



Environment and Climate Change

Environmental Approvals Branch
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Public Registry File Number: 6000.00

File Number.: 11066

July 26, 2024

Jessica Power
Chief Administrative Officer
Town of Churchill
Box 459
Churchill MB R0B 0E0
jessica.power@churchill.ca

Dear Jessica Power:

**Re: Extension to submit Churchill's long-term Waste Management Plan –
Permit No 44448 P1**

Thank you for the request received on July 15, 2024, seeking approval to extend the deadline to submit a revised long-term waste management plan for the Town of Churchill. The approval letter dated April 18, 2024, required the town to submit a long-term waste management plan by July 15, 2024. The town is seeking a two-month extension to submit a detailed plan.

I approve you to submit the revised long-term waste management plan for my approval by September 16, 2024. I also allow you to continue to temporarily store waste at the existing closed landfill cell until September 30, 2024.

The revised plan must include the following, but not be limited to:

1. An action plan for the interim waste management practices (i.e., short-term waste management plan). The plan must include, but not be limited to the following:
 - a) interim waste disposal facility options and the option selected;
 - b) location of the selected interim waste disposal facility; and
 - c) estimated timeline for each action/task;
2. Engineering plans and specifications for the existing waste disposal ground. This may be submitted earlier;
3. A long-term waste management plan that considers all potential options along with their benefits and risks;

4. The long-term waste management plan must include, but not be limited to, the following:
 - a) a clear description of:
 - i. the type of waste management facility option or a combination of options selected;
 - ii. potential location of those waste management facilities;
 - iii. the types and volume of waste generated;
 - iv. more information on associated waste disposal infrastructure, (e.g., bins, containers, fencing, access road, and others); and
 - b) timeline for each milestone.

Conditions 1-3 of the enclosed approval letter dated April 18, 2024, and all other clauses of Permit No. 44448 P1 remain in effect.

The town must notify the department before constructing any trench within the existing waste disposal ground and the notification must include an engineering design plan. The Waste Management Facilities Regulation does not allow use of permafrost as a liner. The department needs confirmation that the existing waste disposal ground has a liner before any trench construction begins at the landfill.

If you have any questions about this approval, please contact Desalegn Edossa, Environmental Engineer, Environmental Approvals Branch at Desalegn.Edossa@gov.mb.ca or 204-945-7021.

If you have any questions about the ongoing administration of the permit, please contact Allan Cyrene, Acting Regional Supervisor, Environmental Compliance and Enforcement Branch at Allan.Cyrenne@gov.mb.ca or 204-485-6410.

Sincerely,

Original Signed By

Agnes Wittmann
Director
The Environment Act

Enclosure

- c. Desalegn Edossa – Environmental Approvals Branch
Allan Cyrene – Environmental Compliance and Enforcement Branch



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April 18, 2024

Jessica Power
Chief Administrative Officer
Town of Churchill
Box 459
Churchill MB R0B 0E0
jessica.power@churchill.ca

Dear Jessica Power:

Re: Churchill Waste Disposal Ground – Permit No 44448 P1

Thank you for the information received on April 17, 2024, seeking approval to use the existing closed cell of the landfill site to temporarily store waste generated from the town. It is our understanding that you no longer have access to the transfer station due to the fire. You also propose to use sand and gravel as a cover material to contain the waste at the closed landfill cell until a more permanent cover solution is available.

Following Section 7 of the Waste Management Facilities Regulation, I approve you to temporarily store waste at the existing closed landfill cell until July 31, 2024. In using this site, the town must:

1. contain solid waste within the footprint of the closed cell and prevent any windblown scatter of waste from escaping the landfill cell's perimeter fence.
2. maintain the electric perimeter fence and use preventative measures, to the satisfaction of the Director, to prevent scavenging by bears at the facility.
3. contain any leachate generated within the landfill site and manage it following the permit.
4. submit a long-term waste management plan for approval by July 15, 2024. The plan must also address the final disposal of the temporary waste stored at the closed landfill.

All other clauses of Permit No. 44448 P1 remain in effect.

If you have any questions about this approval, please contact Mehak Bajwa, Senior Environmental Engineer, Environmental Approvals Branch at Mehak.Bajwa@gov.mb.ca or 431-335-2554.

Sincerely,

Original Signed By

Agnes Wittmann
Director
The Environment Act

c. Mehak Bajwa - Environmental Approvals Branch

Waste Disposal Ground Operating Permit



Permit No: 44448 P1

File: 11066

In accordance with the Waste Management Facilities Regulation, made under The Environment Act, the Town of Churchill is hereby permitted to operate a Waste Disposal Ground to be known as the Churchill Waste Disposal Ground situated in proximity to 15V 443261E 6513418N (NAD83) in the Province of Manitoba.

THIS OPERATING PERMIT is subject to being AMENDED, SUSPENDED or REVOKED under section 7 of the Waste Management Facilities Regulation.

THIS OPERATING PERMIT is issued subject to the following TERMS AND CONDITIONS:

General Terms and Operating Conditions

1. This permit expires on March 31, 2026.
2. The Operator shall maintain and operate the Churchill Waste Disposal Ground (the Facility) in accordance with the most current version of the Waste Management Facilities Regulation; the engineering submission prepared by KGS Group dated November 2010, inclusive of updates submitted in December 2010, July 26, 2011, and December 3, 2013 and identified as File number 09-1840-01, hereafter referred to as the Plan, and this Operating Permit.
3. The Operator shall maintain a copy of the Plan and a copy of this Operating Permit that is accessible to facility staff. The Operator shall provide the Plan to an Environment Officer upon request.
4. The Operator shall operate the Facility as per the operation and maintenance parameters included in the Plan.
5. The Operator shall obtain approval in writing from the Director for any proposed alteration to the Facility before proceeding with the alteration.

Site Access and Control

6. The Operator shall not allow unauthorized persons to have access to the Facility. When access to the public is provided, an attendant shall be on site.
7. The Operator shall restrict access to the Facility with a locked gate or barrier when site supervision is not provided.
8. The Operator shall maintain the electric perimeter fence and use preventative measures, to the satisfaction of the Director, to prevent scavenging by bears at the Facility.

9. In the event the existing electric perimeter fence is not sufficient to prevent scavenging by bears at the Facility, a proposal for alteration, modification or replacement of the electric perimeter fence shall be submitted to the Director upon request. The fence proposal may be approved, with conditions or alterations as required by the Director, and the proposal must be installed in the timeframe as outlined by the Director.

Materials Acceptance and Handling

10. The Operator shall only place materials for final disposal (burial) at the Facility in a designed and constructed waste cell. No other materials, such as organic or compostable materials, white goods, recyclables, glass, tires, scrap metal, etc., are to be located or stored at the Facility.
11. The Operator shall allow only solid waste from sources identified in the Plan to be deposited or disposed of at the Facility unless otherwise approved in writing by the Director.
12. The Operator shall remove any litter accumulated along the access road and around the perimeter of the site. Litter collection shall occur at minimum twice annually or as required by an Environment Officer.
13. The Operator shall only accept asbestos or asbestos containing material that is packaged, handled, and labeled in accordance with the most current version of Guide for Asbestos Management from Workplace Safety and Health Division.
14. The Operator shall only accept asbestos or asbestos containing material that is transported in accordance with the most current version of the Transportation of Dangerous Goods Regulations and Hazardous Waste Regulation.
15. The Operator shall dispose asbestos or asbestos containing material in accordance with the most current version of the Guideline for Asbestos Disposal at a Landfill.
16. The Operator shall receive written approval from the Director or an Environment Officer for any animal mortality disposed of at the Facility.
17. The Operator shall cover immediately any animal mortality approved by Condition 16 with a minimum one metre cover to prevent scavenging.

Placement and Cover

18. The operator shall bale all municipal solid waste prior to placement in a waste disposal cell at the Facility.
19. The operator shall cover all solid waste deposited at the Facility that could attract bears to the satisfaction of the Director on the day it is placed at the Facility, or as otherwise approved by the Director.
20. The Operator may use material other than soil for cover of the active area upon receiving written approval from the Director or Environment Officer. Organic waste by-products, including but not limited to screenings, chaff, and seeds shall not be placed or utilized as an interim or staging cover for solid waste cells without prior written approval from the Director.

Surface Water Management

21. The Operator shall develop, operate and maintain the site so that no surface water enters the Facility.
22. The Operator shall 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.
23. The Operator shall develop and maintain a surface water drainage network to minimize water from entering active cells, recycling and storage areas.
24. In the event groundwater enters any of the waste disposal cells, the Operator shall have an assessment of the source of the groundwater provided by a professional engineer, complete with recommendations and a remediation action plan submitted to the Director for approval.
25. The Operator shall complete the approved remediation action plan of Condition 24 with any conditions or restrictions or timelines as specified by the Director.

Site Construction and Upgrading

26. The Operator shall have all waste disposal cells, modifications or alterations designed by and construction overseen by a professional engineer.
27. The Operator shall, prior to initiating any construction at the Facility, submit two paper copies and one electronic copy of final engineering design plans, sealed by an engineer(s), to the Director. The plans will show the engineering details of each new or altered component and the location of each new or altered component with respect to other components.
28. The Operator shall construct the Facility in accordance with the design plans submitted to the Director pursuant to Condition 27 of this Permit and subject to any terms and conditions set by the Director.
29. Notwithstanding Condition 27, construction shall be subject 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 compaction is 95% Standard Proctor Density on maximum lifts of 150 mm; and
 - b) all active areas or leachate containment developed from or with clay must be constructed to achieve a hydraulic conductivity of not more than 1×10^{-7} cm/s with a minimum thickness of 1 metre perpendicular to the surface. If appropriate or sufficient clay is not available an alternative proposal must be submitted to the Director for written approval prior to construction.
30. The Operator shall 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, unless otherwise approved by the Environment Officer.

31. The Operator shall take and test undisturbed soil samples from the following:
 - a) the clay of new waste disposal cell(s);
 - b) leachate ponds; and
 - c) any clay component of the Facility requiring testing by the Director.
32. The number and location of samples and test methods will be specified by the designated Environment Officer up to a maximum of twenty (20) samples per cell or clay component of the Facility.
33. The Operator shall, prior to operation of any area tested in accordance with Condition 31, receive the approval of the Environment Officer for the results of the tests carried out pursuant to Condition 31 of this Permit.
34. The Operator shall, within 120 days of the completion of construction of a new waste disposal cell, submit "record drawings" along with a construction report to the Director. The construction report shall comprise, without being limited to, the following: the engineer's inspection dates and notes, density measurements (for clay lined facility), updated site plan showing the new cell and monitoring well installation logs, locations and background water samples (if applicable).

Burning of Specified Waste

35. The Operator shall obtain a Permit to Burn as required under The Wildfires Act prior to igniting any fires at the Facility.
36. The Operator shall only burn 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 only when there is an appropriate volume of this material. Plywood, composite board or other materials constructed with glues, finishes or preservatives must not be burned.
37. The Operator shall not burn, other than those materials specified in Condition 36 of this Operating Permit, any products or materials including but not limited to plastics, composites, rubber, manures, chemically treated fabrics, mattresses, finished furniture, or man-made synthetics.

Monitoring and Reporting Requirements

38. Groundwater monitoring well samples shall be collected, stored and analyzed using approved field and laboratory techniques for dissolved analysis. The analytical results shall be retained in a format acceptable to Manitoba Conservation and Climate.
39. The Operator shall sample the groundwater monitoring for those parameters identified in Appendix A once per year, or at a frequency approved by the Director.
40. The Operator shall sample the two monitoring wells installed within the cell constructed in November 2013 for leachate in July of each year. The temperature of the leachate must be recorded and reported with the analytical results. The leachate shall be tested for the parameters identified in Appendix A.

41. The Operator shall submit an annual report, in a format acceptable to the Director, detailing the sampling methodology, field observations and results of groundwater sampling analyses, complete with previous results and trends. The report shall be submitted to the designated Environment Officer no later than December 31 of each year.

Revocation

42. This Permit replaces Permit No. 44448 which is hereby rescinded.

March 22, 2021

Original Signed by:

Shannon Kohler, Director
The Environment Act

Appendix A Ground Water Chemistry Parameters

Chemical Parameters	
Inorganics	
Alkalinity – Total	Magnesium – Dissolved
Ammonia – Total	Manganese – Dissolved
Arsenic – Total	Mercury – Dissolved
Barium – Dissolved	Nitrate - Reported as N
Boron – Dissolved	Nitrite - Reported as N
Cadmium – Dissolved	Total Kjeldahl Nitrogen – Reported as N
Calcium – Dissolved	Total Phosphorous
Calcium Carbonate	Potassium – Dissolved
Chloride	Silicon – Dissolved
Chromium – Dissolved	Sodium – Dissolved
Conductivity	Total Dissolved Solids (TDS)
Copper – Dissolved	Sulphate
Iron – Dissolved	Uranium – Dissolved
Lead – Dissolved	Zinc – Dissolved
Volatile Organic Compounds (VOC's)	
BTEX	
Other Organics	
Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)
Dissolved Organic Carbon (DOC)	
Field Parameters	
pH	Groundwater Elevation
Conductivity	Dissolved Oxygen
Temperature	

Note: This Appendix is subject to revision at any time by the Director.
All metals (except Arsenic) are to be sampled for dissolved analysis.
Dissolved samples should be filtered in the field and preserved in the field at time of sampling. If dissolved samples are not to be filtered and preserved in the field then the Director and the Laboratory must be notified prior to sampling.