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## **Environmental Impact Study**

## Flato Ida, Dundalk, Ontario

## Flato Ida Dundalk Inc.

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Making Sustainability Happen

#### **Revision Record**

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## 1.0 Introduction

SLR Consulting (Canada) was retained by Flato Ida Dundalk Inc. (Flato) to undertake environmental investigations at 752226, 752240, and 752242 Ida Street located in Dundalk, Ontario in support of proposals for residential development within these properties ("site", Figure 1). The southeast half of the subject lands fall under the jurisdiction of the Grand River Conservation Authority (GRCA) and the northwest half is under the jurisdiction of Saugeen Conservation (SVCA). GRCA indicated early in the process that they would take the lead in the review.

These lands fall within a larger area currently subject to an approved Ministerial Zoning Order (MZO). The development of these subject lands will be phased.

#### 1.1 Goals and Objectives

The purpose of the environmental impact study (EIS) is to demonstrate that the proposed development conforms with the policies, guidelines, and regulations that apply to these lands in the Official Plans of the Township of Southgate and Grey County, *Provincial Policy Statement* under the *Planning Act, 1990*, and the GRCA (2005) *Environmental Impact Study Guidelines and Submission Standards for Wetlands*. The objectives of this study include the following:

- Characterize existing conditions
- Identify significant natural heritage features, functions, and sensitivities
- Assess potential effects associated with the proposed development
- Apply mitigation strategies and techniques to minimize potential effects and show consistency with the natural heritage policy and legislative framework that applies to these lands
- Recommend whether the proposed Draft Plan of Subdivision (DPOS) can proceed with appropriate mitigation and/or compensation if required

#### 1.2 Planning Context

Development on the site is subject to federal, provincial and local environmental Acts, regulations and policies. These documents provide direction and guidance regarding proposed changes in land use and the protection of natural heritage features and functions.

The applicable natural heritage regulatory and policy framework that applies to the site includes:

- Provincial Policy Statement, 2020 (PPS)
- Federal Fisheries Act, 2019
- Migratory Birds Convention Act, 1994
- Endangered Species Act, 2007 (ESA)
- Federal Species at Risk Act, 2002
- Conservation Authorities Act, R.SO. 1990, c. C27
- Township of Southgate (2022) Official Plan
- Grey County (2019) Official Plan



- GRCA (2005) Environmental Impact Study Guidelines and Submission Standards for Wetlands
- Evaluation, Classification and Management of Headwater Drainage Features Guidelines (Toronto and Region Conservation Authority and Credit Valley Conservation, 2014)
- Grey County Forest Management By-law 4341-06

#### 1.3 Site Location and Description

The site is approximately 35 ha and is located southwest of Ida Street and northwest of Highway 9. Natural features on the site include:

- An unevaluated wetland/significant woodland in the southwest end of the site
- Two smaller patches of woodland
- A tributary to the Grand River (headwater drainage feature [HDF]) and its associated floodplain

Development is proposed on approximately 25 ha of the site which includes the entire site except for the unevaluated wetland in the southwest end which will be maintained as an Environmental Protection Area. Please refer to Figure 1.

## 2.0 Methods

This EIS includes a summary of the existing conditions based on a review of secondary source material and preliminary field inventories including vegetation mapping, aquatic resource investigations, targeted wildlife surveys and feature staking exercises with representatives from the GRCA. Existing conditions within the site were evaluated through a review of secondary source material and site investigations by qualified SLR Ecologists between April 24 and September 20, 2022. Recent aerial photographs of the site were obtained and used to assist in field verification. Data collected were integrated to review the natural environment features and functions and identify environmental constraints to the DPOS application.

#### 2.1 Desktop Analysis

A secondary source review was performed to characterize the natural environment of the site and identify known natural heritage features and functions within and adjacent to the site. The information presented in **Table 1** was reviewed and used to inform the need for additional field studies and avoid duplication of effort.

<b>Table 1: Information</b>	N Source Summar	ry and Description

Information Source	Data Description
Aerial Imagery	Google Earth
	Ministry of Natural Resources and Forestry (MNRF) imagery from 1954 to 2021
Ontario Geological Survey (OGS) Mapping (OGSEarth; NDMNRF, 2022)	Physiography, topography and soil characteristics of the site

Information Source	Data Description
GRCA (2022) Map Your Property Application	Policies in accordance with Ontario Conservation Authorities Act, R.SO. 1990, c. C27 and regulation limits
Saugeen Conservation (2021) Approximate Regulated and Approximate Screening Areas Mapping Tool	Policies in accordance with Ontario Conservation Authorities Act, R.SO. 1990, c. C27 and regulation limits
MNRF (2023) Natural Heritage Information Centre (NHIC)	Evaluated and unevaluated wetlands, watercourses, woodlands, greenlands, Areas of Natural and Scientific Interest (ANSI), rare species occurrences, plant communities, wetlands, and natural areas information
Bird Studies Canada et al. (2006) Ontario Breeding Bird Atlas (OBBA)	General Avian species and potential Species at Risk (SAR)
Fisheries and Oceans Canada (2022) Aquatic Species at Risk Interactive Map	Online mapping resource to identify potential species at risk occurrences and critical habitat
Ontario Reptile and Amphibian Atlas (Ontario Nature, 2019)	Reptile and amphibian species potentially present in project area
Ontario Butterfly Atlas (Macnaughton et.al. 2021)	Butterfly species potentially present in project area
Ministry of Natural Resources and Forestry (2018) Ontario Species at Risk List (O. Reg. 230/08)	SAR list and current status ratings
Township of Southgate (2022) Official Plan	Environmental protection areas, Greenbelt, natural heritage system and schedules
Grey County (2019) Official Plan	Environmental protection areas, Greenbelt, natural heritage system and schedules

#### 2.2 Agency Correspondence

A Terms of Reference (ToR) was submitted to the GRCA and SVCA on June 8<sup>th</sup>, 2022 for review and comment. Comments were received on July 7<sup>th</sup>, 2022 and an updated ToR was submitted July 28<sup>th</sup>, 2022. The ToR and relevant correspondence can be found in **Appendix A**.

#### 2.3 Field Studies

#### 2.3.1 Terrain and Surficial Geology

To complement the review of OGS mapping, SLR is also completing hydrogeological investigations in support of the proposed project (Figure 2). These investigations are on-going, and findings are reported under separate cover.

#### 2.3.2 Natural Environment

Additional information with respect to fisheries, wildlife and SAR were obtained through preliminary field reconnaissance and targeted field surveys. This information was used to develop the description of the natural environment and to identify potential impacts related to proposed land use changes. **Table 2** provides a summary of site visits and field tasks completed to date.

Table 2:	Summary	y of	Field	Surveys
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Date	Task	Weather	Personnel
April 24,	Amphibian Surveys	Sky: light rain; Beaufort <sup>1</sup> wind: 0;	Joelle Pecora, Megan
2022		Temperature: 19°C	Olson
May 2,	Amphibian Surveys	Sky: overcast; Beaufort wind: 2;	Diane Francis,
2022		Temperature: 9°C	Megan Olson
	Headwater Drainage Feature Assessment	Sky: overcast; Beaufort wind: 2; Temperature: 8°C	Diane Francis
May 30,	Amphibian Surveys	Sky: partly cloudy; Beaufort wind: 2;	Danielle Bourque,
2022		Temperature: 23°C	Fiona Shi
June 1,	Amphibian Surveys	Sky: clear; Beaufort wind: 2;	Joelle Pecora, Fiona
2022		Temperature: 12°C	Shi
June 10, 2022	Headwater Drainage Feature Assessment	Sky: clear ; Beaufort wind: 2; Temperature: 18°C	Danielle Bourque
June 16,	Breeding Bird	Sky: partly cloudy; Beaufort wind: 2;	Jeremy Bensette
2021	Surveys	Temperature: 25°C	
June 28,	Amphibian Surveys	Sky: partly cloudy; Beaufort wind: 2;	Megan Olson,
2022		Temperature: 20°C	Jeremy Bensette
June 29,	Breeding Bird	Sky: overcast; Beaufort wind: 3;	Jeremy Bensette
2022	Surveys	Temperature: 19°C	
August 9, 2022	Jugust 9, D22Headwater Drainage Feature Assessment, Ecological Land Classification, Botanical Inventory, Feature Boundary Pre- stakingSky: overcast and drizzle; Beaufor wind: 3; Temperature: 19°C		Fiona Shi, Diane Francis
August 10, 2022	Ecological Land Classification and Botanical Inventory	Sky: partly cloudy, Beaufort Wind: 3; Temperature: 25°C	Matt Ross, Fiona Shi

Date	Task	Weather	Personnel			
September 20, 2022	Feature Boundary Confirmation with GRCA	Sky: partly cloudy, Beaufort Wind: 4; Temperature: 19°C	Matt Ross, Richard Baxter (GRCA)			
1The Decutert Wind Cecle is a teal wood to estimate wind conditions [0] Air colm, smaller rises						

The Beaufort Wind Scale is a tool used to estimate wind conditions. [0] Air calm, smoke rises vertically [1] Light air movement, smoke drifts, [2] Wind felt on face, leaves rustle [3] Leaves and small twigs in continual motion, wind extends light flags [4] Wind raises dust, loose paper, moves small branches [5] Small trees begin to sway, white crested wavelets form on inland waters [6] Large branches in motion

#### 2.3.2.1 Fish and Aquatic Habitat

The objective of field investigations was to identify, map, and describe the existing aquatic habitat present on the subject lands.

A review of current and historical aerial imagery of the subject lands identified the potential presence of HDF. Drainage features have undergone evaluation in May, June, and August 2022 using the Rapid Method provided in the Evaluation, Classification and Management of Headwater Drainage Features Guideline (Toronto and Region Conservation Authority and Credit Valley Conservation, 2014). This approach is appropriate for low-sensitivity sites and documents the HDF form and flow conditions, riparian vegetation, and site features that are important components of habitat. Recommended management options for drainage features derive from information collected according to the HDF guidelines.

#### 2.3.2.2 Vegetation Communities

Aerial photography and Land Information Ontario data were used to delineate vegetation communities according to principles of the Ecological Land Classification (ELC) for Southern Ontario: First Approximation and its Application (Lee et. al., 1998). Site investigations were undertaken in 2022 to collect vegetation data at the community level. A split-spoon soil auger was used to sample soil profiles to determine at what point they exhibit hydric properties, i.e., sufficiently saturated to support greater than 50% wetland species.

#### 2.3.2.3 Feature Staking

The pre-staking of features to delineate the boundaries of wetland features and tree dripline of woodland features within the Study Area was undertaken on August 9, 10 and 11, 2022. Feature Staking verification with GRCA was completed on September 20, 2022, however, the verified boundaries have not been surveyed by a land surveyor. The wetland boundary was determined where wetland vegetation dominates the community and the soils exhibit characteristics of at least seasonal saturation as per the definition of wetland in the PPS, 2020.

#### 2.3.2.4 Tree Inventory

An inventory of trees that could be injured or destroyed by the proposed DPOS is planned to assess trees that may be impacted. Trees not protected by a buffer but within 6 m of the property boundary will be included. An arborist report and Tree Inventory and Protection Plan (TIPP) will be prepared under separate cover.

#### 2.3.2.5 Breeding Bird Surveys

The OBBA (Bird Studies Canada et al., 2006) was reviewed to compile a master list of potential birds breeding at the site, which was subsequently analyzed against known available suitable supporting habitat to tailor findings specifically to the existing site conditions.

Breeding bird surveys were undertaken within the recognized surveying window in Ontario for breeding birds (typically June and early July) in 2022. Surveys followed standard methodologies and conditions established by the OBBA (Bird Studies Canada, 2001) (i.e., between 05:30 and 10:00, low winds, no precipitation, and suitable temperatures). Breeding evidence was recorded and classified as possible, probable, or confirmed (e.g., singing male, pair observed or adult carrying food) in accordance with the standard protocols. Where SAR birds were observed, information including sex, behaviour and interaction with other SAR and non-SAR birds were also recorded.

#### 2.3.2.6 Reptile and Amphibian Surveys

Secondary source literature was reviewed to identify known records of reptiles, amphibians, or both, potentially found within the site, including the NHIC database. Amphibian surveys were undertaken to understand the potential presence of breeding amphibians. Targeted surveys for reptiles were not undertaken by SLR as no preliminary triggers were identified.

Calling surveys followed the general methodology of the Bird Studies Canada (2009) Marsh Monitoring Program (MMP) (adapted to site conditions), during appropriate seasons and weather conditions. Established methods sponsored by Environment and Climate Change Canada (2017) for detecting Western Chorus Frog were also used (Blazing Star Environmental, 2020). These methods involved daytime surveys where calls of the Western Chorus Frog are more detectable and not drowned out by the loud calls of the Spring Peeper (*Pseudacris crucifer*) which typically call at night.

Survey times were coordinated with several other ecologists throughout Southern Ontario via email circulation to assist surveyors in targeting the prime breeding window for early and late breeders targeting Western Chorus Frog (*Pseudacris triseriata*). As climate change has the potential to shift the incidence of calling amphibians, it is increasingly important to coordinate surveys based on weather conditions and seasonal trends. The Beaufort Wind Scale was used to determine whether wind levels were too strong to hear an accurate representation of amphibians occupying the site. A reference site was used to ensure calling was conducted during appropriate weather conditions and served as a benchmark for amphibian activity (i.e. increase confidence in negative results if calls are not detected at test sites). Calling evidence was recorded on a scale of L0-L3 and interpreted as follows:

- L0 No calling
- L1 Individuals can be accurately counted; calls do not overlap
- L2 Some calls simultaneous, number of individuals can be estimated
- L3 Full chorus, calls overlap, individuals cannot be estimated

#### 2.3.2.7 Incidental Wildlife

All incidental observations were recorded while ecologists were onsite. Evidence of presence was recorded during various field investigations from direct sightings and indirectly from such indicators as calls, nests, tracks, scats, browse and burrows.



#### 2.3.2.8 Species of Conservation Concern

Aquatic and terrestrial species that are designated federally or provincially and are of regional or local interest (e.g. rare to the watershed or municipality) are collectively identified as Species of Conservation Concern. This category also includes species protected under the ESA, 2007. The NHIC Make-A-Map application (Ministry of Natural Resources and Forestry, 2023) and the Fisheries and Oceans Canada (DFO) Distribution Maps for Fish and Mussel Species at Risk (DFO, 2022) were consulted for element occurrences. A habitat-based approach was used to evaluate the potential for Species of Conservation Concern to occur within the site.

With the recent addition of several bat species to the ESA list, a cursory review of site conditions was completed to determine potential habitat. This review was scoped to provide information on possible use and presence within the general context of the site.

#### 2.3.2.9 Significant Wildlife Habitat

Using the criteria outlined in the Significant Wildlife Habitat (SWH) Technical Guide (Ministry of Natural Resources, 2000) and Ecoregion Criteria Schedules 6E (Ministry of Natural Resources and Forestry, 2015), SWH was evaluated as part of the field investigations to evaluate the potential to occur on or adjacent to the site. Under the SWH Criteria, constructed habitat is not to be considered as SWH.

## 3.0 Existing Conditions

The subject properties are characterized by a predominately agricultural landscape containing cultivated lands, with woodland, wetland, and hedgerow features. Three watercourses (HDFs) occur within the boundaries of the subject parcels, while one is present within the Study Area of the proposed DPOS (Figure 1). The following sections describe geological, aquatic, and terrestrial site characteristics.

#### 3.1 Terrain and Surficial Geology

Based on a review of surficial geology maps from the Ontario Geological Survey (OGS), the overburden of the area is composed of the Elma Till which consists of sandy silt to silt deposits that are imperfectly drained.

The underlying bedrock is of the Guelph Formation which consists of Silurian fine to medium crystalline, medium to thick-bedded, porous dolostone of a thickness ranging from 4 to 100 m. The Guelph formation is mainly located in the subsurface of southwestern Ontario but is exposed south and west of the Niagara Escarpment from the Niagara River through the Bruce Peninsula (Jagger Hims Limited and Rowell, 2009). SLR is completing hydrogeological investigations in support of the proposed project, under a separate cover (Figure 2).

Groundwater monitoring results within the wetlands on the southwestern portion of the Site (SLR, 2024) suggest that high water levels are present during the spring, with the low permeable soils providing limited infiltration. During the warmer summer months, the water table drops and no groundwater input is provided to the wetland. However, within the larger wetland/woodland swamp, the soils consist of a more permeable sand and gravel pockets, which collect drainage from the Site (both surface water and groundwater). Due to the limited extent of the surficial sand and gravel zone, the water has no outlet to drain, and results in saturated conditions throughout the year. Additional details are provided in the Hydrogeological Investigation for the Site, provided under separate cover. Fish and Aquatic Habitat



Agricultural lands predominate on the subject properties. Three drainage features occur within the vicinity of the study area identified as permanent features by Land Information Ontario; site observations show that the features flow intermittently. Data supporting the Headwater Drainage Feature evaluation were completed in the spring and summer of 2022.

Observations made in May, June, and August 2022 to characterize potential headwater drainage features associated with the proposed DPOS are summarized in **Appended Table A**. Surface water was observed at segment locations 1-5 during the May visit, while water was observed at locations 1-3 during the June visit. All locations were dry during the August visit. Based on these observations the assessment of the headwater drainage features on the site of the proposed DPOS were classified according to the Headwater Features Guidelines (CVC and TRCA 2014) as follows (Refer to Figure 3):

- Segments 1-5 Mitigation
- Segment 6 No Management Required
- Segment 7 Maintain/Replicate .

#### 3.2 Vegetation Communities

Preliminary mapping of the vegetation communities is provided on (Figure 5) classified using Ecological Land Classification (ELC) (Lee et al., 1998). Each unit is named according to the soil and plant attributes and a code is assigned (e.g. Cultural Woodland, CUW). Wetland is delineated by the survey limit staked in the field as determined by the dominance of wetland vegetation and hydric soils. There are agricultural, woodland and wetland communities located on site, the woodland community located on the north side and the wetland community located in the south portion of the property. Two wetland communities are situated along the south side of the property and another to the northeast of these, separated by a cultural meadow. Deciduous hedgerows occur along some field and site boundaries. A botanical inventory is provided in **Appended Table B**.

In addition to the agricultural fields, farm, and residence, the communities dominated by natural vegetation on and immediately surrounding the Study Area include:

- Dry-Fresh Sugar Maple Deciduous Forest (FOD5-1)
- Willow Mineral Thicket Swamp (SWT2-2)
- Poplar Conifer Mineral Mixed Swamp (SWM3-2)
- Cultural Meadow (CUM 1-1)
- Reed-canary Grass Mineral Meadow Marsh (MAM2-2)
- Hedgerow (HR)

#### 3.2.1 Dry-Fresh Sugar Maple Deciduous Forest (FOD5-1)

This community abuts the north side of the site located along the property boundary. Species include Sugar Maple (*Acer saccharum*), American Beech (*Fagus grandifolia*), Black Cherry (*Prunus serotina*), Apple species (*Malus spp.*), Black Walnut (*Juglans nigra*), Red Spruce (*Picea rubens*) with some Ironwood (*Ostrya virginiana*), American Elm (*Ulmus americana*) and Scots Pine (*Pinus sylvestris*).

#### 3.2.2 Willow Mineral Thicket Swamp (SWT2-2)

This swamp community is situated in the southern portion of the site abutting the property boundary to the south and east, and agricultural lands and cultural meadow to the north and west, respectively. The canopy layer consists of Balsam Poplar (*Populus balsamifera*), White Birch, and Trembling Aspen (*Populus tremuloides*), with Sand Dune Willow (*Salix cordata*), Pussy Willow (*Salix discolor*) and Red-osier Dogwood (*Cornus sericea*) in the sub canopy. Ground cover includes Joe Pye Weed (*Eutrochium purpureum*), Club Rushes (*Scirpus lacustris*), Reed Canary Grass (*Phalaris arundinacea*), Field Horsetail (*Equisetum arvense*), Swamp Aster (*Symphyotrichum puniceum*), Green Bulrush (*Scirpus atrovirens*), Bluestem Goldenrod (*Solidago arillaris*) and Purple Marshlock (*Comarum palustre*).

This community is predominantly fed by surface water as determined through the collection and interpretation of hydrogeological field data. No significant upward groundwater springs are present, likely because the whole Site sits on a major topographic divide and there is no way to generate upward groundwater pressures. A fluctuating groundwater table helps sustain the vegetation within the wetland, with the water levels within groundwater monitors located adjacent to the wetland near or above surface in the wetter spring months. As the water table drops in the summer months, there is no groundwater contributions to the wetland. However, more porous sand and gravel soils are present at surface within the larger wetland/significant woodland (southern wetland SWT2-2) and is connected at depth to the wetland thicket. Based on existing conditions on Site this feature is regularly impacted by agricultural activities (i.e. mowing/plowing within the feature).

#### 3.2.3 Poplar-Conifer Mineral Mixed Swamp (SWM 3-2)

This large wetland community is located at the south end of the site and extends to the west beyond the property boundary. The canopy layer consists of Trembling Aspen, White Birch, Balsam Poplar, Green Ash (*Fraxinus pennsylvanica*), Black Ash (*Fraxinus nigra*), Tamarack (*Larix laricina*), Balsam Fir (*Abies balsamea*), White Spruce (*Picea glauca*), Eastern White Cedar (*Thuja occidentalis*); young ash, spruce, cedar and fir are present in the understory, and in the shrub layer along with Red-osier Dogwood and Alder-leaved Buckthorn (*Rhamnus alnifolia*). Herbaceous cover includes Fowl Mannagrass (*Glyceria striata*), Reed Canary Grass, Joe Pye Weed, Swamp Milkweed (*Asclepias incarnata*), Marsh Fern (*Thelypteris palustris*), Sensitive Fern (*Onoclea sensibilis*), Bladder Sedge (*Carex intumescens*), American Waterhorehound (*Lycopus americanus*) and Bittersweet Nightshade (*Solanum dulcamara*).

This wetland community has a seasonally high groundwater table due to the presence of a sand and gravel substrate layer at surface that connects to the east (southern wetland SWT2-2). However, the proportion of groundwater from the eastern wetland is minimal in comparison to surface water contributions due to the lower permeable till soils surrounding this Mineral Mixed Swamp. The sand and gravel unit is a pocket surrounded by surficial sandy silt till, and therefore has limited capacity to drain. Therefore, water collects within the glaciofluvial pocket and causes saturated conditions within the woodlot for extended periods of time throughout the year.

#### 3.2.4 Cultural Meadow (CUM 1-1)

This community type occurs near the north end of the site adjacent to the cemetery and private property, as well as in the south end adjacent to the wetland communities. Species presents are typical of this community type and include Goldenrod species (*Solidago spp.*), Reed Canary Grass, Wild Carrot (*Daucus carota*), Black-eyed Susan (*Rudbeckia hirta*), Field Sow-thistle (*Sonchus* arvensis), Creeping Wildrye (*Elymus repens*), Bird's-foot Trefoil (*Lotus corniculatus*),



Timothy (*Phleum pratense*), Curly Dock (*Rumex crispus*), Common Milkweed (*Asclepias syriaca*) and Cow Vetch (*Vicia cracca*).

#### 3.2.5 Reed Canary Grass Mineral Meadow Marsh (MAM2-2)

This community occurs adjacent to, as well as an inclusion within the large swamp community in the south end of the site. Species present include Reed Canary Grass, Spotted Joe Pye Weed, Field Horsetail (*Equisetum arvense*), Green Bulrush, Purple Loosestrife (*Lythrum salicaria*), Yellow Sedge (*Carex flava*), Red-osier Dogwood, Dudley's Rush (*Juncus dudleyi*), Grass-leaved Goldenrod (*Euthamia graminifolia*) and Swamp Aster.

#### 3.2.6 Deciduous Hedgerow (HR-D)

These features are generally present at the borders of agricultural fields or along field access laneways and are comprised of a mix of deciduous and coniferous species including Sugar Maple, Apple, Norway Spruce (*Picea abies*), American Elm and Trembling Aspen.

#### 3.3 Tree inventory

A tree inventory is planned to assess trees that may be impacted by the proposed DPOS. An arborist report and Tree Inventory and Protection Plan (TIPP) will be prepared under separate cover at a later stage of the application process and conform to the *Grey County Forest Management By-law 4341-06*.

#### 3.4 Breeding Birds

A review of the OBBA map square 17NJ48 yielded 100 results of birds potentially breeding in the area: the map squares measure 10 km by 10 km, with many of the results unlikely to be present within the site due to a lack of suitable supporting habitat. Review of the NHIC online database yielded potential occurrences for two provincially rare species: Eastern Meadowlark (*Sturnella magna*) and Bobolink (*Dolichonyx oryzivorus*) are provincially ranked as Threatened.

Two breeding bird surveys were completed by SLR on June 16 and 29, 2022, within the designated window (Figure 4). The inventory of wildlife observed on the site is provided in **Appended Table C**. Most of the species recorded are rural/urban tolerant species, typical of cultural and agricultural landscapes and will breed in a variety of disturbed habitats. Observed species include Mourning Dove (*Zenadia macroura*), Northern Flicker (*Colaptes auratus*), Redeyed Vireo (*Vireo olivaceus*), American Robin (*Turdus migratorius*), Song Sparrow (*Melospiza melodia*) and Red-winged Blackbird (*Agelaius phoeniceus*). American Woodcock (*Scolopax minor*) and Wilson's Snipe (*Gallinago delicata*) were heard on site incidentally during HDF surveys.

Eastern Wood-pewee were detected within the mixed swamp wetland habitat. Barn Swallow were observed visiting a likely nesting structure on the adjacent property. This species is known to use old buildings to support nesting behaviour, whereas foraging occurs with meadows, marshes, and open space areas. Barn Swallow are provincially designated as Special Concern. It is likely that the birds are foraging on the subject properties and returning to nests located offsite. Although it is not subject to provisions under the ESA, its habitat is protected as SWH under the PPS, 2020. Bobolink carrying fecal sac, and several individuals actively breeding in hayfields (agricultural) and cultural meadow were observed during both visits. Several individual Eastern Meadowlark carrying food were observed during both site visits. Both species are provincially Threatened.



#### 3.5 Reptiles and Amphibians

Review of the NHIC online database yielded records of three species of concern: Midland Painted Turtle (*Chrysemys picta marginata*), Snapping Turtle (*Chelydra serpentina*) and Eastern Ribbonsnake (*Thamnophis sauritus*).

Suitable habitat for amphibians is present on the subject lands, within wooded wetlands and marsh communities.

Amphibian surveys were conducted in April, May, and June 2022 at strategic locations on the site to provide suitable coverage for detection of calling individuals (Figure 4). SLR conducted separate surveys to capture potential Western Chorus Frog populations as well as a generalized survey to capture all amphibians active during the early and late spring timing windows.

Western Chorus Frog surveys completed detected the presence of the species within or around the property, particularly in association with the large wetland complex that bisects the site and occurs both to the north and south of the site. Species detected during surveys included Spring Peeper (*Pseudacris crucifer*), American Toad (*Anaxyrus americanus*), Gray Tree Frog (*Dryophytes versicolor*) and Green Frog (*Lithobates clamitans*), among others presented in Table 3.

Common Name	Station /	A		Station B			Station C		
Survey Date	Apr-22	May-22	Jun-22	Apr-22	May-22	Jun-22	Apr-22	May-22	Jun-22
Spring Peeper	2 <sup>1</sup>	-	-	-	1	-	3	3	-
American Toad	1	-	-	-	-	-	1	-	-
Green Frog	-	-	1	-	-	1	-	-	-
Wood Frog	-	-	-	-	-	-	-	2	-
Western Chorus Frog	-	-	-	-	-	-	-	1	-

Table 3: 2021 Amphibian Survey Results

#### 3.6 Other Wildlife

Wildlife observed on site by SLR during the 2020 and 2021 field visits were typical of locations in semi-urban environments and agricultural settings (**Appended Table C**). Evidence of Coyote (*Canis latrans*) and White-tailed Deer (*Odocoileus virginianus*) was observed within the site.

Other species of mammals and birds tolerant of urban environments are expected to occur as suitable habitats are present.

#### 3.7 Species of Conservation Concern

The MNRF website provided the following Element Occurrence (EO) records\* for 1km Squares (17NJ4890, 17NJ4889, 17NJ4689 in the vicinity of the site:

- Bobolink (Dolichonyx oryzivorus) provincially designated as Threatened
- Eastern Meadowlark (Sturnella magna) provincially designated as Threatened

Department of Fisheries and Oceans' (DFO) interactive Aquatic Habitat Mapping did not identify the presence of Species at Risk or Critical Habitat within or adjacent to the site.

While no additional element occurrences were recorded for the broad area search there are Species of Conservation Concern that may occur if suitable habitat is present. The species in **Appended Table D** have been identified as having potential habitat affinities within the site. To date, Bobolink, Eastern Meadowlark, Barn Swallow, Eastern Wood-pewee and Monarch have been observed on site, although breeding habitat for Barn Swallow is not present on site.

\*Note: Species at Risk Information is accurate and up to date as of this report (April 2024). New species designations under Ontario Regulation 230/08 (Species at Risk in Ontario List) occur periodically. The owner is responsible to ensure that species and habitats regulated under

<sup>&</sup>lt;sup>1</sup> Denotes amphibian call level

Endangered Species Act (2007) or those described under other policies (i.e. the Migratory Bird Convention Act, Fish and Wildlife Conservation Act) are protected.

#### 3.8 Significant Wildlife Habitat

The significance of an area as wildlife habitat is often difficult to determine at the site-specific level, as the assessment must incorporate information from a wide geographic area and consider other factors such as regional resource patterns and landscape effects. Therefore, under the PPS, the planning authorities have the responsibility to identify and designate Significant Wildlife Habitat (SWH). Wildlife habitat significance includes:

- Seasonal concentration areas (e.g. conifer forests for deer wintering)
- Rare vegetation communities or specialized habitats for wildlife
- Habitats of species of conservation interest, excluding the habitats of endangered and threatened species which are protected under the 2020 PPS and 2007 ESA
- Animal movement corridors

To address this habitat function, criteria for evaluating significant wildlife habitat for Eco-region 6E have been provided by MNRF (2015), the results of which are presented in **Appended Table E**. Field investigations completed to date identified confirmed habitat for Special Concern and Rare Wildlife Species for eastern Wood-pewee and Monarch (Figure 6).

## 4.0 Description of Development

The proposed DPOS consists of single detached (266 units), townhouse (52 units), as well as parkland, open space, associated road and stormwater management facilities (see Appendix B). It should be noted that for the purposes of this application, the development and associated impacts are considered only for the areas associated Flato's development limit. The remainder of the lands (Township lands) will be considered as part of a separate application.

### 5.0 Impact Assessment

#### 5.1 Direct Impacts

Direct impacts include those that have an immediate effect on natural features and are generally associated with site preparation and construction activities, such as vegetation clearing and grubbing, grading, excavation, paving and building of structures.

#### 5.1.1 Environmental Constraints

The DPOS was overlaid on the features and constraints mapping to determine whether residual impacts remain (Figure 7). The figure presents natural features and the wetland boundaries have been verified by GRCA in the field but have not been surveyed. Recommended buffers to natural features are presented in Table 4. The areas of the proposed habitat removals are presented in Table 5.

Policy	Woodland	Wetland	Watercourse	Top of Bank	Floodplain <sup>1</sup>	Hedgerow Trees
Grey County OP	Not specified	30 m	30 m (less with rationale/no negative impacts)	30 m (less with rationale/no negative impacts)	Not identified in the OP	Not identified in the OP
Township of Southgate OP	Not identified in the OP	Not identified in the OP	15 m or 30 m for coldwater stream	Defers to Conservation Authority	Not identified in the OP	Not identified in the OP
GRCA	Not specified	30 m (less with rationale/no negative impacts)	15 m (Superseded by floodplain)	15 m	15 m	GRCA does not regulate individual trees except within the regulatory limit
SVCA	Not specified	30 m (less with rationale/no negative impacts)	15 m (Superseded by floodplain)	15 m	15 m	SVCA does not regulate individual trees except within the regulatory limit
buffers recommended	Not specified	30 m (less with rationale/no negative impacts)	Not represented because other buffers extend further	15 m	15 m	Dictated by tree preservation report

#### Table 4: Recommended Buffers to Natural Features and Structures

<sup>1</sup> A buffer would also be applied to the watercourse however the floodplain and wetland plus buffers far exceeds that constraint therefore it is not illustrated.

Note: grading is generally not allowed within the buffers unless approved. Development is expected to meet existing grades at the limit of the buffer.

Natural Features	Within Development Limit (Flato)	Outside Development Limit (Others/Township)
	Are	a (ha)
Dry-Fresh Sugar Maple Deciduous Forest	0.59	-
Willow Mineral Thicket Swamp	1.28	0.85
Cultural Meadow	2.11	3.58
Total	3.98	4.43

#### Table 5: Areas of Proposed Natural Feature Removal

#### 5.1.2 Fish and Aquatic Habitat

The watercourses identified on site were assessed as HDFs. No fish were observed during field investigations and all the features were found to be dry during the August 2022 assessment. Due to either their contribution to downstream fish habitat through allochthonous transport, or their association with important riparian or terrestrial habitat (e.g. wetlands), appropriate management recommendations are applied to two of the three features to allow their primary functions to be maintained (see Figure 3). The proposed DPOS would remove the HDFs identified on site to accommodate development. The two features assessed as "maintain/replicate" and "mitigation" were identified as shallow swales with no defined channel that provide groundwater recharge or overland flow to offsite natural features. As such, flows and recharge to these features should be maintained through lot level conveyance, LIDs, or stormwater management facilities. With the implementation of appropriate quality control measures, impacts to fish and fish habitat are not expected.

#### 5.1.3 Terrestrial Habitat

The DPOS is predominately situated within agricultural and rural residential lands, although removal of some natural features is anticipated to accommodate the plan. Within Flato's development limit the proposed development will result in the removal of 2.11 ha of Cultural Meadow, 1.28 ha of Willow Mineral Thicket Swamp, all 0.59 ha of Dry-Fresh Sugar Maple Deciduous Forest, and some of the hedgerow features as well as the HDFs located in the southeast and central portions of the site. The HDF assessment identified two of the three features as "maintain/replicate" and "mitigation" due to their contributions to offsite natural features. As such, the overall function of the HDFs should be maintained. As mitigation for the removal of HDFs is to be implemented, the function of offsite features will be maintained, provided appropriate pre and post quality controls are implemented.

The removal of vegetation for site preparation prior to construction should be completed outside of the sensitive timing window for birds and bats (April 1<sup>st</sup>- September 30<sup>th</sup>). Tree removals required for construction will occur in accordance with the *Grey County Forestry Management By-law #4341-06*, and restoration of disturbed areas are to be planted and seeded as per a future landscape restoration plan. A tree preservation plan will be prepared to the satisfaction of the appropriate authority to support the Site Plan Application.

#### 5.1.3.1 Wetlands

The removal of the Willow Mineral Thicket Swamp is proposed. This wetland is not identified on either the County or Township official plan schedules and has not been evaluated by the MNRF and is therefore identified as "other wetlands" under these plans; both OP's state that no development or site alterations are permitted within other wetlands or their adjacent lands unless it has been demonstrated that there will be no negative impacts on the natural features or on their ecological functions.

Under section 28.1.2 of the *Conservation Authorities Act (1990)*, a Conservation Authority is required to issue a permit with or without conditions for a development project authorized under section 34.1 or 47 of the *Planning Act*. These conditions can include those as indicated by subsection 28.1.2 (6) of the CAA "to mitigate:

- a) any effects the development project is likely to have on the control of flooding, erosion, dynamic beaches or unstable soil or bedrock;
- any conditions or circumstances created by the development project that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property; or
- c) any other matters that may be prescribed by regulation."

In addition to the above, subsection (17) states:

"An authority that issues a permit to carry out a development project under this section shall enter into an agreement with respect to the development project with the permit holder and the authority and the permit holder may add a municipality or such other person or entity as they consider appropriate as parties to the agreement..." with subsection (18) stating "An agreement under subsection (17) shall set out actions or requirements that the permit holder must complete or satisfy in order to compensate for ecological impacts and any other impacts that may result from the development project."

Given the policy discussed above, there appears to be opportunity to propose, based on the outcomes of the EIS and Hydrogeological studies, appropriate mitigation measures for the removal of these wetland features, which will ensure there are no negative impacts.

The proposed water balance and Stormwater Management Report (provided under separate cover) indicate that the pre- to post- water balance of the Site and larger western wetland feature will generally be maintained through various controls and mitigation, including an additional outlet. Surface water volumes that would migrate west from the central wetland will be maintained to ensure that the inputs to the larger wetland continue post development. Provided these mitigation measures are in place there will be no anticipated negative impacts to the overall ecological function of the Site (a reduction of 1% is anticipated from pre-development conditions). The proposed Stormwater Management block adjacent to the Environmental Protection Area provides opportunity for enhancement of overall wetland function and creates a more contiguous scenario and transition toward the wetland on site. Removal of this wetland while still maintaining the overall site-wide water balance and feature based water balance to the western wetland allows for opportunities to increase the quality of the water on the Site where current practices include plowing/mowing in the wetland features. Surface water that is typically plowed through will now be directed as stormwater to the Stormwater Management Facility for polishing prior to infiltration into the wetland feature.

The stormwater management facility located adjacent to the Poplar-Conifer Mixed Swamp can be designed with consideration for both its intended function as well as the inclusion of wetland



natural feature elements to provide habitat and offset for the wetland removal. Associated plans including landscape and planting are to be provided at the detailed design stage of the application process.

A 15 m buffer has been proposed for the Poplar-Conifer Mixed Swamp and adjacent Reed Canary Grass Mineral Meadow Marsh. This setback and further details pertaining to mitigation of impacts on lands not part of Flato's development will be discussed in a separate application.

Engineering recommendations include the import of fill to keep the basements above the highwater table. Additionally, as a precaution, each basement should be surrounded by a foundation drain, which is considered normal practice within Township of Southgate. Typically, these are set to a minimum of 0.3 m above the measured high-water table, assuming water levels could rise at some point in the future. The imported fill should be of the same hydraulic conductivity, or greater, than the native soil to prevent "wicking" up the water table to a higher elevation.

#### 5.1.4 Species of Conservation Concern

To date, five provincially listed SAR (Monarch, Eastern Wood-pewee, Barn Swallow, Bobolink and Eastern Meadowlark have been detected on site, and there is the likelihood for SAR bats to occur as well. Of the provincial SAR, both the species and habitat for Bobolink and Eastern Meadowlark are protected under the ESA, 2007, while protection for the remaining three species does not include their habitat as they are listed as Special Concern. Western Chorus Frog, a federally listed SAR was also detected at the site although protection provisions under the federal Species at Risk Act (SARA) do not apply to non-federal lands. Foraging habitat for Monarch is present in meadow and meadow marsh communities on site and any removals can be restored within the setbacks of protected natural features. The current DPOS does not propose the encroachment into or removal of habitat for Eastern Wood-pewee, and removal of the offsite outbuilding providing Barn Swallow nesting habitat is not proposed, therefore, impacts to these species are not anticipated. The removal of 10.4 ha meadow/agricultural field habitat that provides breeding habitat for Bobolink and Eastern Meadowlark will be avoided during the sensitive timing window for birds (April 1<sup>st</sup>- August 31<sup>st</sup>) and the appropriate ESA authorization process under Ontario Regulation 830/21 will be followed. To avoid potential impacts to bats that may be utilizing trees on site, removal of trees should occur outside of the active season for bats which typically occurs between April 1st and September 30th.

#### 5.2 Indirect Impacts

Indirect impacts may occur from the residential occupation of the development and could include the dumping of refuse, encroachment of yards into natural features, and unsanctioned use of natural features for recreation (e.g., trails, parties, etc.). Off-leash or unconfined household pets may disturb the natural features and impact the natural function through disrupting sensitive breeding behaviours or predation of native fauna (e.g., cats hunting wild birds). Stormwater runoff from built-up impermeable areas including roads may contain sediments and pollutants such as oils and hydrocarbons. Overall, these indirect impacts could result in damage to the ecological functions of the natural features through the removal of native species, the introduction and spread of non-native or invasive flora or fauna, and degradation due to pollution.

To minimize the potential for these indirect impacts, mitigations can be implemented to provide physical barriers (i.e. fences), create awareness (education through interpretive signage), provide appropriate avenues for recreation (sanctioned trail system) and enforcement of applicable by-laws. Setbacks identified in the EIS should be restored to provide a buffer to the



existing natural features and ultimately result in an increase in natural area. The addition of an extra pond outlet will allow mitigation for erosion thresholds while still providing the required volumes of water to the wetland. Infiltration is less of a concern for mitigation based on the existing soil and groundwater conditions at the Site. The main mitigation required for function is the total volumes rather than individual runoff and infiltration amounts.

## 6.0 Policy Review and Conformity

The following section describes policies relevant to the natural environment and describes how the natural heritage features identified within this EIS have been addressed. Policy conformity is summarized in **Table 6**.

Table 6: Su	mmary of	Policy	Conformity
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Policy	Conformity	Rationale
Provincial Policy Statement (PPS, 2020)	Conforms	• Although features of provincial interest are identified on the site (significant wildlife habitat) negative impacts to these features are not anticipated should mitigation recommendations be implemented (avoidance/setbacks/restoration)
Grey County Official Plan (2019)	In conformity with natural heritage policies	<ul> <li>EIS describes the features and functions of the subject lands and confirms there are no significant natural heritage features that will be negatively affected by the proposed DPOS</li> <li>DPOS overlies features identified in OP section 7.3 (wetlands). However, negative impacts are not anticipated should mitigation recommendations be implemented</li> </ul>
Township of Southgate Official Plan (2022)	In conformity with natural heritage policies	<ul> <li>DPOS overlies features identified in OP section 6 (wetlands). However, negative impacts are not anticipated should mitigation recommendations be implemented</li> <li>Tree removals will be subject to the appropriate by-law</li> </ul>
Conservation Authorities Act (1990)	In conformity based on policies of Section 28.1.2	• Development approved under Section 47 of the <i>Planning Act</i> (MZO); therefore, the Conservation Authority is required to provide a permit with or without conditions

Policy	Conformity	Rationale
		<ul> <li>An agreement is to be entered into with the authority outlining actions or requirements the permit holder must satisfy regarding compensation for ecological impacts</li> </ul>
Endangered Species Act, 2007(ESA, 2007)	In conformity with the implementation of recommended mitigations	<ul> <li>Potential for SAR bats to occur</li> <li>Habitat for Bobolink and Eastern Meadowlark present on site</li> <li>The appropriate proponent led process to mitigate impacts and compensate for any habitat removed will be followed</li> <li>Under the ESA (Ontario Regulation 830/21) removal of habitat for Bobolink or Eastern Meadowlark must not occur between May 1<sup>st</sup> and July 31<sup>st</sup> of any year</li> </ul>
<i>Migratory Birds Convention Act</i> (MBCA, 1994)	In conformity with the implementation of recommended mitigations	<ul> <li>Vegetation clearing will not occur within the breeding bird period provided under Environment Canada guidance for periods of highest nesting probability (i.e. cannot occur generally between April 1<sup>st</sup> and August 31<sup>st</sup>)</li> </ul>
Fisheries Act (2019)	Conforms	<ul> <li>No fish habitat identified on site of proposed DPOS</li> <li>Flow/recharge input to downstream habitat to be maintained through lot level conveyance, LID and stormwater management facilities</li> </ul>

## 7.0 Conclusions and Recommendations

The following operational constraints and mitigation strategies are recommended for use during the construction phase of this project of the protection of natural heritage feature and functions on and adjacent to the subject lands:

- Tree Preservation Plan (TPP) will be completed to identify appropriate compensation for tree removals.
- Permanent post and page sire or chain-link fence is recommended along the limits of the blocks/lots that abut the wetland which provided adequate protection to the feature. This fencing should be sturdy beyond the typical rebar and sediment fabric fence. Prior to the commencement of construction, the limits of protection areas (buffers) are to be delineated and fenced to avoid inadvertent intrusion of people, machinery, or other activities such as stockpiling of material, dumping and encroachment. Temporary sediment control fencing can be attached to the fencing and must be maintained and remain in place until final grading and landscaping has been completed.
- Grading limits are to respect minimum root protection zones for trees along the woodland and in tree protection zones for trees to be retained beyond the buffers, to be determine in the TPP. Minimum protection of the root zone is measured from the base of the tree to the tree's dripline. Earthworks/grading, stockpiling of material etc. is to be directed away from protection areas. Final Study Area grading and design is to ensure these areas are not encroached upon unless approved by the municipality and/or GRCA where minor grading intrusions may be necessary (e.g. to match grades).
- Vegetation removals associated with construction related activities are to be minimized. Additional tree hording/fencing may be required in consultation with the municipality and/or GRCA to prevent intrusion and stockpiling of materials into the adjacent wetland. No fill should be placed in and around the wetland communities.
- Exposed soils should be re-vegetated as soon as possible with native seed mixes to reduce impact from the construction and invasive species spread.
- To protect Wildlife in general no animals are to be knowing harmed. If wildlife is encountered during construction, work must stop, and animals allowed to disperse on their own. If necessary, the MNRF/MECP or GRCA should be contacted for advice.
- It is the proponent's responsibility to ensure that the works conform to the Migratory Bird Convention Act and Endangered Species Act, 2007 in that no migratory bird(s) or SAR species will be harassed, harmed, killed nor will nests or habitats be destroyed by the proposed work. The recommended avoidance window which includes SAR bats is from April 1<sup>st</sup> to September 30<sup>th</sup>. No avoidance window absolves the proponent or their contractors from contravening the MBCA or ESA. Contravention can occur if vegetation removal and construction activities take place during sensitive timing periods for wildlife. Vegetation removal in preparation for Site grading and construction should take place outside of sensitive timing windows for wildlife species:
  - Breeding bird season per Environment Canada and Climate Change's (ECCC) nesting periods for migratory birds: April 1st to August 31st



- o Bat maternity season: April 1st to September 30th
- Under the ESA (Ontario Regulation 830/21) removal of habitat for Bobolink or Eastern Meadowlark must not occur between May 1<sup>st</sup> and July 31<sup>st</sup> of any year
- Avoidance windows simply highlight the most likely season when encounters are likely. If a nest egg, fledging or SAR species is encountered work must stop and the appropriate agency (e.g., Environment Canada (MBCA) or, MECP (SAR) consulted for advice.
- Restoration within and adjacent to natural heritage features is proposed. This can include areas seeded with native species meadow mix (suitable for this growing region and soils). Native Milkweed should be incorporated into buffer planting seed mix and where possible other natural areas on the property. Planting of species native to the region within locations of suitable ecological conditions, including the proposed stormwater management facilities, is also recommended to enhance existing natural features.
- Landscaping and planting plans to be provided at the detailed design stage of submission.
- The landscaping plan should include native plant species where possible to provide habitat for SAR insects.
- Construction monitoring by an ecologist/arborist is recommended as part of a monitoring program to be developed with the GRCA.
- All outdoor lighting (including any new street lighting and external lighting on buildings) should be directed toward the ground and away from the natural areas.

## 8.0 Closure

We trust this information will meet your current requirements. Please do not hesitate to contact the undersigned should you have any questions or require additional information.

Regards,

SLR Consulting (Canada) Ltd.

Matthew Ross, B.Sc. Terrestrial Ecologist

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Kim Logan, B.Sc., P.Geo. (Limited), P.Biol. Senior Ecologist

Distribution:

1 electronic copy – Flato Ida Dundalk Inc.

1 electronic copy – SLR Consulting (Canada) Ltd.

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## **Tables**

## **Environmental Impact Study**

Flato Ida, Dundalk, Ontario **Flato Ida Dundalk Inc.** SLR Project No.: 209.30125.00001

May 30, 2024



Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
1	Valued or Contributing Some standing water No Flow	No defined channel	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Mitigation	TREATENT TO SHOW AND

 Table A: Headwater Drainage Feature Observations

Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
2	Valued or Contributing standing water No Flow	No defined channel	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Mitigation	DIRECTOR TERNE DIRECTOR

Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
3	Valued or Contributing Standing water Flow	Somewhat defined channel	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Mitigation	DREFERENCE         LT S SERIE         REGERENCE (S S           II (1)         4899977         IEMTH HOUSE           II (1)         489977         IEMTH HOUSE           II (1)         10000 (S S)         10000 (S S)           II (1)         II (1)         II (1)           II (1)         II (1)         II (1)           II (1)         II (1)         II (1)           II (1)         II (1)
Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
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4	Valued or Contributing Dry	No defined channel	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Mitigation	DIRETTON TRADUCTION COMPANY OF CO

Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
5	Valued or Contributing Flow	Defined Channel	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Mitigation	СТОТИТ 12 5000 СПОНИЦИИ СТОТИТИ СПОНИЦИИ СТОТИТИТИ СПОНИЦИИ СТОТИТИ СПОНИЦИИ СТОТИ СПОНИЦИИ СТОТИТИ СПОНИЦИИ СПОНИЦИИ СПОНИСНИИ СПОНИСНИИ СПОНИЦИИ СПОНИЦИИ СПОНИЦИИ СПОНИСНИ СПОНИ СПОНИЦИИ СПОН

Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
6	Valued or Contributing Dry	Defined Channel (shallow ditch)	Valued Function Meadow	Contributing function allochthonous transport	Limited Function Doesn't connect features	No management required	Direct Tots         171 s47722 4399600         ACURACY 4632 1016           United in the street         Tote 6         2422-95-92           Direct Tots         127 s47631         ACURACY 4 m 2422-95-92           Direct Tots         127 s47631         ACURACY 4 m Datum McSad

Drainage Feature Segment	Hydrology	Hydrology Modifiers	Riparian	Fish Habitat	Terrestrial Habitat	HDF Management Recommendations	Photos
7	Limited or Recharge Dry	Tile Drainage	Valued Function Meadow	Contributing function allochthonous transport	Contributing function Movement corridor	Maintain/Replicate	ACCURACY 6 B DITURN KCSA DITURN KCSA DITUR

### **Table B: Botanical Inventory**

IDA STREET, DUNDALK, ON							
Common Name	Scientific Name	Srank <sup>1</sup>					
Balsam Fir	Abies balsamea	S5					
Red Maple	Acer rubrum	S5					
Sugar Maple	Acer saccharum	S5					
Swamp Milkweed	Asclepias incarnata	S5					
Common Milkweed	Asclepias syriaca	S5					
Paper Birch	Betula papyrifera	S5					
Creeping Bellflower	Campanula rapunculoides	SNA					
Yellow Sedge	Carex flava	S5					
Bladder Sedge	Carex intumescens	S5					
Canada Thistle	Cirsium arvense	SNA					
Marsh Cinquefoil	Comarum palustre	S5					
Alternate-leaved Dogwood	Cornus alternifolia	S5					
Red-osier Dogwood	Cornus sericea	S5					
Wild Carrot	Daucus carota	SNA					
Creeping Wildrye	Elymus repens	SNA					
Field Horsetail	Equisetum arvense	S5					

IDA STREET, DUNDALK, ON							
Common Name	Scientific Name	Srank <sup>1</sup>					
Meadow Horsetail	Equisetum pratense	S5					
Woodland Horsetail	Equisetum sylvaticum	S5					
Grass-leaved Goldenrod	Euthamia graminifolia	S5					
Spotted Joe Pye Weed	Eutrochium maculatum	S5					
American Beech	Fagus grandifolia	S4					
Black Ash	Fraxinus nigra	S4					
Green Ash	Fraxinus pennsylvanica	S4					
Fowl Mannagrass	Glyceria striata	S5					
Black Walnut	Juglans nigra	S4?					
Jointed Rush	Juncus articulatus	S5					
Dudley's Rush	Juncus dudleyi	S5					
American Larch	Larix laricina	S5					
Honeysuckle spp.	Lonicera spp.						
Garden Bird's-foot Trefoil	Lotus corniculatus	SNA					
American Water-horehound	Lycopus americanus	S5					
Purple Loosestrife	Lythrum salicaria	SNA					
Common Apple	Malus pumila	SNA					

IDA STREET, DUNDALK, ON							
Common Name	Scientific Name	Srank <sup>1</sup>					
Sensitive Fern	Onoclea sensibilis	S5					
Eastern Hop-hornbeam	Ostrya virginiana	S5					
Virginia Creeper	Parthenocissus quinquefolia	S4?					
Reed Canary Grass	Phalaris arundinacea	S5					
Common Timothy	Phleum pratense	SNA					
White Spruce	Picea glauca	S5					
Blue Spruce	Picea pungens	SNA					
Red Spruce	Picea rubens	S3					
Scots Pine	Pinus sylvestris	SNA					
Balsam Poplar	Populus balsamifera	S5					
Trembling Aspen	Populus tremuloides	S5					
Silverweed	Potentilla anserina	S5					
Black Cherry	Prunus serotina	S5					
Alder-leaved Buckthorn	Rhamnus alnifolia	S5					
Common Red Raspberry	Rubus idaeus	S5					
Black-eyed Susan	Rudbeckia hirta	S5					
Curly Dock	Rumex crispus	SNA					

IDA STREET, DUNDALK, ON							
Common Name	Scientific Name	Srank <sup>1</sup>					
Sand Dune Willow	Salix cordata	S4					
Pussy Willow	Salix discolor	S5					
Bulrush species	Scirpus spp.						
Dark-green Bulrush	Scirpus atrovirens	S5					
Cottongrass Bulrush	Scirpus cyperinus	S5					
Climbing Nightshade	Solanum dulcamara	SNA					
Tall Goldenrod	Solidago altissima	S5					
Canada Goldenrod	Solidago canadensis	S5					
Rough-stemmed Goldenrod	Solidago rugosa	S5					
Field Sow-thistle	Sonchus arvensis	SNA					
European Mountain-ash	Sorbus aucuparia	SNA					
Aster species	Symphyotrichum spp.						
Panicled Aster	Symphyotrichum lanceolatum	S5					
New England Aster	Symphyotrichum novae-angliae	S5					
Swamp Aster	Symphyotrichum puniceum	S5					
Marsh Fern	Thelypteris palustris	S5					
Eastern White Cedar	Thuja occidentalis	S5					

IDA STREET, DUNDALK, ON							
Common Name	Scientific Name	Srank <sup>1</sup>					
American Elm	Ulmus americana	S5					
Stinging Nettle	Urtica dioica	S5					
Tufted Vetch	Vicia cracca	SNA					
Riverbank Grape	Vitis riparia	S5					

<sup>1</sup>S-Ranks - Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assignedin a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. S1 Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province. S3 Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation. S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors. S5 Secure—Common, widespread, and abundant in the nation or state/province. S#S# Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4). SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites. SNA (Formally SE) Exotic; not believed to be a native component of Ontario's flora.

<sup>2</sup>SARA - Species at Risk Act (S.C. 2002, c. 29) Act current to 2022-02-23 and last amended on 2022-02-03.COSEWIC (Committee on the Status of Endangered Wildlife in Canada)

<sup>3</sup>SARO - ONTARIO REGULATION 230/08 under the Endangered Species Act, 2007 species at risk in Ontario list. Act current 2022-01-26.

### Table C: Wildlife Observations

Common Name	Scientific Name	SRank <sup>1</sup>	SARA <sup>2</sup> cosewic	SARO <sup>3</sup>	Highest Breeding Evidence Observed <sup>4</sup>	Comments
Avifauna						
Alder Flycatcher	Empidonax alnorum	S5B			Т	
American Crow	Corvus brachyrhynchos	S5B,SZN			Н	
American Goldfinch	Carduelis tristis	S5B,SZN			S	
American Redstart	Setophaga ruticilla	S5B			Т	
American Robin	Turdus migratorius	S5B,SZN			Т	
American Woodcock	Scolopax minor	S4B			D	Heard during HDF surveys
Barn Swallow	Hirundo rustica	S5B,SZN	THR SCH 1 THR	THR	Ν	Only foraging in study area; nesting off site
Black-throated Green Warbler	Setophaga virens	S5B			S	
Blue Jay	Cyanocitta cristata	S5			Н	
Bobolink	Dolichonyx oryzivorus	S4B,SZN	THR SCH 1 THR	THR	FS	
Brown-headed Cowbird	Molothrus ater	S4B			Н	
Cedar Waxwing	Bombycilla cedrorum	S5B,SZN			Н	
Chestnut-sided Warbler	Setophaga pensylvanica	S5B			S	
Chipping Sparrow	Spizella passerina	S5B			Т	
Common Grackle	Quiscalus quiscula	S5B,SZN			CF	
Common Yellowthroat	Geothlypis trichas	S5B			Т	
Eastern Meadowlark	Sturnella magna	S4B,S3N	THR SCH 1 THR	THR	CF	

Common Name	Scientific Name	SRank <sup>1</sup>	SARA <sup>2</sup> cosewic	SARO <sup>3</sup>	Highest Breeding Evidence Observed <sup>4</sup>	Comments
Eastern Wood-Pewee	Contopus virens	S4B	SC SCH 1 SC	SC	т	
European Starling	Sturnus vulgaris	SNA			S	
Hairy Woodpecker	Dryobates villosus	S5			Н	
Indigo Bunting	Passerina cyanea	S4B			Т	
Mourning Dove	Zenaida macroura	S5			Т	
Northern Cardinal	Cardinalis cardinalis	S5			Т	
Northern Flicker	Colaptes auratus	S4B			FL	
Red-eyed Vireo	Vireo olivaceus	S5B,SZN			Т	
Red-winged Blackbird	Agelaius phoeniceus	S4			CF	
Savannah Sparrow	Passerculus sandwichensis	S4B			CF	
Song Sparrow	Melospiza melodia	S5B,SZN			Т	
Swamp Sparrow	Melospiza georgiana	S5B,S4N			Т	
Tree Swallow	Tachycineta bicolor	S4B			Н	
White-throated Sparrow	Zonotrichia albicollis	S5			Т	
Winter Wren	Troglodytes hiemalis	S5B,S4N			Н	
Wilson's Snipe	Gallinago delicata	S5B			D	Heard during HDF surveys
Yellow Warbler	Setophaga petechia	S5B			Т	
Herptiles						
American Toad	Anaxyrus americanus	S5			Calling	
Green Frog	Lithobates clamitans	S5			Calling	
Northern Leopard Frog	Lithobates pipiens	S5			Observed	
Spring Peeper	Pseudacris crucifer	S5			Calling	
Western Chorus Frog	Pseudacris maculata pop. 1	S4	THR SCH 1 THR	NAR	Calling	in large wetland to west of site
Wood Frog	Lithobates sylvaticus	S5			Calling	in large wetland to west of site

Common Name	Scientific Name	SRank <sup>1</sup>	SARA <sup>2</sup> COSEWIC	SARO <sup>3</sup>	Highest Breeding Evidence Observed <sup>4</sup>	Comments		
Mammals / Other								
Coyote	Canis latrans	S5			Scat			
White-tailed Deer	Odocoileus virginianus	S5			Tracks			
Monarch	Danaus plexippus	S2N,S4B	END SCH 1 SC	SC	Observed			

15-Ranks - Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario.

**S1** Critically Imperiled—Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.

S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

S3 Vulnerable—Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation. S4 Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**S5** Secure—Common, widespread, and abundant in the nation or state/province.

S#S# Range Rank — A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4). SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SNA (Formally SE) Exotic; not believed to be a native component of Ontario's flora.

<sup>2</sup>SARA - Species at Risk Act (S.C. 2002, c. 29) Act current to 2018-07-05 and last amended on 2018-05-30.

<sup>3</sup>SARO - ONTARIO REGULATION 230/08 under the Endangered Species Act, 2007 species at risk in Ontario list. Act current to 2018-08-01. COSEWIC (Committee on the Status of Endangered Wildlife in Canada) EXT Extinct - A species that no longer exists.

EXP Extirpated - A species no longer existing in the wild in Canada, but occurring elsewhere.

END Endangered - A species facing imminent extirpation or extinction.

THR Threatened - A species likely to become endangered if limiting factors are not reversed.

SC Special Concern (formerly vulnerable) - A species that may become a threatened or an endangered species because of a

combination of biological characteristics and identified threats.

NAR Not At Risk - A species that has been evaluated and found to be not at risk of extinction given the current circumstances.

DD Data Deficient (formerly Indeterminate) - Available information is insufficient to resolve a species' eligibility for assessment or to permit an assessment of the species' risk of extinction.

\* - Species on Schedule 1 of Species At Risk Act (SARA)

### <sup>4</sup>Highest Breeding Evidence Ontario Breeding Bird Atlas: Breeding Evidence Codes

X - Present XX - Heard but not expected to be breeding (e.g. using habitat - foraging) **POSSIBLE** 

H - Species observed in its breeding season in suitable nesting habitat.

S - Singing male(s) present, or breeding calls heard, in suitable nesting habitat in breeding season.

### PROBABLE

**P** - Pair observed in suitable nesting habitat in nesting season

T - Permanent territory presumed through registration of territorial behaviour (song, etc.) on at least two days, a week or more apart, at the same place

D - Courtship or display, including interaction between a male and a female or two males, including courtship feeding or copulations

V - Visiting probably nest site

A - Agitated behabiour or anxiety calls of an adult

B - Brood patch on adult female or cloacal protuberance on adult males

N - Nest building or excavation of nest hole

### CONFIRMED

DD - Distraction display or injury feigning CF - Adult carrying food for young NE - Nest containing eggs

NY - Nest with young seen or heard NU - Used nest or egg shells found (occupied or laid within the period of the survey) FY - Recently fleged young (nidicolous species) or downy young (nidifugous species), including incapable of sustained flight

AE - Adult leaving or entering nest sites in circumstancing indicating occupied nest FS - Adult carrying fecal sac

Common Name <sup>1</sup>	Scientific Name	Designation	Potential for Habitat Affinities to Occur within or Adjacent to the site
Mammals			
<sup>1</sup> Tri-colored Bat	Perimyotis subflavus	Endangered	Yes, suitable habitat in large, open canopied trees exhibiting decay.
			Potential roosting and foraging (woodland features / hedgerows, trees generally).
<sup>1</sup> Little Brown Myotis	Myotis lucifugus	Endangered	Yes, suitable habitat in large, open canopied trees exhibiting decay.
			Potential roosting and foraging (anthropogenic features, woodland features / hedgerows, trees generally).
<sup>1</sup> Northern Myotis	Myotis septentrionalis	Endangered	Yes, suitable habitat in large, open canopied trees exhibiting decay.
			Potential roosting and foraging (woodland features).
Avifauna			
<sup>1</sup> Canada Warbler	Cardellina canadensis	Special Concern	Potential habitat in wooded wetland on and adjacent to the site.
			Species not observed on site.
<sup>1</sup> Eastern Wood- pewee	Contopus virens	Special Concern	Yes, suitable habitat present in woodland features.
			Species observed in mixed swamp wetland habitat on site
<sup>1</sup> Bobolink	Dolichonyx oryzivorus	Threatened	Yes, suitable habitat present In meadow and hayfields
			Species observed meadow and hayfield habitat on site

Table D: Species of Conservation C	Concern Screening Results
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Common Name <sup>1</sup>	Scientific Name	Designation	Potential for Habitat Affinities to Occur within or Adjacent to the site
<sup>1, 2</sup> Eastern Meadowlark	Sturnella magna	Threatened	Yes, suitable habitat present In meadow and hayfields
			Species observed meadow and hayfield habitat on site
<sup>1</sup> Barn Swallow	Hirundo rustica	Special Concern	Suitable foraging habitat on site.
			Species likely nesting on the adjacent property and foraging over study area.
<sup>1</sup> Grasshopper Sparrow	Ammodramus savannarum	Special Concern	Possible, cultural meadow and hayfields present on site.
			Species not observed on site
Herptofauna			
<sup>1</sup> Snapping Turtle	Chelydra serpentina	Special Concern	Wetlands on and adjacent to the site provide potential habitat and movement corridors.
			Species not observed on site
<sup>1</sup> Midland Painted Turtle	Chrysemys picta marginata	*Designated in 2018 by COSEWIC, not legally listed Provincially	Wetlands on and adjacent to the site provide potential habitat and movement corridors.
			Species not observed on site
<sup>1</sup> Eastern Ribbonsnake	Thamnophis sauritus	Special Concern	Wetlands on and adjacent to the site provide potential habitat and movement corridors.
			Species not observed on site
Vegetation			
<sup>1</sup> Butternut	Juglans cinerea	Endangered	Potential habitat present in wooded features, hedgerows
			Species not observed on site.
<sup>1</sup> Black Ash	Fraxinus nigra	Endangered	Potential habitat present in swamp

Common Name <sup>1</sup>	Scientific Name	Designation	Potential for Habitat Affinities to Occur within or Adjacent to the site
			Species observed on site in large mixed swamp wetland at southwest end.
Other			
<sup>1</sup> Rusty-patched Bumble Bee ( <i>Bombus affinis</i> )		Endangered	Possible however degree of habitat alteration and ploughing
<sup>1</sup> Gypsy Cuckoo Bumble Bee <i>(Bombus bohemicus</i> )			makes occurrence unlikely.
<sup>1</sup> Nine-spotted Lady Beetle ( <i>Coccinella novemnotata</i> )			Habitat generalists. Often overlooked. A range of habitats
<sup>1</sup> Transverse Lady Beetle ( <i>Coccinella transversoguttata</i> )			(meadow successional fields, forests, riparian areas, parks)
<sup>1</sup> Yellow-banded Bumble Bee ( <i>Bombus terricola</i> )		Special Concern	
<sup>1</sup> Monarch	Danaus plexippus	Special Concern	Habitat present – meadows suitable for foraging, milkweed present
			Species observed on site.
Source: (1) MNRF, SARO	List. SLR expertise: (2) NHIC	(2024)	

**Designation Status** 

Provincial Status – Species at Risk in Ontario list maintained by the Ontario Ministry of Natural Resources and Forestry, O.Reg. 230/08. Endangered Species Act Regulation OMNR S.O. 2007, Chapter 6. Schedules 1 thru 5.4. O. Reg. 242/08. Regional or Local

Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (NHIC). S3 [Vulnerable] Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

Wildlife Habitat Category <sub>1</sub>	Candidate Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E	Confirmed Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E
Seasonal Concentration	Areas for Wildlife Species	
Waterfowl Stopover Staging Areas (Terrestrial)		No. Suitable habitat not present.
Waterfowl Stopover Staging Areas (Aquatic)	No. Suitable habitat not present.	No. Suitable habitat not present.
Shorebird Migratory Stopover Area	No. Suitable habitat not present.	No. Suitable habitat not present.
Raptor Wintering Area (i.e., used for feeding and /or roosting)	No. Suitable habitat not present.	No. Suitable habitat not present.
Bat Hibernacula	No. Suitable habitat not present.	No. Suitable habitat not present.
Bat Maternity Colonies (Non-SAR)	Yes. Suitable habitat present.	Unconfirmed.
Bat Migratory Stopover Area	No. Suitable habitat not present.	No. Suitable habitat not present.
Turtle Wintering Areas	No. Suitable habitat not present.	No. Suitable habitat not present.
Reptile Hibernaculum	No. Suitable habitat not present.	No. Suitable habitat not present.
Colonially-Nesting Bird Breeding Habitat (Bank and Cliff)	No. Suitable habitat not present.	No. Suitable habitat not present.
Colonially-Nesting Bird Breeding Habitat (Tree/Shrubs)	No. Suitable habitat not present.	No. Suitable habitat not present.
Colonially-Nesting Bird Breeding Habitat (Ground)	No. Suitable habitat not present.	No. Suitable habitat not present.
Migratory Butterfly Stopover Areas	No. Suitable habitat not present.	No. Suitable habitat not present.
Land bird Migratory Stopover Areas	No. Suitable habitat not present.	No. Suitable habitat not present.
Deer Yarding Areas	No. Insufficient coniferous cover.	No. Not Identified by MNRF.
Deer Wintering and Congregation Areas	No. Insufficient coniferous cover.	No. Not Identified by MNRF.
Rare Vegetation Commu	nities	
Cliffs and Talus Slopes, Sand Barren Alvar, Tallgrass Prairie, Savannah	No. Communities not present.	No. Communities not present.

### Table E: Significant Wildlife Habitat Screening

Wildlife Habitat Category <sub>1</sub>	Candidate Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E	Confirmed Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E
Old Growth Forest	No. Communities not present.	No. Communities not present.
Provincially Rare S1, S2 and S3 vegetation communities	No. Communities not present.	No. Communities not present.
Regionally or Locally Rare vegetation communities	No. Communities not present.	No. Communities not present.
Specialized Habitats for	Wildlife	
Waterfowl Nesting Area	No. Suitable habitat not present.	No. Suitable habitat not present.
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Raptor Nesting – Woodland Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Turtle Nesting Areas	No. Suitable habitat not present.	No. Suitable habitat not present.
Seeps and Springs	No. Suitable habitat not present.	No. Suitable habitat not present.
Amphibian Breeding Habitat (Woodland)	Yes. Suitable habitat present.	No. Insufficient numbers of calling amphibians to qualify as SWH.
Amphibian Breeding Habitat (Wetland)	Yes. Suitable habitat present.	No. Insufficient numbers of calling amphibians to qualify as SWH.
Woodland Area-Sensitive Bird Breeding Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Habitats of Species of Co	onservation Concern	
Marsh Bird Breeding Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Open Country Bird Breeding Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Shrub/Early Successional Bird Breeding Habitat	No. Suitable habitat not present.	No. Suitable habitat not present.
Terrestrial Crayfish	Yes. Suitable habitat present.	A burrow observed on site, but on residential property (lawn) and not in suitable ecosite. Therefore, suitable ecosites identified as Candidate SWH
Special Concern and Rare Wildlife Species	Yes. Suitable habitat present.	Confirmed SWH for: Eastern Wood-pewee (SC) in large, wooded wetland; Monarch (SC) in Willow Mineral Thicket Swamp

Wildlife Habitat Category <sub>1</sub>	Candidate Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E	Confirmed Habitat Identified Based on MNDMNRF Criteria for Ecoregion 6E
Animal Movement Corric	lors	
Amphibian Movement Corridors	No. Suitable habitat not present as breeding amphibian SWH not present based on survey results	No. SWH for breeding amphibians not present.
Deer Movement Corridors	No. Suitable habitat not present.	No. Not Identified by MNRF.
<sup>1</sup> Ontario Ministry of Natural Reso	ources. 2015. Significant Wildlife Habitat Criteria Sch	edules for Ecoregion 6E.



## **Figures**

### **Environmental Impact Study**

Flato Ida, Dundalk, Ontario Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 30, 2024







NOTES: BASEDATA: ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO) 50 100 300 m 200 SCALE 1:5,000 RAGE SIZE 11:4.17 NAD 1983 UTM ZONE 17N THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION FLATO IDA DUNDALK INC. FLATO IDA DUNDALK, ONTARIO, CANADA ENVIRONMENTAL IMPACT STUDY HYDROGEOLOGICAL INVESTIGATIONS FIGURE NO: ₩SLR 2 DATE: April 23, 2024 PROJECT NO: 209.V30125.00001

SITE BOUNDARY

MONITORING WELL

MINI-PIEZOMETER

PERMANENT WATERCOURSE











### LEGEND:



SITE BOUNDARY UNEVALUATED WETLAND WATERBODIES PERMANENT WATERCOURSE BREEDING BIRD SURVEYS (TRANSECT) AMPHIBIAN SURVEY LOCATION (2022)

NOTES: BASEDATA: ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0	50	100	200	300 m
		SCALI PAGE S NAD 1983	E 1:5,000 IZE 11 x 17 UTM Zone 17N	
	THIS MA AND S	P IS FOR CONC HOULD NOT BE	EPTUAL PURPOSES ONLY USED FOR NAVIGATION	

FLATO IDA DUNDALK INC. FLATO IDA DUNDALK, ONTARIO, CANADA

ENVIRONMENTAL IMPACT STUDY

### SURVEY LOCATIONS

₩SLR

FIGURE NO: 4

DATE: April 23, 2024 PROJECT NO: 209.V30125.00001



### LEGEND:



SITE BOUNDARY

PERMANENT WATERCOURSE

ECOLOGICAL LAND CLASSIFICATION (SLR CONSULTING, 2022)

ELC Code	ELC Description
Ag	Agriculture
CUM1-1	Dry-Moist Old Field Meadow
FOD5-1	Dry-Fresh Sugar Maple Deciduous Forest
Inst-Cem	Institutional - Cemetery
MAM2-2	Reed Canary Grass Mineral Meadow Marsh
Res	Residential
SWM3-2	Poplar - Conifer Mixed Swamp
SWT2-2	Willow Mineral Thicket Swamp

4889540

### NOTES: BASEDATA: ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0	50	100	200	300 m
		SCALE PAGE S NAD 1983	E 1:5,000 IZE 11 x 17 UTM Zone 17N	
	THIS MA AND S	P IS FOR CONC HOULD NOT BE	EPTUAL PURPOSES ONLY USED FOR NAVIGATION	

FLATO IDA DUNDALK INC. FLATO IDA DUNDALK, ONTARIO, CANADA

ENVIRONMENTAL IMPACT STUDY

### ECOLOGICAL LAND CLASSIFICATION



DATE: April 23, 2024

PROJECT NO: 209.V30125.00001

FIGURE NO:

5



LEGEND:



## SITE BOUNDARY - SITE PLAN (2024-04-30) WATERBODIES PERMANENT WATERCOURSE UNEVALUATED WETLAND CANDIDATE SIGNIFICANT WILDLIFE HABITAT BAT MATERNITY COLONIES TERRESTRIAL CRAYFISH CONFIRMED SIGNIFICANT WILDLIFE HABITAT EASTERN WOOD-PEWEE MONARCH NOTES: BASEDATA: ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO) 50 100 300 m 200 SCALE 1:5,000 RAGE SIZE 11:4.17 NAD 1983 UTM ZONE 17N THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION FLATO IDA DUNDALK INC. FLATO IDA DUNDALK, ONTARIO, CANADA ENVIRONMENTAL IMPACT STUDY SIGNIFICANT WILDLIFE HABITAT FIGURE NO: ₩SLR 6 DATE: April 30, 2024 PROJECT NO: 209.V30125.00001



547120

548120



## LEGEND: SITEBOUNDARY SITE PLAN (2024-04-30) CONSERVATION AUTHORITY ADMINAREA APPROXIMATE SCREENING AREA (SVCA) WATERBODIES PERMANENTWATERCOURSE UNEVALUATED WETLAND SIGNIFICANT WOODLANDS (GREY COUNTY OFFICIAL PLAN (2018)) WOODED ECOLOGICAL LAND CLASSIFICATION WETLAND ECOLOGICAL LAND CLASSIFICATION GRCA STAKED WETLAND BOUNDARY (NOT SURVEYED) BOBOLINK AND EASTERN MEADOWLARK HABITAT NOTES: BASEDATA: ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO) 50 100 300 m 200 SCALE 1:5,000 PAGE SIZE 11 x 17 NAD 1983 UTM Zone 17N THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION FLATO IDA DUNDALK INC. FLATO IDA DUNDALK, ONTARIO, CANADA ENVIRONMENTAL IMPACT STUDY ENVIRONMENTAL CONSTRAINTS AND SITE PLAN FIGURE NO: 尜SLR 7 DATE: April 30, 2024 PROJECT NO: 209.V30125.00001



# Appendix A Correspondence and Terms of Reference

### **Environmental Impact Study**

Flato Ida, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 30, 2024





June 7, 2022 July 27, 2022

Laura Warner Chris Lorenz, Resource Planner Grand River Conservation Authority 400 Clyde Road, Box 729 Cambridge, ON N1R 5W6

Brandi WalterMichael Oberle, Environmental Planning Coordinator

Saugeen Conservation 261123 Grey Road 28 RR1 Hanover, ON N4N 3B8

SLR Project No.: 209.30125.00001

## RE: Terms of Reference - Scoped Environmental Impact Study 752226, 752240, and 752242 Ida Street, Dundalk, Ontario

SLR Consulting (Canada) Ltd. (SLR) is pleased to submit this Terms of Reference (ToR) on behalf of Flato Developments Inc. outlining the tasks required to complete a Scoped Environmental Impact Study (EIS) and Tree Inventory and Preservation Plan (TIPP) for 752226, 752240, and 752242 Ida Street in Dundalk, Ontario (Site). The northeast half of the Site falls under the jurisdiction of the Grand River Conservation Authority (GRCA) and the southwest half of the Site is under the jurisdiction of Saugeen Conservation (SVCA).

### **Project Understanding**

SLR understands that the Site is proposed for development into a residential subdivision and is subject to a Ministerial Zoning Order (MZO). An unevaluated wetland at the southwest end of the Site falls within SVCA regulated lands. A very small (0.03 ha) area associated with a headwater drainage feature (HDF) in the northeast end of the Site falls within GRCA regulated lands. Permits under *Ontario Regulations (O. Reg.) 150/06 (GRCA) and 169/06 (SVCA): Development, Interference with Wetlands and Alterations to Shorelines and Watercourses* are required for any development within regulated areas. The unevaluated wetland at the southwest end of the Site is also identified as significant woodland in the Township of Southgate (2022) Draft Official Plan – Schedule C and the Grey County (2019) Official Plan – Appendix B, Map 2.

The GRCA (2015) *Policies for the Administration of O. Reg. 150/06* and the SVCA (2017) *Environmental Planning and Regulations Policies Manual* state that any development within 30 m of unevaluated or locally significant wetlands (also known as the area of interference) requires permission from the appropriate conservation authority. Setback distances for development near regulated areas surrounding HDF typically require in-field assessment to determine riverine flooding and erosion hazard allowances and valley slopes or meander belt allowance. Staking of the unevaluated wetlands is also typically required.

### Terms of Reference

This ToR has been prepared to frame the study requirements for review by the Township of Southgate, Grey County, SVCA, and GRCA. The ToR was prepared in the context of the following:

- Provincial Policy Statement, 2020
- Federal Fisheries Act, 2019
- Migratory Birds Convention Act, 1994
- Endangered Species Act, 2007
- Federal Species at Risk Act, 2002
- Greenbelt Plan, 2017
- O. Regs. 150/06 and 169/06
- GRCA Planning and Permitting Policies, including GRCA (2015) *Policies for the Administration of O. Reg. 150/06*
- SVCA (2017) Environmental Planning and Regulations Policies Manual
- Township of Southgate and Grey County Official Plans
- GRCA (2005) Environmental Impact Study Guidelines and Submission Standards for Wetlands
- *Evaluation, Classification and Management of Headwater Drainage Features Guidelines* (Toronto and Region Conservation Authority and Credit Valley Conservation, 2014)

Specifically, the tasks to be included within the ToR are:

- Prepare and attend a site meeting with representatives from the Township of Southgate, Grey County, SVCA, and GRCA (if necessary) and stake the major features of the Site (e.g., wetland limits and woodland dripline). <u>Water depths and vegetation species in the pond at the north</u> <u>corner of the Site will be assessed to determine if the pond should be classified as a wetland. If</u> <u>wetlands are determined to be present, their boundaries will be delineated, verified by GRCA,</u> <u>and clearly illustrated in the EIS report. A minimum buffer width and supporting rationale will also</u> <u>be included in the EIS report.</u>
- 2. Compile and synthesize information for the property from existing background documents, studies, and provincial databases including a gap analysis review.
- 3. Undertake scoped seasonal inventories for amphibians, vegetation, and breeding birds (including Species at Risk [SAR]) in accordance with widely accepted provincial standards, review and update vegetation communities in accordance with the provincial Ecological Land Classification system and existing available data, and screen lands for the presence of Butternut (*Juglans cinerea*) trees and other SAR as well as SAR habitat potential.
- 4. We do not anticipate the need for aquatic or fisheries investigations in support of the applications.
- 5. Aerial photography indicates potential drainage across the Site, as well as from the pond in the north corner of the Site to Grey Road 9. The Rapid Method provided in the Evaluation, Classification and Management of Headwater Drainage Features Guidelines (Toronto and Region Conservation Authority and Credit Valley Conservation, 2014) will be applied to assess Headwater Drainage Features (HDF) where appropriate. An early spring visit will confirm whether Evaluation, Classification and Management of Headwater Drainage Features Guidelines (Toronto and Region Conservation Authority and Credit Valley Conservation, 2014) apply to this Site.

- 6. Synthesize the above information and analyze the findings to determine the presence of features and attributes of local and provincial interest under the *Planning Act, 1990* and to the Township of Southgate, Grey County, SVCA, and GRCA.
- 7. Establish appropriate buffers and setbacks for features of significance with reference to the policies and standards of the Township of Southgate, Grey County, SVCA, and GRCA.
- 8. Prepare an EIS report, including GIS generated figures for submission to the Township of Southgate, Grey County, SVCA, and GRCA in support of a final version of the Site Plan application. This report will <u>discuss key conclusions and recommendations fromrely on input from</u> the Hydrogeology Report, the Functional Servicing Report (prepared by Crozier and Associates), and other submission materials. <u>Crozier and Associates is completing a pre- and post-development</u> wetland water balance assessment to demonstrate that wetland hydroperiods will be maintained, restored, or enhanced and that development will not negatively impact the hydrological or ecological functions of the wetlands within the Saugeen River watershed. The EIS will include a discussion of findings by Crozier and Associates.

### Species at Risk

SLR will complete a desktop analysis to review potential for SAR and SAR habitat including species that may be of regional or local significance in accordance with Provincial regulations. This analysis will include accessing the Ministry of Northern Development, Mines, Natural Resources and Forestry's (NDMNRF) digital Land Information Ontario and Natural Heritage Information Centre databases to obtain a list of SAR known to occur in or near the Site and refining the list to relevant species potentially occurring within the Site.

In addition to the desktop screening, SLR will complete targeted SAR surveys for Western Chorus Frog (*Pseudacris triseriata*), bats, and Butternut to inform consultation with the Ministry of the Environment, Conservation and Parks (MECP). The need for additional targeted SAR surveys will be determined in consultation with MECP.

### Staking of Natural Features

In collaboration with the GRCA, SVCA, and Township of Southgate staff, SLR will confirm and stake the appropriate natural feature boundaries that are present on the Site (HDF if present, wetland limits, and woodland dripline). SLR will coordinate with GRCA, SVCA, and Township staff to confirm and agree to the staked limits. GRCA and SVCA regulation and floodplain limits will be included on a figure but will be delineated through air photo interpretation and online sources.

### Arborist Study

The TIPP will conform to the standards and specifications defined under the Township of Southgate Fill/Site Alteration By-law No. 2017-049. The purpose of the TIPP is to provide an inventory and assessment of the trees within the Site, positioned outside of the staked features to be preserved in accordance with applicable procedures and guidelines. SLR will conduct the arborist work in two phases to support preliminary and detailed design work. Phase 1 will include a preliminary investigation to identify potential heritage trees or trees which may be required to be considered for preservation. Preliminary results will be presented in a memorandum. Phase 2 will consist of consultation with the Township (and SVCA/GRCA, if necessary) to refine the area of the detailed arborist work, scope areas of concern to the Township only, and completion of a Buffer Restoration Plan, if required. Once an approved method is confirmed with the Township, an

International Society of Arboriculture (ISA) certified arborist will complete the evaluation under Phase 2 for trees that are recommended for removal or retention within the Site Plan.

### Scoped Environmental Impact Study

The draft Scoped EIS report will include a description of the ecological features and functions that occur on and adjacent to the Site, information on proposed development conditions, constraint mapping (including maximum limits for building envelopes), impact analysis, and potential monitoring requirements. The Scoped EIS will also include recommendations for additional measures (next steps) required to achieve policy conformity and recommended restoration and/or enhancement measures, including thermal mitigation measures and enhanced quality control. The Scoped EIS will be prepared in accordance with the policies outlined in the GRCA (2005) *Environmental Impact Study Guidelines and Submission Standards for Wetlands* and the SVCA (2017) *Environmental Planning and Regulations Policies Manual*.

### Closure

Please confirm that these Terms of Reference for a Scoped EIS meet the intent of the information and study requirements for the subject property as referenced above. If you have any further questions or comments, we look forward to discussing them with you at your earliest convenience.

Yours sincerely,

SLR Consulting (Canada) Ltd.

M. Olson

Megan Olson, M.Sc. Ecologist 416-333-8279 molson@slrconsulting.com

Kit

Kim Logan, B.Sc., P.Geo. (Limited), P.Biol. Senior Ecologist 226-203-7214 klogan@slrconsulting.com

### **Matthew Ross**

From:	Megan Olson
Sent:	June 08, 2022 1:37 PM
То:	planning@svca.on.ca
Cc:	Kim Logan
Subject:	FW: Terms of Reference for Scoped EIS - Dundalk, Ontario
Attachments:	209.30125.00001_Dundalk-Northwest_Terms-of-Reference_2022-06-07.pdf; 209.30125.00003
	_Dundalk-Northeast_Terms-of-Reference_2022-06-07.pdf

Good afternoon,

I previously sent the below email to Brandi Walter but received an automatic reply that she will be on leave until August 2022. Please direct these attachments to the appropriate SVCA contact.

Thanks, Megan Olson



### Megan Olson, M.Sc. Ecologist

**C** +1 416 333 8279

E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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From: Megan Olson <molson@slrconsulting.com>
Sent: June 08, 2022 11:57 AM
To: lwarner@grandriver.ca; b.walter@svca.on.ca
Cc: Kim Logan <klogan@slrconsulting.com>
Subject: Terms of Reference for Scoped EIS - Dundalk, Ontario

Hi Laura and Brandi, Attached are Terms of Reference for two Scoped Environmental Impact Studies at the following locations:

- 752226, 752240, and 752242 Ida Street, Dundalk, Ontario
- Lots 223, 224, 225, and 226, Concessions 1 and 2 W, Dundalk, Ontario

Both sites fall under the jurisdiction of both GRCA and Saugeen Conservation. Please let me know if you have any questions or concerns with the TOR at this time.

Thanks, Megan Olson



### Megan Olson, M.Sc. Ecologist

**C** +1 416 333 8279

E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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#### **Matthew Ross**

From:	Chris Lorenz <clorenz@grandriver.ca></clorenz@grandriver.ca>		
Sent:	August 04, 2022 9:09 AM		
То:	Megan Olson		
Cc:	Kim Logan		
Subject:	RE: Terms of Reference for Scoped EIS - Dundalk, Ontario		

Thank you Megan. GRCA has no further comment.

Chris Lorenz, M.Sc. Resource Planner Grand River Conservation Authority 519-621-2763 ext. 2236

From: Megan Olson <molson@slrconsulting.com>
Sent: July 28, 2022 12:05 PM
To: Chris Lorenz <clorenz@grandriver.ca>
Cc: Kim Logan <klogan@slrconsulting.com>
Subject: RE: Terms of Reference for Scoped EIS - Dundalk, Ontario

Hi Chris,

Thank you for your review and comments – I have addressed your comments in red below and provided an updated version of the Terms of Reference with the requested edits in Track Changes.

Thanks, Megan



### Megan Olson, M.Sc. Ecologist

**C** +1 416 333 8279

E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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From: Chris Lorenz <<u>clorenz@grandriver.ca</u>> Sent: July 07, 2022 9:38 AM To: Megan Olson <<u>molson@slrconsulting.com</u>>

#### Cc: Kim Logan <<u>klogan@slrconsulting.com</u>> Subject: RE: Terms of Reference for Scoped EIS - Dundalk, Ontario

### Hi Megan,

Apologies for the delay. Please find below GRCA comments for the proposed Terms of Reference for the <u>Ida</u> <u>Street</u> sites:

- 1. The terms of reference state that the proposed subdivision development is subject to a Minister's Zoning Order. This should be clarified in the EIS report. Noted this will be stated in the EIS.
- 2. According to the existing map layer, no regulated features are present within the Grand River portion of the study area. However, a pond and headwater drainage feature (HDF) appear to be present at #752212 Ida Street. We agree that the HDF should be assessed using accepted guidelines developed by Credit Valley Conservation (CVC) and Toronto and Region Conservation Authority (TRCA). Agreed this pond and HDF (as well as regulated features indicated on SVCA regulation mapping) are already captured in our HDF program. Item 5 in the TOR has been updated to include this.
- 3. Water depths and vegetation species in the pond should be assessed to determine if this feature is a wetland. If a wetland is determined to be present, it is requested that the boundary be delineated, verified by the GRCA and clearly illustrated in the EIS report. A minimum buffer width and supporting rationale should also be included in the EIS report. Item 1 in the TOR has been updated to include this comment.
- 4. It is requested that the key conclusions and recommendations of related hydrogeological assessments, stormwater management plans, and functional servicing plans be discussed in the EIS report. Item 8 in the TOR has been updated to address this comment more directly.
- 5. The EIS report will need to clearly demonstrate that wetland hydroperiods are maintained, restored, or enhanced. A pre- and post-development wetland water balance assessment will be required to demonstrate that the development will not negatively impact the hydrologic or ecological functions of the wetlands located within the Saugeen River watershed. Item 8 in the TOR has been expanded upon to address this comment.
- 6. The need for thermal mitigation measures and enhanced quality control should be discussed in the EIS. The Scoped Environmental Impact Study section has been updated to include this comment.
- 7. We recommend that all biological surveys (e.g. breeding amphibians, breeding birds, vegetation) be conducted in accordance with widely accepted provincial standards. The need for targeted surveys of species at risk should be determined in consultation with the Ministry of the Environment, Conservation, and Parks. Item 3 and the Species at Risk section of the TOR have been expanded upon to more directly address this comment.
- 8. According to mapping information obtained from the Ministry of Northern Development, Mines, Natural Resources, and Forestry (MNDMNRF), the following fish species have been recorded in the unnamed watercourse:
  - Blacknose Dace, Brassy Minnow, Brook Stickleback, Brown Bullhead, Central Mudminnow, Central Stoneroller, Common Shiner, Creek Chub, Emerald Shiner, Fathead Minnow, Golden Shiner, Iowa Darter, Johnny Darter, Least Darter, Northern Pike, Northern Redbelly Dace, Pumpkinseed, Rainbow Darter, White Sucker
  - Thank you we will include this data in the EIS.

Thanks Megan. Any questions please let me know.

#### Chris Lorenz, M.Sc.

Resource Planner Grand River Conservation Authority

Office: 519-621-2763 ext. 2236

Email: <u>clorenz@grandriver.ca</u> <u>www.grandriver.ca</u> | <u>Connect with us on social</u>

From: Megan Olson <<u>molson@slrconsulting.com</u>>
Sent: June 20, 2022 3:00 PM
To: Chris Lorenz <<u>clorenz@grandriver.ca</u>>
Cc: Kim Logan <<u>klogan@slrconsulting.com</u>>
Subject: RE: Terms of Reference for Scoped EIS - Dundalk, Ontario

Hi Chris,

Apologies for the delay! I have attached maps for two of the three sites for your reference. The third map will follow in a separate email as I received an undeliverable message from GRCA trying to send all three at once.

Thanks! Megan



#### Megan Olson, M.Sc. Ecologist

**C** +1 416 333 8279

E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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From: Chris Lorenz <<u>clorenz@grandriver.ca</u>>
Sent: June 14, 2022 10:16 AM
To: Megan Olson <<u>molson@slrconsulting.com</u>>
Subject: RE: Terms of Reference for Scoped EIS - Dundalk, Ontario

You don't often get email from clorenz@grandriver.ca. Learn why this is important

#### Hi Megan,

I have taken over as resource planner for the north of the watershed and will look after these TORs. I'm hoping you can provide mapping for all three of the TORs you recently provided (2 in Dundalk, 1 in Melancthon) so I can confirm study boundaries.

Thanks,

Chris Lorenz, M.Sc. Resource Planner Grand River Conservation Authority

Office: 519-621-2763 ext. 2236 Email: <u>clorenz@grandriver.ca</u> <u>www.grandriver.ca</u> | <u>Connect with us on social</u>

From: Megan Olson <molson@slrconsulting.com>
Sent: Wednesday, June 8, 2022 11:57 AM
To: Laura Warner lwarner@grandriver.ca>; b.walter@svca.on.ca
Cc: Kim Logan <klogan@slrconsulting.com>
Subject: Terms of Reference for Scoped EIS - Dundalk, Ontario

Hi Laura and Brandi,

Attached are Terms of Reference for two Scoped Environmental Impact Studies at the following locations:

- 752226, 752240, and 752242 Ida Street, Dundalk, Ontario
- Lots 223, 224, 225, and 226, Concessions 1 and 2 W, Dundalk, Ontario

Both sites fall under the jurisdiction of both GRCA and Saugeen Conservation. Please let me know if you have any questions or concerns with the TOR at this time.

Thanks, Megan Olson



#### Megan Olson, M.Sc. Ecologist

C +1 416 333 8279 E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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#### **Matthew Ross**

From:	Megan Olson			
Sent:	June 08, 2022 11:57 AM			
То:	lwarner@grandriver.ca; b.walter@svca.on.ca			
Cc:	Kim Logan			
Subject:	Terms of Reference for Scoped EIS - Dundalk, Ontario			
Attachments:	209.30125.00001_Dundalk-Northwest_Terms-of-Reference_2022-06-07.pdf; 209.30125.00003			
	Dundalk-Northeast Terms-of-Reference 2022-06-07.pdf			

Hi Laura and Brandi,

Attached are Terms of Reference for two Scoped Environmental Impact Studies at the following locations:

- 752226, 752240, and 752242 Ida Street, Dundalk, Ontario
- Lots 223, 224, 225, and 226, Concessions 1 and 2 W, Dundalk, Ontario

Both sites fall under the jurisdiction of both GRCA and Saugeen Conservation. Please let me know if you have any questions or concerns with the TOR at this time.

Thanks, Megan Olson



#### Megan Olson, M.Sc. Ecologist

C +1 416 333 8279 E molson@slrconsulting.com

SLR Consulting (Canada) Ltd. 300 Town Centre Blvd, Suite 200, Markham, ON L3R 5Z6



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# Appendix B Concept Site Plan and Draft Plan

## **Environmental Impact Study**

Flato Ida, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 30, 2024







N:\Southgate\752212 Ida Street, Dundalk — 15184AC\Drawings\Draft Plan\CAD\15184AC — Draft Plan — 2024—04—30.dwg

LAND USE	LOT / BLOCK #	UNITS	AREA
SINGLE DETACHED - 10.1m LOTS	001-266	266	9.454ha
TOWNHOUSE - 6.5m UNITS	267-278	52	1.218ha
FUTURE RESIDENTIAL	279	3	0.101ha
STORMWATER MANAGEMENT AREA	280, 281		2.558ha
SEWAGE PUMPING STATION	282		0.057ha
PARK	283, 284		2.002ha
OPEN SPACE	285		10.796ha
TOWNSHIP LANDS	286		5.011ha
COUNTY LANDS	287		0.065ha
0.3m RESERVE	288-292		0.003ha
FUTURE RIGHT OF WAY	293		0.065ha
RIGHT OF WAY	A, B, C, D, E, F, G		4.610ha
TOTALS		321	35.940ha



Making Sustainability Happen