



April 16, 2026

FINAL

Municipality of Magnetawan
4304 Highway 520, P.O. Box 70
Magnetawan, Ontario P0A 1P0

E-mail: clerk@magnetawan.com

Attention: Kerstin Vroom
CAO/Clerk

Re: Waste Fill Plan
Croft Waste Disposal Site, Magnetawan, Ontario
Pinchin File: 225335.007

1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) has been retained by the Municipality of Magnetawan (the Municipality) to prepare a long-term Waste Fill Plan for the Croft Waste Disposal Site (the Site). The following report presents a sequential fill plan for the Site, including detailed drawings to be adhered to by the Municipality's landfill operators during the placement of waste at the Site. Adherence to this plan will ensure that Site operations are conducted to facilitate progressive closure and minimize any potential impact on groundwater or surface water quality, including reduced leachate production while maximizing the available landfill capacity and extending the life of the landfill by ensuring the most effective placement of waste deposits to reach the proposed final closure contour design as outlined in previous investigations.

1.1 Location

The Site is located in Lot 26, Concession 11 within the Municipality of Magnetawan, District of Parry Sound, Ontario and is located approximately 12 kilometres (km) east-northeast of the Township of Magnetawan, Ontario. The Site location is indicated on Figure 1 (all Figures are provided in Appendix I).

2.0 BACKGROUND

The Site is operated under Ministry of the Environment, Conservation and Parks (MECP) Certificate of Approval (CofA, now referred to as an Environmental Compliance Approval (ECA)) Number **A7034002**, dated April 2, 1980. The Site is operated as a domestic landfill for municipal solid, non-hazardous wastes to be utilized by residents of the area. The Site was approved with a total fill area of 2.5 hectares (ha) within a 33.7 ha property. A copy of the CofA is provided in Appendix II.



2.1 Site Document Review

Pinchin reviewed the following reports for the Site during preparation of this Waste Fill Plan:

- Report entitled “*2018 Annual Monitoring Report, Croft Waste Disposal Site, Magnetawan, Ontario*” completed by D.M. Wills Associates Limited for the Corporation of the Municipality of Magnetawan dated March 2019 (the 2018 D.M. Wills Monitoring Report);
- Report entitled “*2024 Annual Monitoring Report, Croft Waste Disposal Site, Magnetawan, Ontario*” completed by Pinchin, dated February 28, 2025; and,
- Report entitled “*2025 Landfill Closure and Post-Closure Care Liability Estimates, Chapman and Croft Waste Disposal Sites, Magnetawan, Ontario*” completed by Pinchin, dated April 2, 2025 (the 2025 Liability Estimate Report).

3.0 SITE CONDITIONS

3.1 Site Layout

The Site is approved with a total fill area of 2.5 hectares (ha). The active landfilling area is located within the northern portion of the Site. Additionally, there is a smaller active cell for construction and demolition (C&D) waste in the southwest corner of the Site. The northern active fill area currently extends to a maximum elevation of 294 metres (m) above sea level (masl) approximately 3 m above the inferred original topography (291 masl). The C&D cell currently extends to a maximum elevation of 296 masl approximately 2 m above the inferred original topography (294 masl); it should be noted that the inferred natural topography slopes down towards the north. The Site is accessed via a gravel road west of 25th & 26th Side Road. The gravel access road extends up a ramp to the top of the historic fill pile providing access to the active tipping face and waste diversion areas and also extends to the south providing access to the C&D disposal cell. Waste bins, an attendant’s building and a propane tank storage area are located on the central portion of the Site; this central area of the Site serves as an operations laydown over the historical fill. A metal collection area is located on the southwest corner of the laydown, and a brush pile is located on the south-central portion of the Site.

The 2018 AMR by D.M. Wills notes that a portion of the active waste cell in the north of the Site was located outside the proposed limits of waste. The current C&D waste deposition area also appears to fall outside the proposed limits of waste for the Site that were presented in the D.M. Wills reporting. Thus, the approved 2.5 ha for landfilling has been adjusted such that the revised waste footprint comprises all historical deposition areas. The revised landfill footprint will minimize operational obligations (i.e., relocating waste) and help facilitate the progressive closure of the Site based on the proposed development within this Waste Fill Plan.



A map illustrating the Site features is provided as Figure 2, and the current topography as of October 2023 is provided as Figure 3.

3.2 Waste Volume

A Site capacity survey completed by D.M. Wills on November 1, 2018, resulted in an estimated remaining waste capacity of 23,565 cubic metres (m³) and approximate remaining life expectancy of 39 years, assuming a theoretical maximum Site capacity of 138,850 m³.

Pinchin completed a topographic survey of the Site on June 12, 2019, using an Unmanned Aerial Vehicle (UAV) for the purpose of calculating the remaining waste capacity and lifespan for the Site. In comparing the 2018 and 2019 surveys, Pinchin estimated that approximately 300 m³ of waste had been deposited at the Site resulting in an estimated annual fill rate of 605 m³ per year. In contrast to the D.M. Wills waste capacity calculations, Pinchin's review of the 2019 survey data resulted in an estimated in-place waste volume of approximately 32,395 m³. Based on the approved waste disposal footprint and the MECP landfill design standards, it was estimated that the maximum capacity of the Site was approximately 141,875 m³. Therefore, the remaining waste capacity at the Site was approximately 106,454 m³ as of June 2019.

In support of the 2023 Liability Estimate Report, Pinchin retained Unmanned Aerial Services Inc. (UAS) to conduct a supplemental topographic survey of the Site utilizing a UAV on October 24, 2023. Based on a comparison of the 2019 and 2023 topographic surveys, it was estimated that a volume of approximately 3,720 m³ of waste had been placed at the Site resulting in an annual waste deposition rate of approximately 858 m³ per year, a remaining Site capacity of approximately 105,759 m³ and a revised in-place volume of approximately 36,115 m³ as of October 2023.

As mentioned in Section 3.1, the limits of waste were adjusted as part of this fill plan based on the historical deposition to minimize operational obligations (i.e., relocating waste) as some of the existing fill areas extended beyond the previously proposed waste footprint. The theoretical capacity of the Site based on the adjusted waste boundary and final contours is 126,517 m³. Comparing the proposed final waste contours to the most recent survey contours results in a remaining capacity of approximately 90,402 m³ (i.e., the theoretical capacity of 126,517 m³ minus the estimated waste volume 36,115 m³) as of October 2023. In the absence of additional topographic surveys for the Site in 2024 or 2025, Pinchin has assumed that the waste placement over the last two years continued at a constant average annual waste deposition rate of 858 m³. Using the average annual deposition rate and the October 2023 in-place volume estimate of 36,115 m³, the amount of waste in-place at the Site is estimated to be 37,831 m³ as of October 2025 with a remaining lifespan of the Site is in excess of 100 years.



3.2.1 Operational Changes

Any operational changes to the Site, such as the amount of waste received, will result in an increased average annual waste deposition rate and a reduction in the overall lifespan of the Site. The Municipality also operates the nearby Chapman landfill. If fill operations were to be suspended at the Chapman landfill, whether long-term or intermittently (e.g., suspending operations over winter (a seasonally dependent suspension of operations)), it is expected that the collected waste from the area currently serviced by the Chapman Waste Disposal Site would be diverted to the Croft Waste Disposal Site. In this case, the average annual deposition rate at the Croft landfill would be increased to approximately 4,243 m³ (i.e., the sum of the average annual deposition at the Croft landfill and average annual deposition at the Chapman landfill). This would result in a decrease of the remaining lifespan for the Croft Waste Disposal Site of approximately 21 years as of October 2025.

4.0 PROPOSED FILL PLAN

4.1 Proposed Site Development

The proposed final top of waste contours for a 2.5 ha waste footprint are presented on Figure 4. The proposed waste deposition plan comprises four fill sequences; each comprising of three cells as illustrated in plan view on Figures 5 through 16. Landfilling operations will be concentrated in the north end of the Site progressively moving southward as the cells reach their proposed contours. Each of the proposed fill sequences includes two lower (i.e., base) layer cells and one upper layer cell. A cell of manageable size is considered to be approximately 50 meters (m) long by 50 m wide; however, it is important to note that the proposed sequence of cells are not of uniform size, shape, or volume due to the required tie-in to existing topography. Cell height will be variable as there is not a uniform elevation over the existing fill areas, and the grade of the original ground conditions varies across the approved fill area.

The lower layer cells are to be constructed to an elevation of 297 masl, and the upper layer cells are to be constructed to the final top waste contours which ranges between 300 and 301 masl depending on the cell location within the landfill footprint. Grade stakes or survey controls should be established to delineate each cell boundary and maximum waste elevation. Once a set of laterally abutting lower layer cells have been filled to the specified contour (297 masl), the upper layer cell will be constructed to final waste contours over the 297 masl plateau portion of the base layer cells completing the fill sequence. With exception of Cell 10, which includes the area of the Site where segregated C&D waste is actively landfilled, waste placement in each subsequent cell is not to begin until the current cell is filled to its final elevation and sides are sloped, as required, to the appropriate grade. Thus, progressive closure may be carried out on completed fill sequence while operations continue in the next sequential cell.



The proposed waste deposition plan involves progressive placement of waste from the north end of the approved fill area to the south. The first fill sequence comprises Cells 1 through 3 where Cells 1 and 2 form the lower layer cells, and Cell 3 forms the upper layer cell constructed over these two previous sequential cells. Despite the active fill area currently spanning both the Cell 1 and 2 area, upon the adoption of this waste fill plan, waste placement will be limited to the northeast corner of the landfill (Cell 1) and not progress into the northwest corner of the approved fill area (i.e. Cell 2) until Cell 1 is complete to the specified contours. The second fill sequence comprises Cells 4 through 6; the third fill sequence comprises Cells 7 through 9; and the fourth and final cell sequence comprises Cells 10 through 12. The working face will shift progressively as filling advances within each cell. When the top of waste in the next sequential cell is below the elevation of the previous cell (e.g., between Cell 1 and Cell 2, between Cell 4 and Cell 5 etc.), the boundary between the completed and active cell can be used as the tipping face to fill in the active cell.

Within each cell, waste placement should be placed in 0.5 m lifts with a 0.15 m lift of daily cover. Cover soil stockpiles should be located near the active cell, but outside drainage flow paths. A 2 percent (%) grade for drainage should also be maintained across the 297 masl plateau areas formed within each sequence directing stormwater to the landfill toe. Temporary interior side slopes are to be graded as waste is placed and maintained at 3 horizontal to 1 vertical (3H:1V) for all active cells. Final slopes are required to be 4H:1V with a 20H:1V crown slope. Temporary haul routes are to be regraded as filling progresses, and if deemed necessary, perimeter access roads must be maintained to ensure year-round accessibility.

As described at the beginning of this section, the remaining volume to achieve the proposed cell contours is variable across the Site. A large portion of the Cell 4 area includes historical waste deposition that has already raised much of the area to the 297 masl target elevation. Most of the remaining fill volume to achieve the proposed Cell 4 contours is within the west end of the cell area along the west slope. Cell 7, in fill sequence 3, is located directly south of Cell 4, and similarly, a large portion of the fill volume in Cell 7 is already occupied by historical fill operations. If Cell 10 achieves its proposed waste contours prior to the nine cells that come sequentially before it, the C&D disposal area will be either moved over to Cell 11, or the waste stream will no longer be segregated from the rest of the waste received at the landfill. Adjustments to the cell sequence may be made, subject to municipal approval, to accommodate waste volumes and operational conditions.



5.0 CLOSURE

We trust that plan is suitable to address your current concerns. Should you have any questions or concerns regarding the contents of this letter, please contact the Project Manager, Alana Valle at 705.521.0560, or avalle@pinchin.com.

Yours truly,

Pinchin Ltd.

Prepared by:

Reviewed by:

Greg Way, B.Sc.
Project Manager

Tim McBride, B.Sc., P.Geo., QP_{ESA}
Practice Specialist – Hydrogeology
Director, Northern Ontario

Encl.: Appendix I – Figures
Appendix II – Environmental Compliance Approval

APPENDIX I
Figures



| | | | | | |
|-------------------|----------|--|--------------|--------------|---------------|
| PROJECT NAME: | | WASTE FILL PLAN | | | |
| CLIENT NAME: | | THE MUNICIPALITY OF MAGNETAWAN | | | |
| PROJECT LOCATION: | | CROFT WASTE DISPOSAL SITE, MAGNETAWAN, ONTARIO | | | |
| FIGURE NAME: | | KEY MAP | | | FIGURE NUMBER |
| PROJECT NUMBER: | SCALE: | DRAWN BY: | REVIEWED BY: | DATE: | 1 |
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LEGEND

- - - EXTENT OF SURVEY IMAGE
- - - PROPOSED LIMIT OF WASTE
- - - 30m BUFFER
- - - ACCESS ROAD

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER
INTERPRETATION.



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| PROJECT NAME: WASTE FILL PLAN | |
| CLIENT NAME: MUNICIPALITY OF MAGNETAWAN | |
| PROJECT LOCATION: CROFT WASTE DISPOSAL SITE, MAGNETAWAN, ONTARIO | |
| FIGURE NAME: EXISTING SITE PLAN | |
| PROJECT NUMBER: 225335.007 | SCALE: AS SHOWN |
| DRAWN BY: KL | REVIEWED BY: AV |
| DATE: JANUARY 2026 | FIGURE NUMBER: 2 |



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- LEGEND**
- EXTENT OF SURVEY IMAGE
 - PROPOSED LIMIT OF WASTE
 - ACCESS ROAD
 - MAJOR CONTOURS (5m)
 - MINOR CONTOURS (1m)

LEGEND IS COLOUR DEPENDENT.
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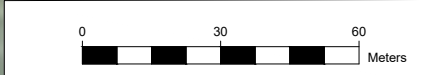
PROJECT NAME:
WASTE FILL PLAN

CLIENT NAME:
MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:
**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

FIGURE NAME:
EXISTING TOPOGRAPHY

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| PROJECT NUMBER: 225335.007 | SCALE: AS SHOWN |
| DRAWN BY: KL | REVIEWED BY: AV |
| DATE: JANUARY 2026 | FIGURE NUMBER: 3 |



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- - - PROPOSED LIMIT OF WASTE
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- MAJOR CONTOURS (5m)
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PROJECT NAME:
WASTE FILL PLAN

CLIENT NAME:
MUNICIPALITY OF MAGNETAWAN

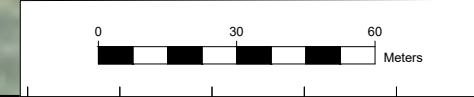
PROJECT LOCATION:
**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

FIGURE NAME:
FINAL WASTE CONTOURS

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 - PROPOSED LIMIT OF WASTE
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| PROJECT NAME: WASTE FILL PLAN | |
| CLIENT NAME: MUNICIPALITY OF MAGNETAWAN | |
| PROJECT LOCATION: CROFT WASTE DISPOSAL SITE, MAGNETAWAN, ONTARIO | |
| FIGURE NAME: FILL SEQUENCE 1 - CELL 1 | |
| PROJECT NUMBER: 225335.007 | SCALE: AS SHOWN |
| DRAWN BY: KL | REVIEWED BY: AV |
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- LEGEND**
- EXTENT OF SURVEY IMAGE
 - PROPOSED LIMIT OF WASTE
 - ACCESS ROAD
 - MAJOR CONTOURS (5m)
 - MINOR CONTOURS (1m)

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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

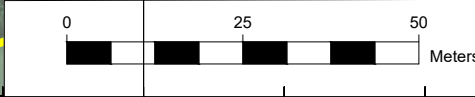
FIGURE NAME:

FILL SEQUENCE 1 - CELL 2

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- EXTENT OF SURVEY IMAGE
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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

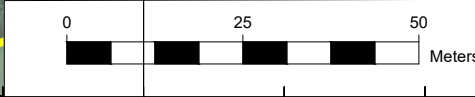
FIGURE NAME:

FILL SEQUENCE 1 - CELL 3

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 - ACCESS ROAD
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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

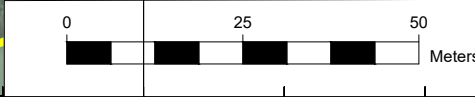
FIGURE NAME:

FILL SEQUENCE 2 - CELL 4

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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO

FIGURE NAME:

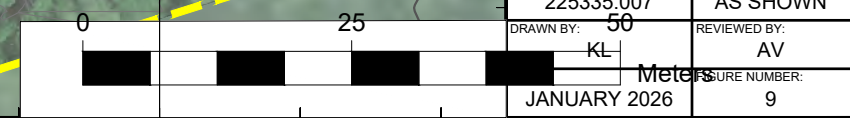
FILL SEQUENCE 2 - CELL 5

PROJECT NUMBER:
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 - ACCESS ROAD
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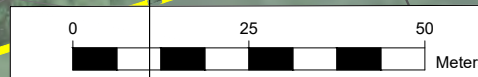
PROJECT NAME:
WASTE FILL PLAN

CLIENT NAME:
MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:
**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

FIGURE NAME:
FILL SEQUENCE 2 - CELL 6

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 - ACCESS ROAD
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 - MINOR CONTOURS (1m)

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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

FIGURE NAME:

FILL SEQUENCE 3 - CELL 7

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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO

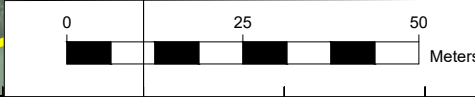
FIGURE NAME:

FILL SEQUENCE 3 - CELL 8

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- EXTENT OF SURVEY IMAGE
 - PROPOSED LIMIT OF WASTE
 - ACCESS ROAD
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 - MINOR CONTOURS (1m)

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PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

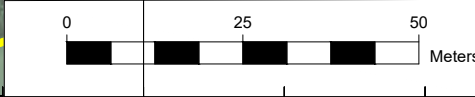
FIGURE NAME:

FILL SEQUENCE 3 - CELL 9

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- LEGEND**
- EXTENT OF SURVEY IMAGE
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| PROJECT NAME: WASTE FILL PLAN | |
| CLIENT NAME: MUNICIPALITY OF MAGNETAWAN | |
| PROJECT LOCATION: CROFT WASTE DISPOSAL SITE, MAGNETAWAN, ONTARIO | |
| FIGURE NAME: FILL SEQUENCE 4 - CELL 10 | |
| PROJECT NUMBER: 225335.007 | SCALE: AS SHOWN |
| DRAWN BY: KL | REVIEWED BY: AV |
| DATE: JANUARY 2026 | FIGURE NUMBER: 14 |



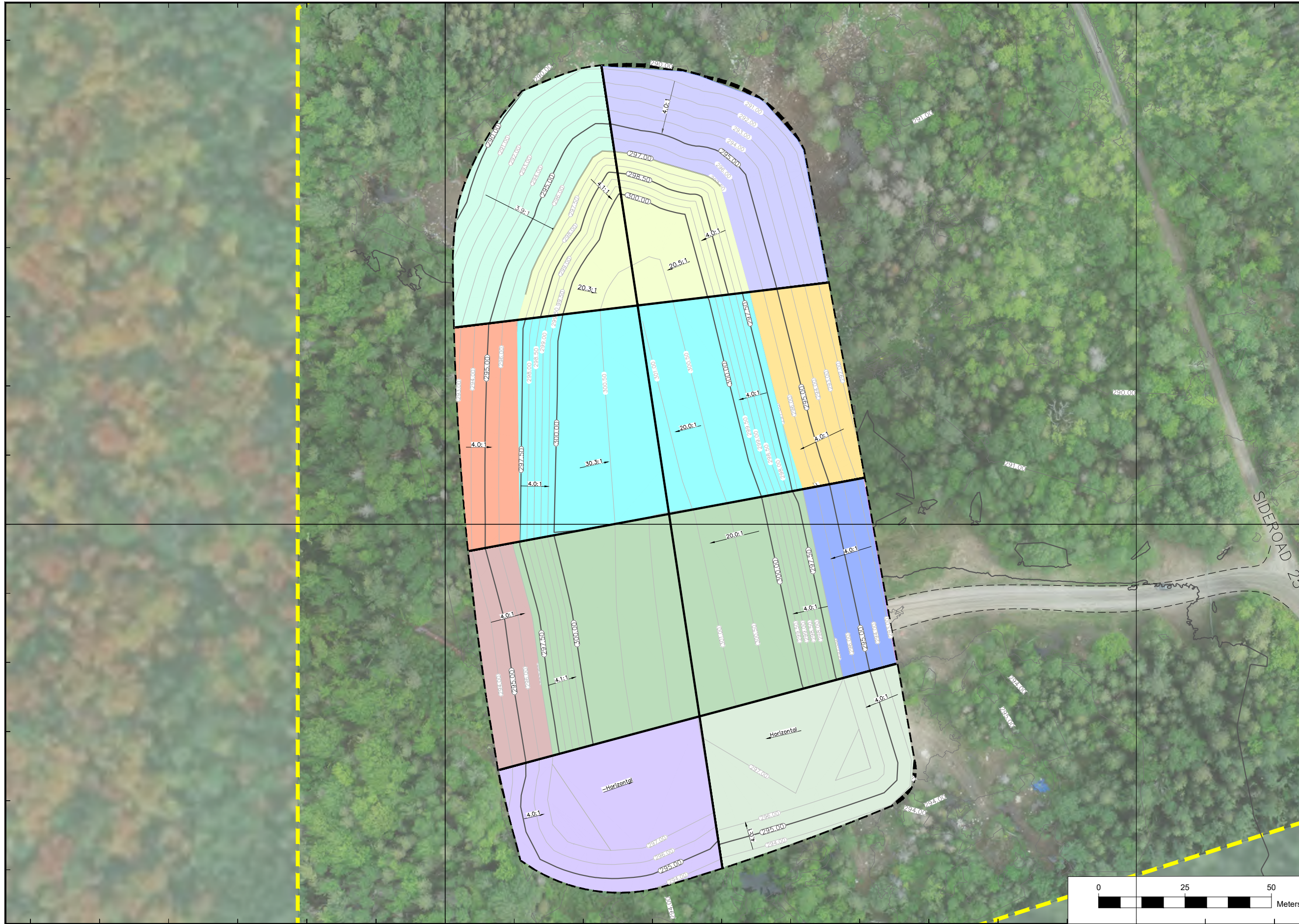
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LEGEND

- EXTENT OF SURVEY IMAGE
- PROPOSED LIMIT OF WASTE
- ACCESS ROAD
- MAJOR CONTOURS (5m)
- MINOR CONTOURS (1m)

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER
INTERPRETATION.



PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

FIGURE NAME:

FILL SEQUENCE 4 - CELL 11

PROJECT NUMBER:

225335.007

SCALE:

AS SHOWN

DRAWN BY:

KL

REVIEWED BY:

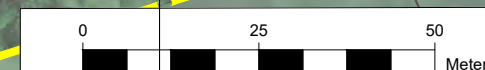
AV

DATE:

JANUARY 2026

FIGURE NUMBER:

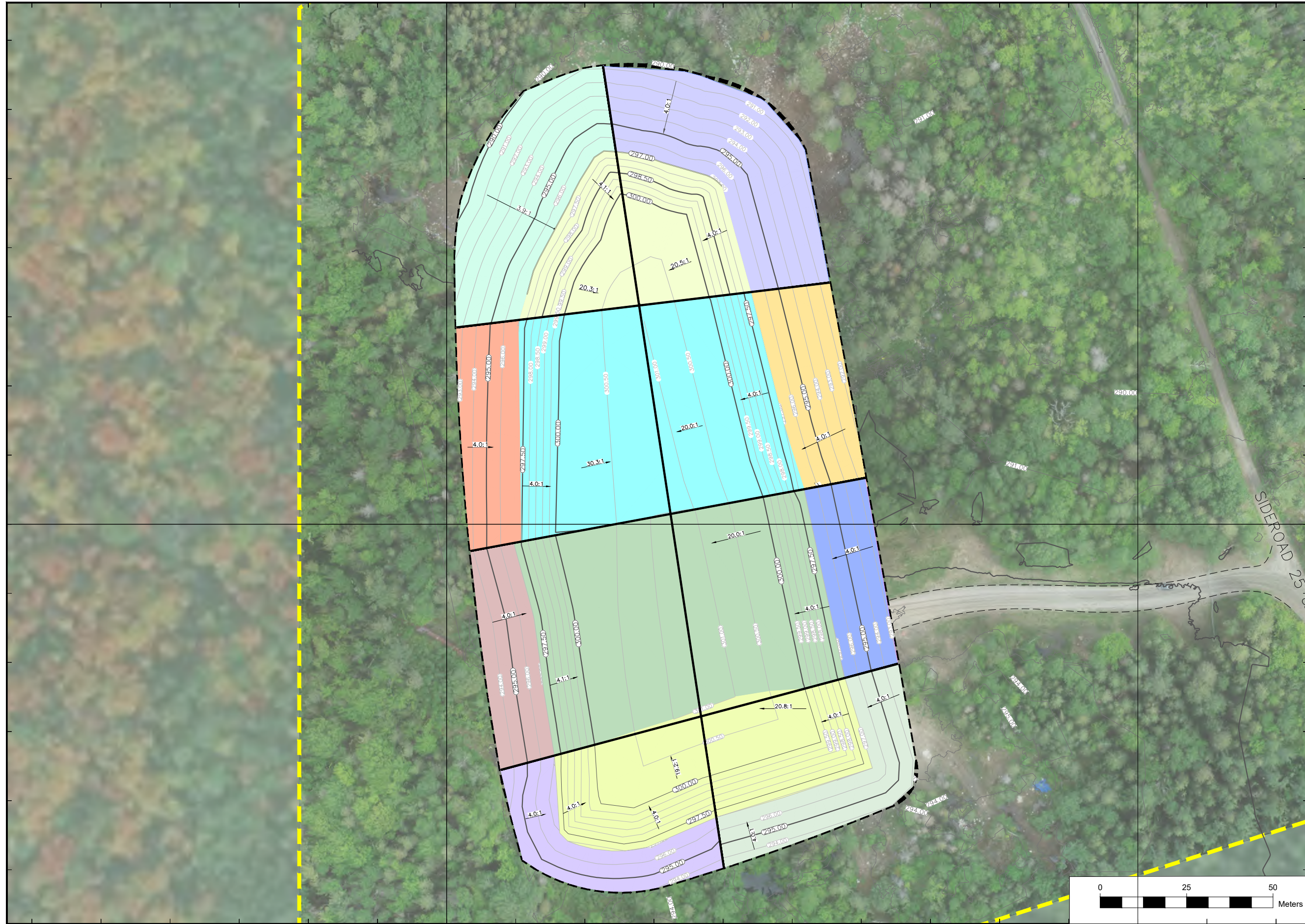
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LEGEND

- EXTENT OF SURVEY IMAGE
- PROPOSED LIMIT OF WASTE
- ACCESS ROAD
- MAJOR CONTOURS (5m)
- MINOR CONTOURS (1m)

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER
INTERPRETATION.



PROJECT NAME:

WASTE FILL PLAN

CLIENT NAME:

MUNICIPALITY OF MAGNETAWAN

PROJECT LOCATION:

**CROFT WASTE DISPOSAL SITE,
MAGNETAWAN, ONTARIO**

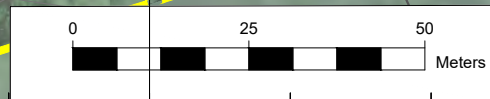
FIGURE NAME:

FILL SEQUENCE 4 - CELL 12

| | |
|-------------------|-----------------|
| PROJECT NUMBER: | SCALE: |
| 225335.007 | AS SHOWN |

| | |
|-----------|--------------|
| DRAWN BY: | REVIEWED BY: |
| KL | AV |

| | |
|---------------------|----------------|
| DATE: | FIGURE NUMBER: |
| JANUARY 2026 | 16 |



APPENDIX II
Environmental Compliance Approval

Environment

PROVISIONAL CERTIFICATE
A-7034002

PROVISIONAL CERTIFICATE OF APPROVAL WASTE DISPOSAL SITE

Under The Environmental Protection Act, 1971 and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

Her Majesty the Queen in Right of Ontario
as represented by the Minister of Natural Resources
4 Miller Street
Parry Sound, Ontario

for the use and operation of a 2.5 hectare landfilling site

all in accordance with the following plans and specifications:

Located: Lot 26, Concession 11
Township of Croft
District of Parry Sound

which includes the use of the site only for the Disposal
of the following categories of waste (NOTE: Use of the site for additional categories of
wastes requires a new application and amendments to the Provisional Certificate of
Approval) Domestic Waste and Brush

and subject to the following conditions:

Dated this 2nd day of April, 19 80.

[Signature]
Director, Section 39,
The Environmental Protection Act, 1971