

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 7558-DSRH2H  
Issue Date: June 29, 2026

Glencore Canada Corporation  
2 Longyear Drive  
Greater Sudbury, Ontario  
P0M 1S0

Site Location: Sudbury INO Smelter  
2 Longyear Drive  
City of Greater Sudbury, District of Sudbury

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

the amendment to the existing sewage works to include proposed installation of new secondary containment system to support upgrades to Substation # 3 which include the installation of two new 34 MVA transformers, located south-western part of the site, for the collection, transmission, treatment and disposal of storm water drainage from a transformer spill containment area and to intercept any oil leakage, consisting of the following Proposed Works:

**Proposed Works:**

- one (1) secondary (EsterWeb) oil containment system (TX-1), to service proposed new 34 MVA Transformer (T1) area located at Substation # 3 on site, having area of approximately 140.3 square metres with 1.20 metre depth, allows for interception of 110% of the potential oil contained in the substation and up to 100-year 24-hour event storm precipitation, having total approximately 47,651 litres of containment volume, and will discharge to ground surface on Smelter property area;
- one (1) secondary (EsterWeb) oil containment system (TX-2), to service proposed new 34 MVA Transformer (T2) area located at Substation # 3 on site, having area of approximately 140.3 square metres with 1.20 metre depth, allows for interception of 110% of the potential oil contained in the substation and up to 100-year 24-hour event storm precipitation, having total approximately 47,651 litres of containment volume, and will discharge to ground surface on Smelter property

area;

### **Existing Works:**

the establishment of sewage works for the collection, transmission, treatment and disposal of storm water drainage from a transformer spill containment area located #1 electrical substation at the above site location, to intercept any oil leakage and up to 50-year 24-hour event storm precipitation, consisting of the following:

- one (1) spill containment area for Transformer (with approximately 19.78 cubic metres of PCB-free oil), of approximately 82.5 square metres, to provide a minimum storage volume of 27.78 cubic metres, equipped with the following:
- oil containment system with a minimum 1.6 metre (m) layer of fire quenching stone (porosity 35%) and a minimum 150 millimetre (mm) layer of surface stone.
- two (2) 100 mm perforated pipes at floor level near south-east and south-west walls to collect flows and discharge to a proposed oil filter, through one (1) 150 mm HDPE drainage pipe.
- one (1) Sorbweb Q-MAX oil filter designed to intercept oil and allow filtered water to pass through, installed at the drainage pipe outlet, eventually discharging to the weak acid pond.

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage Works;

all in accordance with submitted supporting documents listed in **Schedule A**.

*For the purpose of this environmental compliance approval, the following definitions apply:*

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;
3. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
4. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
5. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
6. "Grab sample" is defined in Section 3.1.1 of the Ministry publication, "Protocol For the Sampling and Analysis of Industrial/Municipal Waste Water" dated January 1999, and as amended;

7. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
8. "Owner" means Glencore Canada Corporation and its successors and assignees;
9. "OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;
10. "Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act;
11. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
12. "Quarterly" means four times over a year, relatively evenly spaced where possible, commencing with the start-up of the Works;
13. "Works" means the sewage Works described in the Owner's application, and this Approval, and includes Proposed Works and Existing Works.

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

## **TERMS AND CONDITIONS**

### **1. GENERAL CONDITION**

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.
3. Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the Application.
4. Where there is a conflict between the documents listed in the Schedule A, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
5. The terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this

environmental compliance approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

6. The issuance of, and compliance with the conditions of, this Approval **does not**:
  - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works; or
  - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

## 2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within **five (5) years** of the date of this Approval.

## 3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
  - a. change of Owner or operating authority, or both;
  - b. change of address of Owner or operating authority or address of new Owner or operating authority;
  - c. change of partners where the Owner or operating authority is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* ; and
  - d. change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the "Initial Return" or "Notice of Change" filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , shall be included in the notification to the District Manager.
2. In the event of any change in ownership of the Works, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager.
3. The Owner shall ensure that all communications made pursuant to this condition will refer to this Approval's number.

#### 4. CONSTRUCTION

1. The Owner shall ensure that the design and construction of the Works is supervised by a Professional Engineer.
2. Upon construction of the Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff.
3. Within **six (6) months** of the construction of the Works, a set of as-built drawings showing the Works "as constructed" shall be prepared. These drawings shall be kept up to date through revision undertaken from time to time and a copy shall be retained for the operational life of the Works.

#### 5. OPERATION AND MAINTENANCE

1. The Owner shall ensure that the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained. The Owner shall check the Works on a **monthly basis**, as a minimum, and keep a record of the inspections. Upon the request of the Owner, the District Manager may reduce the frequency of inspection, in writing.
2. The Owner shall use best efforts to immediately identify and clean up all losses of oil from the transformers.
3. The Owner shall, upon identification of a loss of oil, take immediate action to prevent the further occurrence of such loss.
4. In furtherance of, but without limiting the generality of, the obligation imposed by Subsection (1), the Owner shall ensure that equipment and material for the containment, clean up and disposal of oil and materials contaminated with oil are kept on hand and in good repair for immediate use in the event of:
  - a. loss of oil from the transformers and equipment;
  - b. a spill within the meaning of Part X of the EPA; or
  - c. the identification of an abnormal amount of oil in the spill containment system or the oil-water separator.

#### 6. OPERATIONS MANUAL

1. In furtherance of, but without limiting the generality of the obligation imposed by Condition 5, the Owner shall prepare an operations manual prior to the commencement of operation of the Works, that includes, but is not necessarily limited to, the following information:

- a. operating procedures for routine operation of the Works and for periodic self-monitoring of the oil-water separator effluent;
  - b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
  - c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
  - d. a spill prevention, control and countermeasures plan to address loss of oil from transformers and oil discharge offsite, including procedures for notifying the District Manager; and
  - e. procedures for responding to environmental concerns from the public.
2. The Owner shall maintain the operations manual up to date through revisions undertaken from time to time and retain a copy at the location of the Works for as long as they are in operation. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

## **7. EFFLUENT OBJECTIVES**

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials listed as effluent parameters under the effluent objectives table in **Schedule B** are not exceeded in the effluent from the Works.
2. In the event of an exceedence of one of the objectives set out in the effluent objectives table in **Schedule B**, the Owner shall:
  - a. notify the District Manager as soon as possible during normal working hours;
  - b. take immediate action to identify the source of contamination; and
  - c. take immediate action to prevent further exceedence.

## **8. EFFLUENT - VISUAL OBSERVATIONS**

1. Notwithstanding any other Condition in this Approval, the Owner shall ensure, by periodic visual inspection and recording in a log-book, that the effluent from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam or discolouration on the receiving waters.

## **9. SAMPLES AND MEASUREMENTS**

1. The Owner shall ensure that all samples and measurements taken for the purposes of this

Approval are taken at a time and in a location characteristic of the quality and quantity of the effluent stream, over the time period being monitored.

## 10. EFFLUENT MONITORING

1. The Owner shall, upon commencement of operation of the sewage works, carry out a monitoring program, and all samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
2. Samples shall be collected and analyzed of the effluent from the oil filter, at the sampling frequencies and using the sample type specified for each parameter listed in the effluent monitoring table in **Schedule B**.
3. In the event of an exceedence of one of the objectives set out in the effluent monitoring table in **Schedule B**, the Owner shall increase the frequency of sampling to once per month for each month that discharge occurs until it is demonstrated to the District Manager that the effluent complies with the said objectives.
4. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
  - a. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions; and
  - b. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition) as amended from time to time by more recently published editions.

## 11. REPORTING

1. **One week prior** to the start-up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.
2. The Owner shall prepare and submit to the District Manager, a performance report, on an annual basis, within **ninety (90) days** following the end of the period being reported upon. The first such report shall cover the first annual period following the issuance of this Approval and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
  - a. a summary and comprehensive interpretation of all monitoring data and analytical data collective relative to the Works during the reporting period, including an overview of the success and adequacy of the Works;

- b. a description of any operating problems encountered and corrective actions taken;
  - c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
  - d. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
  - e. a summary of the efforts made and results achieved in comparison to the effluent quality objectives in accordance with Condition 7;
  - f. an evaluation of the calibration and maintenance procedures conducted on all monitoring equipment; and
  - g. any other information the District Manager requires from time to time.
3. In addition to the obligations under Part X of the EPA, the Owner shall, within **ten (10) working days** of the occurrence of any reportable spill as defined in *Ontario Regulation 675/98*, loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, or discovery thereof, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation. The District Manager may by written notice waive the requirement of a written report, on a case-by-case basis, when the respective oral report is made.
4. The Owner shall immediately notify the Ministry's Spills Action Centre of any Works failure or potential Works failure, including any spills.
5. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
6. Reporting in accordance with subsections (3) or (4) does not relieve the Owner of any other regulatory or statutory obligations, including its reporting obligations pursuant to Part X of the EPA, nor does it relieve the Owner of any other obligations imposed by this Approval.

## **Schedule A**

1. Application for Environmental Compliance Approval submitted by Glencore Canada Corporation, received on June 21, 2023 for the proposed industrial sewage works, along with all other supporting documents, design brief, final plans and specifications.
2. Previously submitted (Reviewed under existing ECA) application for Environmental Compliance Approval submitted by Laura Mucklow of Sudbury Integrated Nickel Operations (Glencore) received on November 29, 2019 for the proposed Industrial Sewage Works, including Environmental Study Report, design report, final plans and specifications.

## Schedule B

### Effluent Objectives

measured at the discharge outlet from the - Q-Max oil filter

<b>Effluent Parameter</b>	<b>Concentration Objective</b> (milligrams per litre unless otherwise indicated)
Oil and Grease	15
Phenolics (4AAP)	20 ug/L (micrograms per litre)

### Effluent Monitoring Table

<b>Sampling Location (s)</b>	discharge outlet from the - Q-Max oil filter
<b>Frequency</b>	Quarterly
<b>Sample Type</b>	Grab
<b>Parameters</b>	Oil and Grease and Phenolics (4AAP)

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The Works are to be constructed in a timely manner to ensure ongoing protection of the environment.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the Works are made aware of the approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the Works are constructed, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Condition 5 is included to ensure that the Works will be operated and maintained in a manner enabling compliance with the terms and conditions of this Approval, such that the environment is protected and deterioration, loss, injury or damage to any person or property is minimized and/or prevented.
6. Condition 6 is included to ensure that an operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept current by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a bench-mark for Ministry staff when reviewing the Owner's operation of the Works.
7. Condition 7 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to meet on an ongoing basis. Also imposed are procedures to be followed to minimize environmental impact in the event the objectives are exceeded.
8. Condition 8 is imposed to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements, as specified, on a continuous basis, thus minimizing environmental impact on the receiver.
9. Conditions 9 and 10 are related to sampling, monitoring and record keeping. They have been imposed to require the Owner to demonstrate, when required, that the performance of the Works is at a level consistent with the design and effluent objectives specified in the Approval and does not cause any impairment to the receiving watercourse, and that all pertinent information is available for

any future review.

10. Condition 11 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).  
5009-B97LXC issued on March 5, 2019**

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land Tribunal and in accordance with Section 47 of the *Environmental Bill of Rights, 1993*, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be available with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar\*  
Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5  
OLT.Registrar@ontario.ca

and

The Minister of the Environment,  
Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto, Ontario  
M7A 2J3

and

The Director appointed for the purposes of  
Part II.1 of the *Environmental Protection Act*  
Ministry of the Environment,  
Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

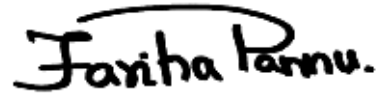
**\* Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or [www.olt.gov.on.ca](http://www.olt.gov.on.ca)**

This instrument is subject to Section 38 of the *Environmental Bill of Rights, 1993*, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at

<https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 29th day of June, 2026



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Fariha Pannu, P.Eng.

Director

appointed for the purposes of Part II.1 of the  
*Environmental Protection Act*

MS/

c: District Manager, MECP Sudbury

Lea Willemse, Sudbury Integrated Nickel Operations (Glencore)