

EABDirector@gov.mb.ca

Public Registry File Number: 6000.00 File Number: 17328

February 11, 2025

James Fielder Chief Administrative Officer Municipality of Russel-Binscarth Box 10 Russel MB R0J 1W0 <u>ifielder@mrbgov.com</u>

Dear James Fielder:

Re: Russel Waste Disposal Ground Permit No. 8656 P2

Please find enclosed Permit No. 8656 P2 in response to your application dated September 4, 2024, and additional information received on November 19, 2024. You wish to continue to operate Russel Waste Disposal Ground on portions of NW 27-20-28 WPM in the Municipality of Russel-Binscarth, Manitoba.

The Municipality of Russel-Binscarth must follow all permit requirements and federal, provincial, and municipal regulations and by-laws.

Anyone affected by this decision may appeal, in writing, to the Minister of Environment and Climate Change at <u>minecc@manitoba.ca</u> by March 13, 2025. The permit is available on the public registry at <u>https://www.gov.mb.ca/sd/eal/registries/6000wmfpermits/index.html.</u>

For clauses 13-21, the designated environment officer of the Environmental Approvals Branch is Desalegn Edossa, who may be contacted at <u>Desalegn.Edossa@gov.mb.ca</u> or 204-945-7021.

If you have any questions about this approval, please contact Kayla Hagenson, Acting Regional Supervisor, Environmental Compliance and Enforcement Branch at <u>EnvCEWestern@gov.mb.ca</u> or 204-648-4794.

Sincerely,

Original Signed By Agnes Wittmann Director The Environment Act

c. Kayla Hagenson Desalegn Edossa



File No. : 17328

Permit No.: <u>8656 P2</u> Issue Date: <u>February 11, 2025</u>

Following the Waste Management Facilities Regulation under The Environment Act, the Municipality of Russell-Binscarth is hereby permitted to run Russel Waste Disposal Ground on portions of NW 27-20-28 WPM in the Municipality of Russell-Binscarth, Manitoba. Schedule A of this permit identifies the facility.

This permit is subject to being amended, suspended, or revoked under sections 7 and 9 of the Waste Management Facilities Regulation.

Definition

in this permit,

"odour nuisance" means a continuous or repeated odour, smell or aroma, in an affected area, which is offensive, obnoxious, troublesome, annoying, unpleasant or disagreeable to a person:

- a) residing in an affected area;
- b) working in an affected area; or
- c) present at a location in an affected area which is normally open to members of the public;

if the odour, smell or aroma:

- d) is the subject of at least 5 written complaints, received by the director in a form satisfactory to the director and within a 90-day period, from 5 different persons falling within clauses (a), (b) or (c), who do not live in the same household; or
- e) is the subject of at least one written complaint, received by the director in a form satisfactory to the director, from a person falling within clauses (a), (b) or (c) and the director is of the opinion that if the odour, smell or aroma had occurred in a more densely populated area there would have been at least 5 written complaints received within a 90-day period, from 5 different persons who do not live in the same household;

"operator" means the holder of a licence or permit issued in respect of the waste management facility; and

"waste disposal ground" means an area of land designated by a person, municipality, provincial government agency, or crown corporation for the disposal of waste and approved for use under the Waste Management Facilities Regulation, or any future amendments, or a licence under The Environment Act.

General Terms and Operating Conditions

- 1. This permit expires on February 11, 2030.
- 2. The operator must maintain and operate the facility following the Waste Management Facilities Regulation and any future amendments, and this permit.
- 3. The operator must:
 - a) review and update the operations manual at least every five years, or at an earlier time if required by the director; and
 - b) submit the operations manual to the director or environment officer upon request.
- 4. The operator must obtain approval in writing from the director before altering the facility.

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Odour Nuisance

5. The operator must not cause or permit an odour nuisance to be created as a result of the construction, operation, or alteration of the facility, and must take such steps as the director may specify to eliminate or mitigate an odour nuisance.

Site Access and Control

6. The operator must restrict access to the facility when site supervision is not provided, with a locked gate, barrier or other system approved in writing by an environment officer.

Materials Acceptance and Handling

- 7. The operator must:
 - a) segregate materials collected for recycling or reuse;
 - b) temporarily stockpile these materials in designated areas with clear signage; and
 - c) must maintain these areas to control weeds, vectors, and the quality of the materials.
- 8. The operator must remove the materials identified in clause 7 of this permit regularly or upon the request of an environment officer, within the timeframe specified.
- 9. The operator must not accept any livestock or other animal mortalities at the facility.

Placement and Cover

10. The operator may use material other than soil to cover the active area upon receiving written approval from the director or the environment officer.

Surface Water Management

11. The operator must construct the facility such that all uncontaminated surface water flows to the perimeter ditch and impacted water from all material storage areas is contained within the facility boundaries.

Site Construction and Upgrading

- 12. The operator must have all waste disposal cells, modifications, or alterations designed by and construction overseen by an engineer.
- 13. The operator must, before beginning any construction at the facility, submit an electronic copy of the final engineering design plans, sealed by an engineer, to the designated environment officer for approval. The plans will show the engineering details of each new or altered component and the location of each new or altered component relative to other components and the final design elevation of the new cell.
- 14. The operator must construct the facility following the design plans submitted to the designated environment officer following clause 13 of this permit and subject to any terms and conditions set by the designated environment officer.
- 15. Notwithstanding clause 14 of this permit, construction must be subjected to the following conditions:
 - a) the operator must provide for testing of all clay liners and cut-off walls by a qualified consultant to confirm that compaction is 95% Standard Proctor Density on maximum lifts of 0.15 m (150 mm); and

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- b) all active areas or leachate containment developed from or with clay must be constructed to achieve a hydraulic conductivity of not more than 1x10⁻⁷ cm/s with a minimum thickness of one metre perpendicular to the surface. If appropriate or sufficient clay is not available an alternative proposal must be submitted to the designated environment officer for written approval before construction.
- 16. The operator must, unless approved by the designated environment officer, arrange with the designated environment officer a mutually acceptable time and date for any required soil sampling between the 15th day of May and the 15th day of October of any year.
- 17. The operator must, following Schedule B of this permit, take and test undisturbed soil samples from:
 - a) the clay of new waste disposal cell(s);
 - b) leachate ponds; and
 - c) any clay component of the facility requiring testing by the designated environment officer.
- 18. The number and location of samples and test methods will be specified by the designated environment officer up to a maximum of 20 samples per cell or clay component of the facility.
- 19. The operator must, not less than two weeks before using any component of the facility as referenced in clause 17 of this permit, submit for the approval of the designated environment officer the results of the tests carried out following clause 17 of this permit.
- 20. The operator must:
 - a) prepare record drawings of the facility and must label the drawings "record drawings"; and
 - b) submit "record drawings" along with a construction report to the designated environment officer within 120 days of the completion of construction of the facility.

The construction report must include the following:

- (i) the engineer's inspection dates and notes;
- (ii) density measurements (for clay lined facility); and
- (iii) updated site plan showing the new cell, monitoring well installation logs, locations, and background water samples (if applicable).

Final Design Elevation

21. The operator must submit to the designated environment officer the final design elevation of the current active cell prepared by an engineer by October 31, 2025. The operator must not exceed the final design elevation of the active cell as identified by the engineer.

Final Closure Plan

22. The operator must, at least six months before the permanent closure of the facility, submit a final closure plan for the approval of the director.

Heritage Resources

23. The operator must comply with the requirements of The Heritage Resources Act and suspend construction and immediately notify the Historic Resources Branch if heritage resources are encountered during the construction of the cell.

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Composting

24. The operator must, unless otherwise approved by an environment officer, compost only leaf and yard wastes.

Burning of Specified Waste

- 25. The operator must only burn:
 - a) separated and readily combustible materials such as boughs, leaves, loose straw, paper products, cardboard, non-salvageable untreated wood, and packing materials derived from wood; and
 - b) when there is an appropriate volume of materials as identified in clause 25 a) of this permit.

Revocation

26. This permit replaces Permit No. 8656 P1, which is expired.

Original Signed By Agnes Wittmann Director The Environment Act Schedule A to Permit No. 8656 P2



Figure 1 Facility Layout

Schedule B to Permit No. 8656 P2 Soil sampling following clause 17 of this permit

Soil Sampling

- The operator must provide a drilling rig, acceptable to the designated environment officer, to extract soil samples from the specified liner of the structure. This includes all liners constructed with clay. The drill rig must have the capacity to drill to the maximum depth of the clay liner plus an additional 2 metres. The drill rig must be equipped with both standard and hollow stem augers. The minimum hole diameter must be five inches.
- 2. For liners placed or found at the surface of the structure, the operator must provide a machine, acceptable to the designated environment officer, capable of pressing a sampling tube into the liner in a straight line motion along the centre axis line of the sample tube and without sideways movement.
- 3. Soil samples must be collected and shipped following ASTM Standard D 1587 (Standard Practice for Thin-Walled Tube Sampling of Soils), D 4220 (Standard Practice for Preserving and Transporting Soil Samples), and D 3550 (Standard Practice for Ring-Lines Barrel Sampling of Soils). Thin-walled tubes must meet the stated requirements including length, inside clearance ratio, and corrosion protection. An adequate venting area must be provided through the sampling head.
- 4. At the time of sample collection, the designated environment officer must advise the operator as to the soil testing method that must be used on each sample. The oedometer method may be used for a sample where the environment officer determines that the soil sample is taken from undisturbed clay soil which has not been remoulded and which is homogeneous and unweathered. The triaxial test must be used for all samples taken from disturbed and remoulded soils or from non-homogenous and weathered soils.
- 5. The operator must provide a report on the collection of soil samples to the designated environment officer and to the laboratory technician which includes but is not limited to a plot plan indicating sample location, depth or elevation of sample, length of the advance of the sample tube length of soil sample contained in the tube after its advancement, the soil test method specified by the environment officer for each soil sample and all necessary instructions from the site engineer to the laboratory technician.
- 6. All drill and sample holes must be sealed with bentonite pellets after the field drilling and sampling have been completed.

Schedule B to Permit No. 8656 P2 Soil sampling following clause 17 of this permit (continued)

Soil Testing Methods

- 1. Triaxial Test Method
 - a) The soil samples must be tested for hydraulic conductivity using ASTM D 5084 (Standard Test Method for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter).
 - b) Soil specimens must have a minimum diameter of 70 mm (2.75 inches) and a minimum height of 70 mm (2.75 inches). The soil specimens must be selected from a section of the soil sample which contains the most porous material based on a visual inspection. The hydraulic gradient must not exceed 30 during sample preparation and testing. Swelling of the soil specimen should be controlled to adjust for: the amount of compaction measured during sample collection and extraction from the tube and the depth or elevation of the sample. The effective stress used during saturation or consolidation of the sample must not exceed 40 kPa (5.7 psi) or the specific stress level, that is expected in the field location where the sample was taken, whichever is greater.
 - c) The complete laboratory report, as outlined in ASTM D 5084, must be supplied for each soil sample collected in the field.
- 2. Oedometer Test Method
 - a) The soil samples must be tested for hydraulic conductivity using ASTM D 2435 (Standard Test Method for One-Dimensional Consolidation Properties of Soils).
 - b) Soil specimens must have a minimum diameter of 50 mm (2 inches) and a minimum height of 20 mm (0.8 inches). The soil specimens must be selected from a section of the soil sample which contains the most porous material based on a visual inspection. The soil specimen must be taken from an undisturbed soil sample. The soil specimen must be completely saturated.
 - c) The complete laboratory report, as outlined in ASTM D 2435, must be supplied for each soil sample collected in the field.