Dawn Station Solar and BESS Project: Draft Project Description Report

Draft Report

December 8, 2023

Prepared for:
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Project Number:
160901107

Limitations and Sign-off

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Signature

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Executive Summary

Enbridge Inc. is proposing to develop, construct, and operate the Dawn Station Solar and Battery Energy Storage System (BESS) Project (the Project) in the Township of Dawn-Euphemia within the County of Lambton, Ontario. The Project requires a Renewable Energy Approval (REA) as per Ontario Regulation 359/09 (as amended May 2023) (O. Reg. 359/09) - under Part V.0.1 of the Environmental Protection Act. Figure 1, located in Appendix A, illustrates the Project Location in Ontario. The main Project footprint will be located on Bentpath Line, and the full Site Boundary to account for construction logistics is bordered by Cuthbert Road to the east, Bentpath Line to the south, Dawn Valley Road to the west, and a backlot line and the Dawn H facility to the north. Enbridge Inc. has retained Stantec Consulting Ltd. (Stantec) to prepare the REA application, as required under O.Reg. 359/09. The purpose of this draft Project Description Report (PDR) is to provide the Ministry of Environment, Conservation and Parks (MECP) with a preliminary understanding of the Project, including any potentially adverse environmental effects that may result from the Project for the purpose of obtaining a list of Indigenous communities for Aboriginal consultation.

The Project will be a combined solar and BESS facility that will be connected to the adjacent Dawn Station. The Project's solar component will have a maximum installed nameplate capacity of 1-2 megawatt (MW) and the BESS component will have a storage capacity of 1-2 megawatt (MW). The Project is a Class 3 Solar Facility according to subsection 4(1) of O. Reg. 359/09 and will operate as an internal, off-grid energy system. The basic components of the Project include solar panels and racking, inverters and transformers, electrical interconnection, a substation and communications tower, access roads, buildings and structures, perimeter fencing, temporary storage and staging areas, battery cells and modules, battery racks, and battery and power systems.

Potential environmental effects and mitigation measures have been identified, based on preliminary information for the Project, for the construction, operation, and decommissioning phases, and will be updated as the technical studies are completed, including potential effects on and mitigation for:

- Heritage Resources
- Archaeological Resources
- Natural Heritage Resources
- Surface Water and Groundwater
- Air, Odour and Dust
- Noise
- Land Use and Resources
- Provincial and Local Infrastructure
- Public Health and Safety
- Areas Protected Under Provincial Plans and Policies

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Acronyms / Abbreviations

BESS	Battery Energy Storage System
DFO	Fisheries and Oceans Canada
MECP	Ministry of the Environment, Conservation and Parks
MW	Megawatt
O. Reg. 359/09	Ontario Regulation 359/09
PDR	Project Description Report
PV	photovoltaic
REA	Renewable Energy Approval
SCADA	supervisory control and data acquisition
SARA	Species at Risk Act
SCRCA	St. Clair Region Conservation Authority
Stantec	Stantec Consulting Ltd.

1 Introduction

1.1 Project Overview

Enbridge Inc. is proposing to develop, construct, and operate the Dawn Station Solar and Battery Energy Storage System (BESS) Project (the Project) in in the Township of Dawn-Euphemia. The Project requires a Renewable Energy Approval (REA) as per Ontario Regulation 359/09 (as amended May 2023) (O. Reg. 359/09) - under Part V.0.1 of the *Environmental Protection Act*. Enbridge Inc. has retained Stantec Consulting Ltd. (Stantec) to prepare the REA application, as required under O. Reg. 359/09. Figure 1, located in Appendix A, illustrates the Project Location. The main Project footprint will be located on Bentpath Line, and the full Site Boundary to account for construction logistics is bordered by Cuthbert Road to the east, Bentpath Line to the south, Dawn Valley Road to the west, and a backlot line and the Dawn H facility to the north.

The Project will be a combined 1-2 megawatt (MW) Solar and 1-2 MW BESS facility that will be connected to the Dawn Station. The Project will operate as an internal, off-grid energy system. The Project is considered a Class 3 Solar Facility according to subsection 4(1) of O. Reg. 359/09.

1.2 Report Requirements

The purpose of this draft Project Description Report (PDR) is to provide the Ministry of Environment, Conservation and Parks (MECP) with an understanding of the Project, including any potential negative environmental effects that may result from engaging in the Project, and to obtain a list of communities for Aboriginal consultation. This report provides a preliminary description of the Project and will be updated as other technical reports and additional studies progress.

This draft PDR is one component of the REA application for the Project, and has been prepared in accordance with Item 10, Table 1 of O. Reg. 359/09, and the MECP's *Technical Guide to Renewable Energy Approvals* (2023). The following table provides the requirements of the PDR as prescribed in O. Reg. 359/09 and the relevant sections where it can be found in this document.

Table 1.1: Information Required for the Draft Project Description Report

Content	Location within Report
1. Any energy sources to be used to generate electricity at the renewable energy generation facility.	Section 4.2
2. The facilities, equipment or technology that would be used to convert the renewable energy source or any other energy source to electricity.	Section 4.3
3. If applicable, the class of the renewable energy generation facility.	Section 4.4
4. The activities that will be engaged in as part of the renewable energy project.	Section 4.5
5. The name plate capacity of the renewable energy generation facility.	Section 4.6
6. The ownership of the land on which the project location is to be situated.	Section 4.1
7. If the person proposing to engage in the project does not own the land on which the project location is to be situated, a description of the permissions that are required to access the land and whether they have been obtained.	Not applicable
8. Any negative environmental effects that may result from engaging in the project.	Section 5
9. If the project is in respect of a Class 2 wind facility and it is determined that the project location is not on a property described in Column 1 of the Table to section 19, a summary of the matters addressed in making the determination.	Not applicable
10. If the project is in respect of a Class 2 wind facility in respect of which section 20 applies and it is determined that the project location does not meet one of the descriptions set out in subsection 20 (2) or that the project location is not in an area described in subsection 20 (3), a summary of the matters addressed in making the determination.	Not applicable
11. An unbound, well-marked, legible and reproducible map that is an appropriate size to fit on a 215 mm by 280 mm page, showing the project location and the land within 300 m of the project location.	Appendix A

2 Contacts

The proponent for the Project is Enbridge Inc. Enbridge Inc. is a Canadian multi-national pipeline and energy transportation company operating in North America. The office and contact for this Project at Enbridge Inc. is:

Name:	Ryan Park
Title:	Senior Advisor, Environment
Company:	Enbridge Inc.
Address:	20 Bloomfield Road, Chatham, ON N7M 5J5
Phone #:	519-436-4600 ext 5003408
Project Website:	xxxxxxxxxxx
Project Email:	xxxxxxxxxx

The lead consultant for preparation of the REA Application is Stantec Consulting Ltd (Stantec). Stantec provides professional consulting services in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics for infrastructure and facilities projects. The consultant's office and Project contact is:

Name:	Mark Knight
Title:	BC Practice Leader
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3 Authorizations Potentially Required

The potential permits, approvals, and authorizations that may be required for this Project are discussed below. As the Project progresses through the REA process, this information will be updated as required.

3.1 Federal

A federal Environmental Assessment report is not required for the Project, as the proposed facilities are not listed in the *Physical Activities Regulation* under the *Impact Assessment Act* (2019). However, the REA agency consultation program will include any federal departments and agencies typically interested in solar energy and battery storage projects. Authorization requirements will be determined once conceptual plans are complete and additional data has been collected but may include those listed in Table 3.1.

Table 3.1: Key Federal Authorizations

Administering Agency	Permit / Authorization	Rationale
Environment and Climate Change Canada /Fisheries and Oceans Canada (DFO)	Species at Risk Act (SARA) Permit	Permits are required by those persons conducting activities that may affect species listed on Schedule 1 SARA, as extirpated, endangered, or threatened and which contravene the Act's general or critical habitat prohibitions.
DFO	Fisheries Act Authorization	DFO review and possible Fisheries Act authorization is required at watercourse crossings containing species protected under the SARA.

3.2 Provincial

The Project must receive a REA from the MECP to proceed to construction. The REA application includes confirmation from specified Ministries with respect to specific reports included in the application. Additional authorizations may be required at the provincial level to facilitate the development of the Project. Whether these regulatory compliances or authorizations are applicable to this Project will be determined during the REA process or based upon the Project's detailed design.

Table 3.2 lists key provincial authorizations that may be required in addition to the REA.

Table 3.2: Key Provincial Authorizations

Administering Agency	Key Permit / Authorization	Rationale
Ministry of Citizenship and Multiculturalism	Archaeological and Heritage Clearance	Field work required to assess if mitigation is required for archaeological and/or heritage resources.
MECP	Environment Compliance Approval or Environmental Activity Sector Registry	Required if a facility may release contaminants to the air, water, or land that may impact environment and human health. Contaminants include chemicals, waste, wastewater, noise, vibration, and odour.
	Approvals under the *Endangered Species Act*, 2007 (MNR, 2007)	If provincially listed species at risk or their habitat is present.
	Approvals under the *Ontario Water Resources Act* (1990)	Required if water takings of more than 50,000 litres of water per day will occur.
Ministry of Transportation	Highway Corridor Management Permits (building, entrance, sign and encroachment permits)	"If a construction project is located on or near a provincial highway a permit from the MTO may be required. The four types of Highway Corridor Management permits include: 1. Sign (to alter a sign or advertising device on a property within 400m of any provincial right-of-way) 2. Building and Land Use (commercial or residential constructing or renovating of a house / barn / shed, drilling a well, installing a swimming pool or underground storage tank etc. close to or adjacent to a provincial highway) 3. Entrance (you may nor construct an entrance to a provincial highway without an entrance permit) 4. Encroachment (any installation or works, upon, under or within the limits of a provincial highway right-of-way placed by someone other than MTO)"
	Special Vehicle Configuration Permit	Use of non-standard vehicles to transport large components.
	Transportation Plan	Adherence to road safety and suitability.
	Wide or Excess Load Permit	Transportation of large or heavy items on provincial highways.
Ontario Energy Board	Generator license	A license will be needed from the OEB in order to generate electricity.
St. Clair Region Conservation Authority (SCRCA)	Development, Interference with Wetlands, and Alterations to Shorelines and Watercourses Permit	Work within floodplains, water crossings, river or stream valleys, hazardous lands and within or adjacent to wetlands (as per O. Reg. 171/06)

3.3 Municipal

Municipal authorizations required for the Project will be determined in consultation with the Township of Dawn-Euphemia and the County of Lambton. Municipal authorizations may include those listed in Table 3.3.

Table 3.3: Key Municipal Authorizations

Administering Body	Key Permit / Authorization	Rationale
Township of Dawn-Euphemia	Building Permit/Development Application	Compliance with building codes, approval for new construction of structures or facilities.
Township of Dawn-Euphemia	Official Plan/Zoning By-Law Amendment	Compliance with Official Plan and Zoning By-Law requirements.
Township of Dawn-Euphemia	Site Plan Approval	Compliance with site plan requirements.
County of Lambton	Entrance Permit	To construct an entrance from Township and/or County roads.
County of Lambton	Oversize/Overweight Load Moving Permit(s)	Required if the vehicle/load is greater than specified dimensions.
County of Lambton	Woodland Conservation By-Law	Exemption required if requirements of the By-Law cannot be met.

4 Project Information

4.1 Project Location

The Project will be located on Enbridge-owned lands. The legal description of the parcels of land that will be used for the Project will be provided as part of the REA application.

The Project will be located in the Township of Dawn-Euphemia, Ontario. The Project Footprint will contain the main facility components, whereas the Site Boundary will contain construction logistics such as staging and laydown areas. The Project Footprint and Site Boundary will be refined as project planning progresses to optimize the Project layout and reduce potential negative environmental effects. Final boundaries and the locations of structural components will be determined following field studies and Project layout design, and updated figures will be provided in subsequent versions of this PDR.

Lands within 300 m of the Project Location boundary are identified on Figure 1, Appendix A, as required by O. Reg. 359/09 and the MECP's *Technical Guide to Renewable Energy Approvals* (2023).

4.2 Energy Sources

The Project will utilize sunlight as a source of energy which will be stored in an accompanying BESS for energy storage and discharge for activities occurring on-site.

4.3 Project Components

4.3.1 Solar Panels and Racking

The Project will include solar panels and racking, The panels will be installed in a fixed position at a particular angle facing south in rows on a pole-mounted metal solar array racking system. The distance between rows is typically between 5 and 8 feet to avoid shading. The manufacturer and specifications of the solar panels and racking will be selected during the detailed design phase.

4.3.2 Inverters and Transformers

Inverters and transformers will be located along internal access roads in the Project Location. The inverters will convert the direct current (DC) electricity produced by the solar panels to alternating current (AC) electricity and the transformers will step-up the AC electricity from the low-voltage AC output of the inverter. The specifications of the inverters and transformers will be determined by during the detailed design phase.

4.3.3 Electrical Interconnection

From each inverter station, underground 27.6 kilovolt electrical lines will carry the electricity to a single substation (see Section 4.3.4 below). The underground cables would be installed via trenching. Data cabling for a supervisory control and data acquisition (SCADA) system (see Section 4.3.4 below) will also be installed in the same trenches.

4.3.4 Substation and Communications Tower

A substation comprised of switchgear, disconnects, inverter/transformer, auxiliary equipment for metering, and transformer housing will be included in the Project. The final locations of these components will be selected during the detailed design phase. The equipment will be supported by either cast-in place slab-on-grade concrete pads or structural steel piers and the area will be graded and overlaid with stone granular material. The specific make of the electrical equipment, including the main inverter/transformer, will be selected during the detailed design phase. The substation transformer will have secondary spill containment.

The equipment in the substation will include a SCADA system for protection, control and monitoring of the substation and the Project. The substation will be operated, monitored and controlled 24-hours a day via a telecommunication system.

4.3.5 Access Roads

Existing provincial and local roads will be used to transport Project-related components, equipment, and personnel to the Project Location. Internal road networks within the existing Enbridge facility and connections to the Dawn Plant may be constructed for access to the facility. Entrances will be constructed to link the Project Location to the Enbridge facility to the west. These will be used for permanent access. Gravel access roads will be constructed in the Project Location.

4.3.6 Buildings and Structures

An operations and maintenance building is not currently planned for the Project Location. Other existing facilities in the area will be utilized in lieu. There is a possibility that a small permanent structure (such as a container or trailer) would be used for storage, however this will be confirmed during Project design.

4.3.7 Perimeter Fencing

The Project Location will be surrounded with a chain link fence to prevent unauthorized access.

4.3.8 Temporary Storage and Staging Areas

Temporary storage and staging areas will be required during construction for construction trailers, staff parking areas, equipment storage, truck unloading and loading areas and laydown areas for materials and equipment, portable toilets, waste disposal containers and pick-up areas. The general configuration and location of these areas will be determined as part of the REA process.

4.3.9 Battery Cells and Modules

Battery cells and modules will be installed as the main component of the BESS. The installation will include electrolytes, separators, current collectors and terminals. The battery cells will be the primary energy storage component used to store excess energy from the solar panels.

4.3.10 Battery Racks

Battery racks will be required as the securing structures of the battery cells on-site. They may be floor-mounted or wall-mounted. They may also be used as thermal management support for the BESS battery cells.

4.3.11 Battery and Power Systems

A battery management system will include a central controller and voltage monitoring that will be integrated with the power conversation system.

A power conversion system will be installed as the main interface connection between the solar panels and the battery storage component. An inverter, controllers, filters and an accompanying transformer and metering devices will be included in the installation.

4.4 Renewable Energy Generation Facility Class

The proposed solar photovoltaic (PV) grid connected system would be considered a Class 3 Solar Facility under O. Reg.359/09, Section 4. This classification consists of solar facilities with nameplate capacities over 10 kW that are in any location other than mounted on the roof or wall of a building.

4.5 Project Activities

A general overview of the activities during construction, operation, and decommissioning phases of the Project is provided below.

Table 4.1: Key Project Activities

Project Phase	Activities
Construction	Site grading and civil works
	Access road preparation and installation
	Perimeter fencing installed around Project area.
	Foundation work
	Installation of solar panel racking (and foundations)
	Battery cells/modules installation
	Panel installation on the racking
	Installation of concrete foundations for inverters and transformers and substation equipment
	Electrical infrastructure and communication and control systems installed.
	Installation of inverter stations and substation equipment
	Installation of underground electrical lines between solar panels, inverters and substation by trenching
	Reclamation of temporary work areas
	Site landscaping
Operation	Preventative maintenance
	Scheduled equipment maintenance
	Monitoring and control systems including battery health monitoring, temperature, charging.
	Unplanned maintenance and/or equipment replacement
	Panel washing (with water)
	Meter calibrations
	Site/ground maintenance
Decommissioning	Removal of solar panel infrastructure
	Battery module and structural components removal
	Removal of inverter stations, transformers, and communication tower
	Substation, transformer and management systems dismantling.
	Solar panel and battery recycling
	Electronic waste management, salvaging and recycling
	Removal of fencing and roads
	Site grading (dependent upon new proposed use)
	Site restoration in consultation with regulatory bodies

4.6 Nameplate Capacity

The nameplate capacity is the total designed electricity generating capacity of all power generating units (i.e., solar panels) that are part of the facility (MECP, 2023). The total nameplate capacity of the facility's solar component is 1-2 MW and the total storage capacity for the BESS component is 1-2 MW.

4.7 Project Schedule

A preliminary schedule is provided in Table 4.2 and provides an overview of the key milestone dates associated with the Project.

Table 4.2: Project Schedule Overview

Milestone	Approximate Date
Initiate Public REA Process	Fall 2023
Prescribed 30-Day Notice	December 2023
Completion of REA technical studies	Ongoing through to Winter/Spring 2024.
Public Information Meeting 1	January 2024
Final Public Meeting	Summer 2024
REA Application submission to the MECP	Summer 2024
REA Approval (anticipated)	Fall 2024
Start of Construction	Winter 2025
Facility Commissioning	Fall 2025
Decommissioning	TBD based on future operational needs

5 Description of Potential Environmental Effects

The potential negative environmental effects that could occur during construction, operation, and decommissioning a renewable energy facility are well understood and can be typically mitigated through well-known and accepted techniques and practices. The REA process focuses on project-specific issues and potential negative effects as per O. Reg. 359/09 and includes the following:

- Heritage Resources
- Archaeological Resources
- Natural Heritage
- Water Bodies
- Air, Odour, Dust
- Noise
- Land Use and Resources
- Provincial and Local Infrastructure
- Public Health and Safety
- Areas Protected under Provincial Plans and Policies

Preliminary descriptions of the potential negative effects and mitigation measures for the Project during the construction, operation, and decommissioning phases are identified below. More detailed information will be provided as studies are completed throughout the REA process.

5.1 Heritage Resources

5.1.1 Construction, Operation and Decommissioning

A Cultural Heritage Assessment was completed in 2015 in support of previous Dawn facility expansion activities; the Assessment determined that no cultural heritage resources are located in the Site Boundary, although a timber frame barn at 1523 Cuthbert Road is located immediately adjacent to the northeast corner of the Site Boundary. As design progresses, an analysis will be undertaken to determine if any Project impacts may occur to the cultural heritage resource, with mitigation and recommendations to be provided as appropriate.

5.2 Archaeological Resources

5.2.1 Construction, Operation and Decommissioning

A Stage 1-2 Archaeological Assessment was completed in 2015 in support of previous Dawn facility expansion activities; the Assessment determined that no further archaeological assessment is recommended in the Site Boundary. As design progresses an analysis will be undertaken to determine if any archaeological investigations are warranted.

5.3 Natural Heritage

5.3.1 Construction, Operation and Decommissioning

An Environmental Impact Study was completed in 2015 in support of previous Dawn facility expansion activities; the Study determined that the woodlands in the Site Boundary are both significant wetlands and significant wildlife habitat and contain species at risk and habitat for species at risk. Field investigations will be conducted as necessary to supplement results of the Study, and required reporting (i.e., Natural Heritage Report, and Environmental Impact Study) will be prepared as required by O. Reg. 359/09.

The Project Footprint is on agricultural land and may therefore impact grassland breeding bird habitat.

5.4 Surface Water and Groundwater

5.4.1 Water-taking Activities

5.4.1.1 Construction and Decommissioning

Currently, no water taking activities have been identified for construction and decommissioning Project activities.

It is not currently anticipated that Project excavations will intersect groundwater; however, this will be confirmed during the REA process and during detailed design.

5.4.1.2 Operation

No surface water-taking activities are planned as part of the operation of the facility.

5.4.2 Spills

5.4.2.1 Construction, Operation and Decommissioning

Some materials, such as fuel, lubricating oils and other fluids associated with equipment and machinery during construction, maintenance and decommissioning activities have the potential for discharge to the environment through accidental spills. Accidental spills would be spatially limited and short in duration. Protocols to reduce their impact will be outlined in a Spills Response Plan as part of the Emergency Response Plan for the Project.

Operating equipment, such as transformers, containing hazardous material and residual hazardous material will have secondary containment structures to protect the environment in the case of an accidental release. Secondary containment requirements will be specified in the REA.

5.4.3 Surface Water Runoff

5.4.3.1 Construction, Operation and Decommissioning

To maintain water flow to surrounding receiving water bodies and to prevent negative impacts such as siltation, a Stormwater Management Plan will be developed prior to construction. Additional information will be provided in a subsequent version of this PDR.

5.4.4 Water Bodies

5.4.4.1 Construction, Operation and Decommissioning

Aquatic habitat and surveys were completed in 2015 in support of previous Dawn facility expansion activities; the work determined that the Site Boundary contains numerous drains, of which some contain species at risk. Field investigations will be conducted as necessary to supplement results of the previous work, and required reporting (i.e., Water Assessment Report) will be prepared as required by O. Reg. 359/09.

5.4.5 Groundwater

5.4.5.1 Construction and Decommissioning

Currently, no water taking activities have been identified for construction and decommissioning Project activities. This will be confirmed during the REA process and during detailed design.

5.4.5.2 Operation

No ground water-taking activities are planned as part of the operation of the facility.

5.5 Air, Odour and Dust

5.5.1 Construction and Decommissioning

During construction, specific maintenance activities, and decommissioning of the Project, some emissions to air will occur in the form of vehicle exhaust and road dust. The effects are expected to be localized and temporary and will not result in significant adverse effects on local air quality. Typical mitigation measures will be employed such as maintaining vehicles in good working order and, where possible construction equipment would be equipped with emission control devices. Dust emissions would be reduced through standard construction mitigation techniques (e.g., watering for dust).

5.5.2 Operation

During operations minor localized air emissions would occur from the periodic use of personnel vehicles and maintenance equipment over the life of the Project; however, effects are anticipated to be intermittent, of short duration, and highly localized.

5.6 Noise

5.6.1 Construction and Decommissioning

During construction of the Project, noise would be generated by the operation of heavy equipment and associated vehicular traffic at the Project Location and on haul routes. Noise impacts will be localized, temporary, and will be focused during daylight hours.

5.6.2 Operation

Operation of the Project will result in some noise emitted from inverters/transformers, battery modules, and the substation. A Noise Impact Assessment Report will be prepared for the Project in accordance with O. Reg. 359/09 and NPC-300 and submitted as part of the REA application.

5.7 Land Use and Resources

5.7.1 Construction, Operation and Decommissioning

The Project Footprint will be located on land zoned Agricultural, and the Site Boundary will also include land zoned Industrial and Significant Woodlands (Township of Dawn-Euphemia, 2014). No impacts are expected to surrounding land uses, and Enbridge will work with the Township to comply with municipal planning requirements.

5.8 Provincial and Local Infrastructure

5.8.1 Construction and Decommissioning

Infrastructure expected to be used during the Project would be restricted to local roads during construction and decommissioning, with no other municipal services anticipated. Potential negative effects are related to traffic congestion/safety and road damage from construction equipment. The potential increase in traffic along municipal and provincial roads may result in short-term, localized disturbance to traffic patterns or increases in traffic volume. Project-related traffic would be restricted to a limited, defined workforce.

5.8.2 Operation

The only planned activities at the Project Location during operation are general repairs and maintenance, which will require the use of existing local roads for maintenance vehicles. Operations-related traffic from personnel vehicles during regular business hours will be minimal and is unlikely to disturb traffic patterns or result in increases in traffic volume. With the exception of unexpected major maintenance activities, effects on provincial and local infrastructure during operation are anticipated to be intermittent, short-term in duration, and highly localized.

5.9 Public Health and Safety

5.9.1 Construction and Decommissioning

The facility poses minimal risks to public health and safety. Perimeter security fencing will prevent unauthorized access to components of the Project that may pose a hazard. During construction and decommissioning the use of large equipment and machinery and the increase of large vehicles on the local roads may increase public safety risks. Appropriate consultation will be undertaken with the Township of Dawn-Euphemia to help to mitigate any risks.

5.9.2 Operation

The operation of the facility does not produce any emissions to land or water and does not pose a threat to human health. Any noise emissions will be within regulatory limits. An Emergency Response and Communications Plan will be prepared and communicated to Project staff and local emergency authorities as applicable for use in the event of an emergency on-site. This will be discussed further in the Design and Operations Report.

5.10 Areas Protected Under Provincial Plans and Policies

5.10.1 Construction, Operation and Decommissioning

The Project is not proposed to be located on lands covered by the following provincial land use plans: Greenbelt Plan; Lake Simcoe Protection Plan; Oak Ridges Moraine Conservation Plan; and the Niagara Escarpment Plan.

5.11 Summary of Environmental Effects

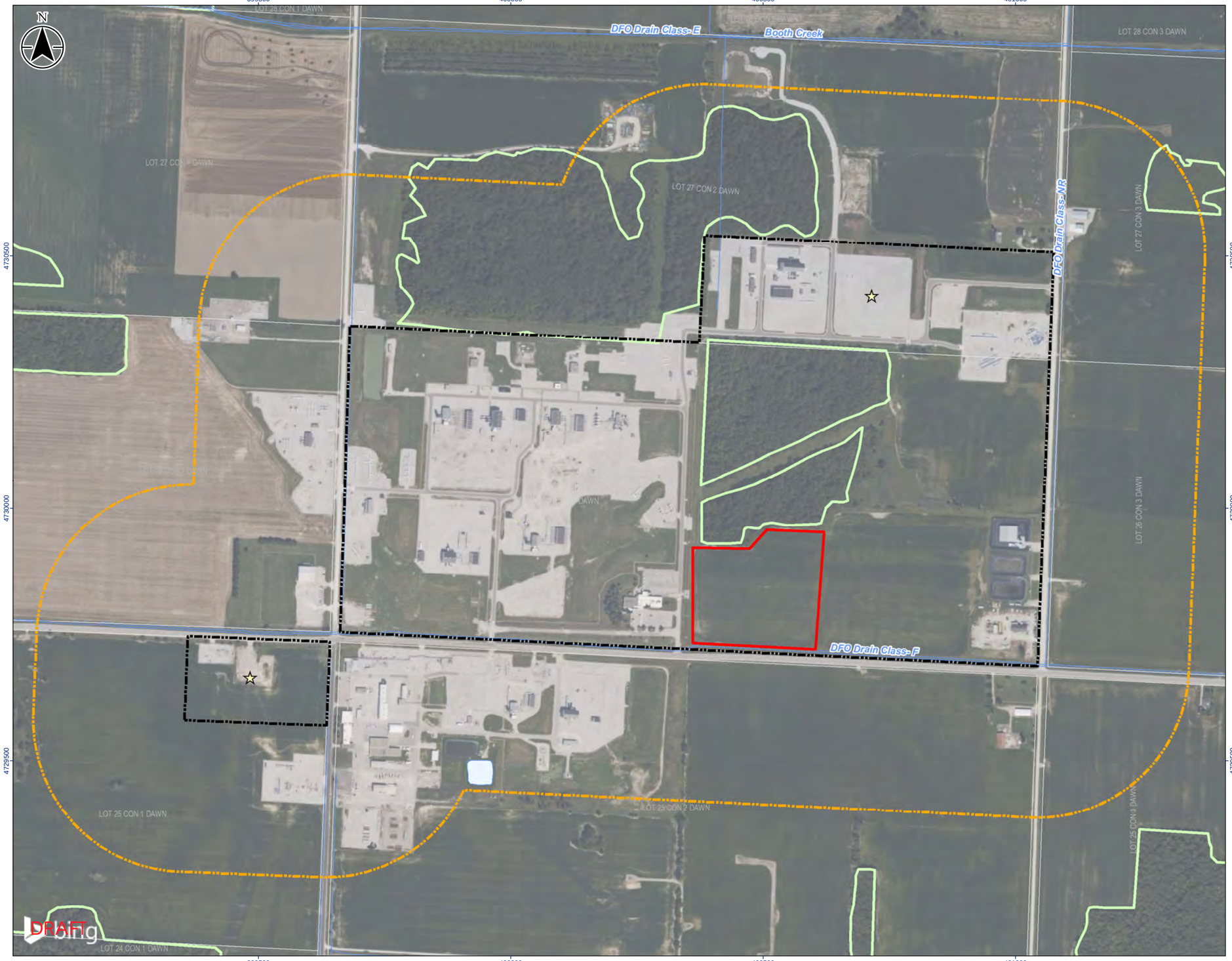
A summary of the potential environmental effects as a result of Project activities will be provided at a later date in the Construction Plan Report and Design and Operations Report, following the completion field work activities. Potential environmental effects at the Project Location and within 300 m of the Project Location will be discussed.

6 References

Township of Dawn-Euphemia. “Zoning By-Law ‘Schedule A’ Part 1 (Bentpath).” Last modified November 24, 2014. https://dawneuphemia.ca/municipal-services/planning/#by-law-54

Appendices

Appendix A Project Location Figure



Stantec

Legend

- Site Boundary
- Project Footprint
- 300m Zone of Investigation
- Potential Laydown Location
- Constructed Drain
- Watercourse (Permanent)
- Waterbody
- Wooded Area

0 190 380 Metres

1:7,750 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2023.
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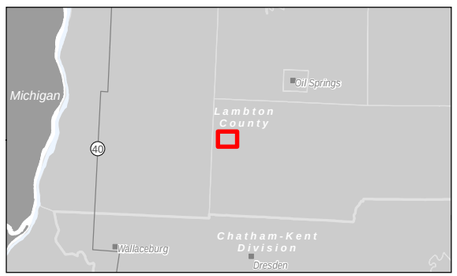

Project Location
Lambton County, ON

160901107 REV4
Prepared by BCC on 2023-10-23

Client/Project
ENBRIDGE GAS INC.
COMBINED SOLAR/BESS
DAWN, ONTARIO

Figure No.
1

DRAFT

Title
Project Location