of Despond Earth Science ANSI. Secondary scarp associated with proglacial Lake Algonquin.
- 2d. Lands contain headwaters for Big Bay Creek
- 2e. Shoreline areas are ranked as “attractive.”

**Description**

The northern shoreline of the Township of Georgian Bluffs lies outside of the NEP. As a result, only the primary Amabel scarp associated with Skinner Bluff, Esther's Bluff and Dodds Hill (with the Slough of Despond in the valley between) is protected. However, an important feature of the Escarpment in the former Township of Keppel is subsidiary scarp. The secondary scarp forms a gradual slope towards Georgian Bay west of Big Bay, but it is steep and well defined to the north and east of Dodds Hill. Scarp can also be found along the Georgian Bay shoreline, and is well defined at Cape Commodore.

The village of Big Bay and the cottage development along the shoreline have been excluded from the lands proposed for addition to the NEP.

**Scenic Ranking**

The shoreline area is ranked as attractive. The terraced land between the primary and secondary scarp is ranked as average and low.

**Photos**

*P1 Descending the secondary scarp towards Georgian Bay on Coles Sideroad*





*P2 Shoreline scarp at Cape Commodore, to the east of Big Bay*

**G11**  
**Griffith Island**  
 Town of Georgian Bluffs  
 County of Grey





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Island classified as an Escarpment outlier
- 2b. Cobble, pebble beach
- 2e. Scenic ranking of very attractive (shoreline) and low (interior).
- 2f. Historic Georgian Bay lighthouse

**Description**

Griffith Island is a 785 ha Georgian Bay island that is classified as an Escarpment outlier. All but a small portion of the island is owned and operated by the Griffith Island Club, which is a private sport shooting and hunting club. In *Islands of Life: A Biodiversity and Conservation Atlas of the Great Lakes Islands*<sup>1</sup>, Griffith Island's biodiversity is identified as experiencing a medium-to-high level of threat due to recreational development. It also has some cropland (hayfields).

A five-hectare parcel on the island's east shoreline is owned by Transport Canada, and is the site of an historic lighthouse.

**Scenic Ranking**

The island's interior has a scenic ranking of "low", while the shoreline areas are ranked as "very attractive." Hay Island, White Cloud Island, and Griffith Island are highly visible from vantage points along the Colpoy's Bay shoreline.

**Photos**

P1 Parcel owned by Transport Canada



P2 Griffith Island lighthouse

<sup>1</sup> Nature Conservancy of Canada and Ontario Ministry of Natural Resources, 2010. *Islands of Life: A Biodiversity and Conservation Atlas of the Great Lakes Islands*, p.113.



*Griffith Island, from west of Big Bay*



*Griffith Island, from Big Bay Beach*



**G11****Hay Island**

Town of South Bruce Peninsula

County of Bruce



**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Island classified as an Escarpment outlier
- 2b. Cobble, pebble beach
- 2e. Scenic ranking of very attractive (shoreline) and low (interior).

**Description**

Hay Island is a 750 ha privately-owned Georgian Bay island that is classified as an Escarpment outlier. In *Islands of Life: A Biodiversity and Conservation Atlas of the Great Lakes Islands*<sup>2</sup>, Hay Island is identified as a key island for biodiversity conservation. Existing development on the island consists of six cabins along the northwest shoreline and an airplane landing strip towards the western side of the island. The County of Bruce Official Plan requires an amendment for any new development on the island, including a prohibition on new lot creation.<sup>3</sup>

**Scenic Ranking**

The island's interior has a scenic ranking of "low", while the shoreline areas are ranked as "very attractive." Hay Island, White Cloud Island, and Griffith Island are highly visible from vantage points along the Colpoy's Bay shoreline.

**Photos**

P1 Cottage development along Hay Island shoreline

<sup>2</sup> Nature Conservancy of Canada and Ontario Ministry of Natural Resources, 2010. *Islands of Life: A Biodiversity and Conservation Atlas of the Great Lakes Islands*, p.113.

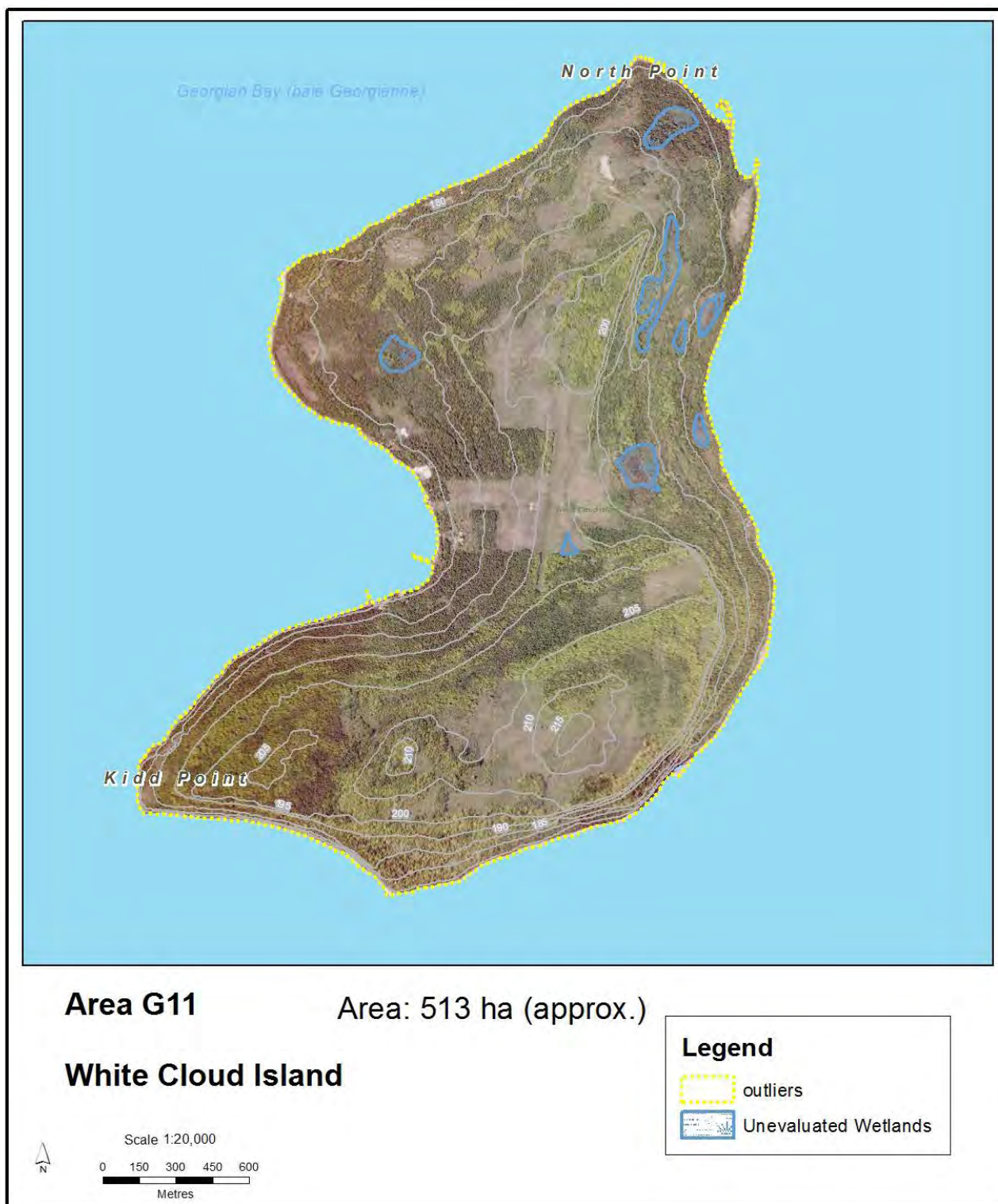
<sup>3</sup> County of Bruce Official Plan, June 2013 Consolidation, section 5.12.2



**G11****White Cloud Island**

Township of Georgian Bluffs

County of Grey



**Criteria Met:**

- 1. Lands are within the original NE Planning Area
- 2a. Island classified as an Escarpment outlier
- 2b. Cobble, pebble, shingle beaches
- 2e. Scenic ranking of very attractive

**Description**

White Cloud Island is a 513 ha Georgian Bay island that is classified as an Escarpment outlier. The entire island is privately owned, with the exception of one parcel in the northeast quadrant of the island, which is owned by Aboriginal Affairs and Northern Development Canada.

There is some cottage development along the shoreline of the island. The Georgian Yacht Club has a dock on the island, as does the federal Department of Fisheries and Oceans.

**Scenic Ranking**

Both the shoreline and interior of the island are ranked as “very attractive.”

**Photos**

*Hay, White Cloud, and Griffith Islands*  
*Photo credit: Anthony Francis (Google Earth)*





*Bay on the eastern side of White Cloud Island (Photo credit: Great Lakes Cruising Club)*

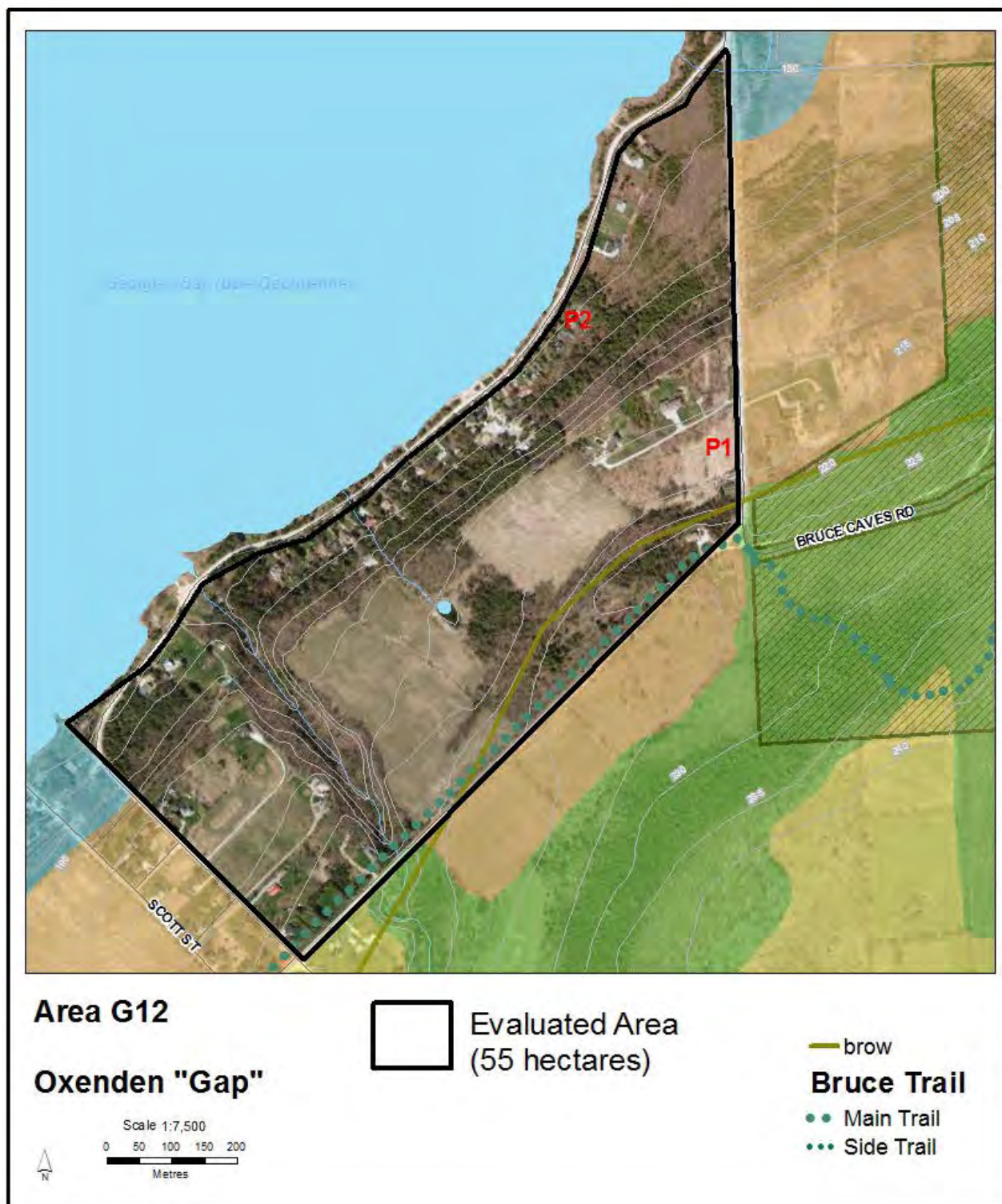


*View of Hay and White Cloud Island from Skinner Bluff (Photo credit: <http://1017theone.ca>)*

**G12****Oxenden "Gap"**

Township of Georgian Bluffs

County of Grey





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment brow
- 2d. Significant woodlands, stream valley (Gleason Brook)
- 2e. Scenic ranking of attractive (shoreline) and average (interior)
- 2f. Bruce Trail

**Description**

When the original NEP was approved in 1985, a piece along the southern shoreline of Colpoy's Bay was omitted, thereby creating a gap in the NEP Area along the shoreline. This gap is not conducive to maintaining a continuous natural environment along the shoreline associated with the Escarpment, and should be designated in a manner consistent with the NEP lands to the east and west.

The brow of the Escarpment roughly coincides with Grey Road 1, which is the current NEP boundary line. The main route of the Bruce Trail also parallels Grey Road 1 through the subject lands. The lands along the Escarpment brow are forested, and Gleason Brook drains from the Escarpment into Colpoy's Bay within the subject lands.

**Scenic Ranking**

The shoreline area is ranked as attractive. Lands closer to the Escarpment brow are ranked as average.

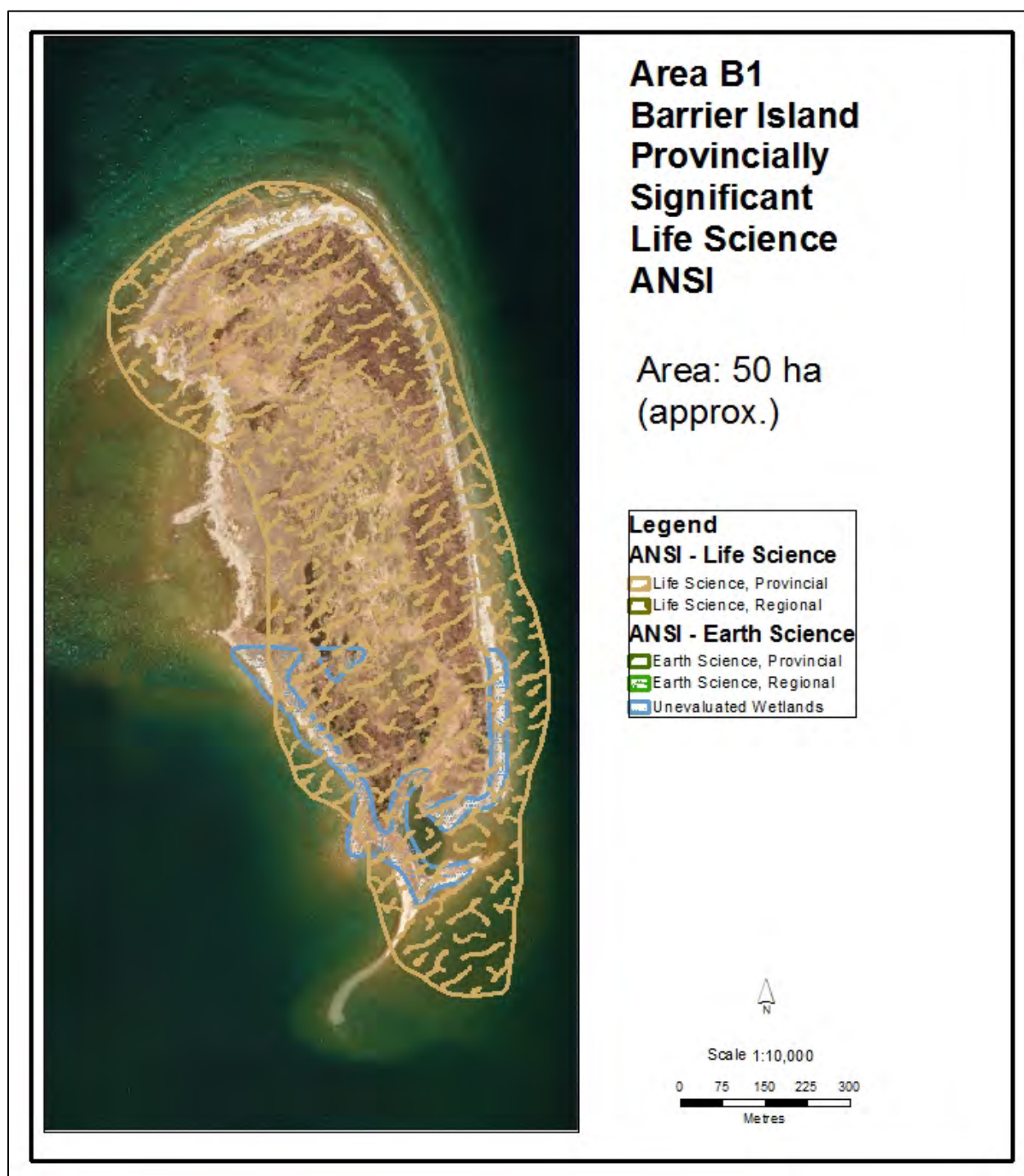
**Photos**

*P1 Descending the Escarpment towards Colpoy's Bay along Grey Road 1, near Oxenden. Lands to the left of Grey Road 1 were excluded from the NEP Area in 1985.*



*P2 Shoreline along  
Old Mill Road (looking  
across Colpoy's Bay)*



**B1****Barrier Island Provincially Significant Life Science ANSI**  
Georgian Bay

**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2a. Escarpment outlier
- 2b. Escarpment-related landform (cobble beach), alvar
- 2c. Crown land (assumption)
- 2d. Barrier Island Provincially Significant Life Science ANSI: alvar, unevaluated wetland.

**Description**

This uninhabited island (also known as Rabbit Island by the Ojibwa of Cape Croker) is located 2.5 kilometres northeast of Cape Dundas and has been given an ANSI classification. The island's bedrock is dolomite. It is a significant alvar and provides a habitat for nesting colonial waterbirds. Although cobble beaches are the main shoreline features there is a marshy area located to the south.

The island was identified and surveyed in the International Alvar Initiative. The Natural Heritage Information Centre tracks the alvar as a provincially significant vegetation community type. The island was initially identified as a nature reserve candidate in the 1976 report *Significant Natural Areas along the Niagara Escarpment*.

Ownership of the island is unclear.

**Scenic Ranking**

Barrier Island was not assessed in the 1976 Landscape Evaluation Study.

**Photos**

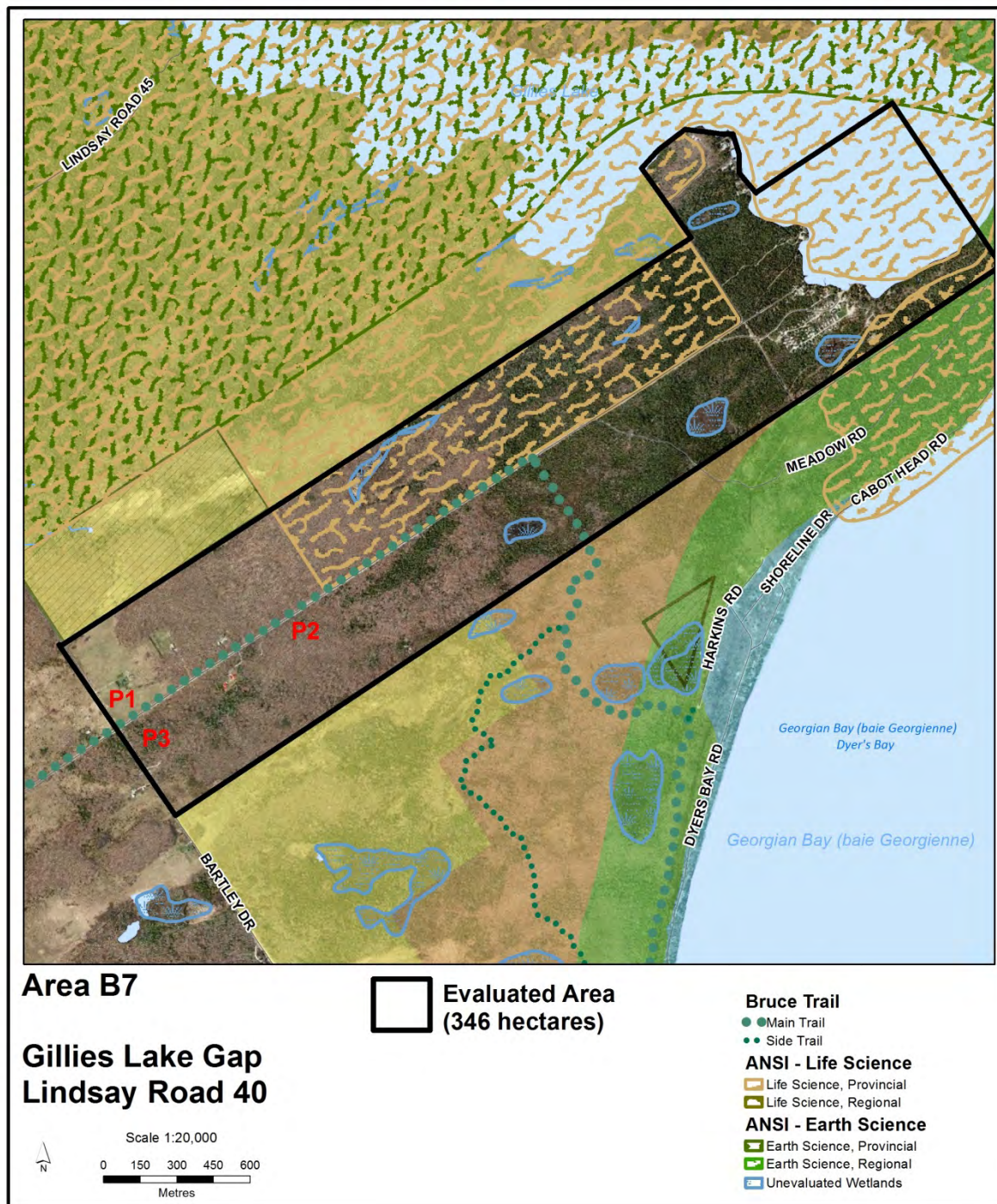
n/a



**B7****Gillies Lake Gap/ Lindsay Road 40**

Municipality of Northern Bruce Peninsula

County of Bruce



**Criteria Met:**

- 1. Lands are within the original NE Planning Area
- 2c. Some land under provincial ownership (Infrastructure Ontario)
- 2d. Cabot Head Life Science ANSI; unevaluated wetland; alvar.
- 2f. Bruce Trail (main trail)

**Description**

Lindsay Road 40 leads to Gillies Lake, where limited shoreline cottage development has taken place. Gillies Lake is one of the deepest inland lakes in Ontario, with a depth of 35 metres at its deepest spot. Gillies Lake drains into the Georgian Bay.

When the original NEP was approved in 1985, the lands on the north and south side of Lindsay Road 40 (west of Bartley Drive) were excluded from the NEP Area. The main trail of the Bruce Trail now parallels Lindsay Road 40.

A portion of the subject area is contained within the Cabot Head Life Science ANSI. The subject area also contains pockets of unevaluated wetland, as well as alvar-like conditions.

**Scenic Ranking**

The subject area has “low” and “average” scenic rankings, which are consistent with the surrounding area including lands already in the NEP Area.

**Photos**

P1 Looking east along Lindsay Rd 40 from Bartley Drive.





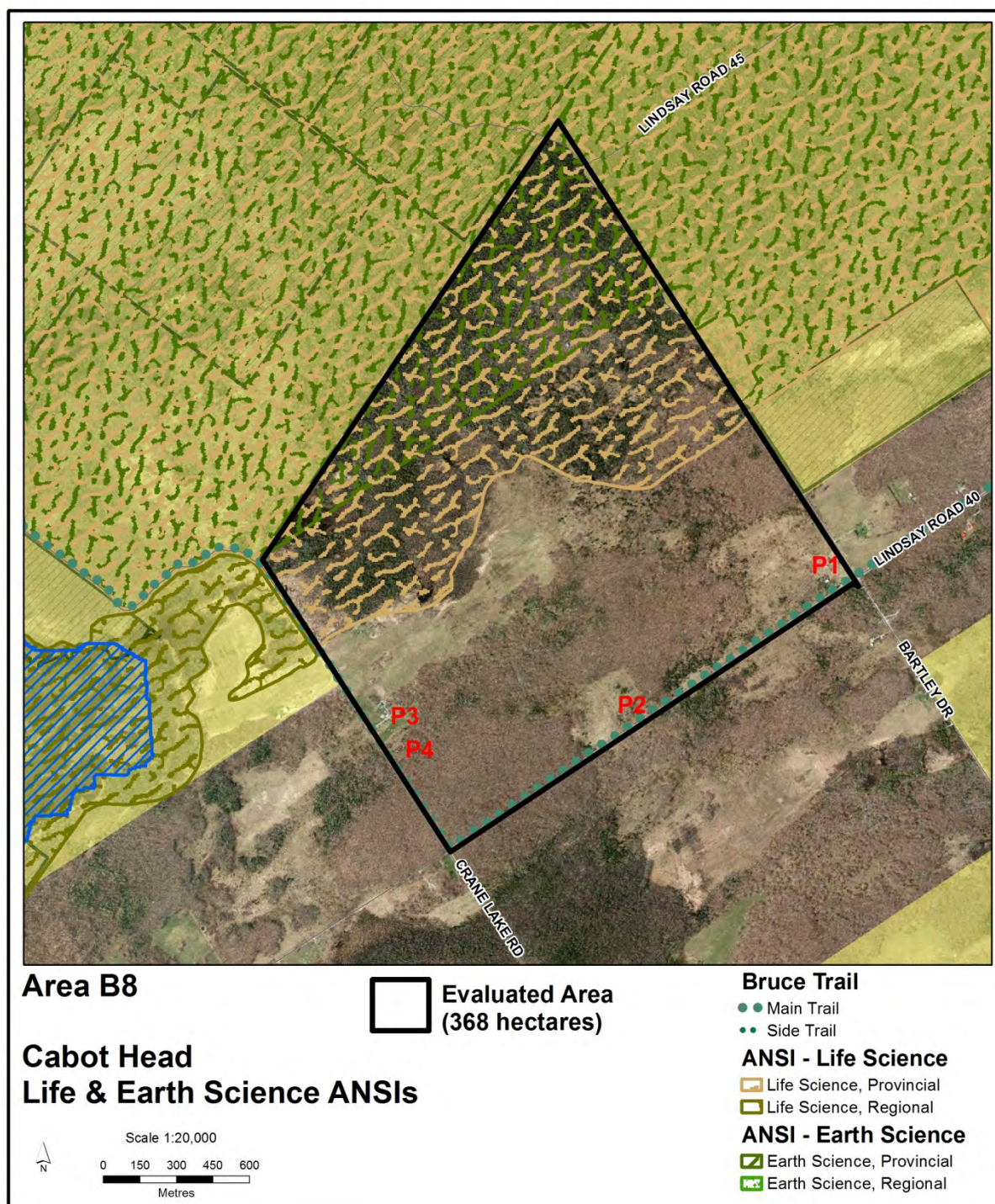
P2 & P3 Alvar and karst conditions along Lindsay Rd 40.



**B8****Cabot Head Life Science ANSI/ Cabot Head Inland Lakes Earth Science ANSI**

Municipality of Northern Bruce Peninsula

County of Bruce





**Criteria Met:**

1. Lands are within the original NE Planning Area
- 2b. Cabot Head Inland Lakes Provincial Earth Science ANSI
- 2d. Cabot Head Life Science ANSI
- 2f. Bruce Trail (main trail) borders parcel to west and south)

**Description**

The Cabot Head Life Science ANSI supports 514 vascular plant species including 10 nationally and provincially rare, 40 regionally rare and 16 locally significant flora. Species at risk (fauna) include the Eastern Massasauga Rattlesnake (threatened) and Eastern bobolink (threatened). While on site in June, NEC staff observed iris versicolor and yellow lady's slipper in full bloom.

The lands to the north of the parcel that are found within the Earth and Life Science ANSIs are of greater natural heritage significance, but the lands to the south bordering on Lindsay Road 40 are pasture land consistent with other lands used for cattle ranching in the Bruce Peninsula. The watercourse and unevaluated wetland in the subject area are the headwaters of Crane Lake and the Crane River. The Crane River drains westward across the Peninsula and into Lake Huron.

The Bruce Trail borders the property to the south and west, running along Lindsay Road 40 and Crane Lake Road, respectively. The Bruce Trail and Lindsay Road 40 provide a logical southern boundary for the addition of the subject lands to the NEP Area.

The southwest corner of Lindsay Road 40 and Bartley Drive was initially considered for addition since the lands are similar in character to the lands to the north of Lindsay Road 40.

**Scenic Ranking**

The area has a "low" scenic ranking, which is consistent with the surrounding area including lands already in the NEP Area.

**Recommendation**

The subject area should be added to the NEP for several reason:

- To include all parts of the Earth and Life Science ANSIs in the NEP Area and to provide a rural buffer to these sensitive areas
- To include the Bruce Trail within the NEP Area
- To protect headwaters of the Crane River

## Photos



*Pasture land, looking northwest from Bartley Road*



*Yellow lady's slipper*



*Iris versicolor*



*Unevaluated wetland, looking northeast from Crane Lake Road*