



Sustainable Development

Environmental Stewardship Division
Environmental Approvals Branch,
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www.gov.mb.ca/sd/eal

File: 54941

June 27, 2018

Mr. Steward Sabiston
Director
Manitoba Indigenous and Northern Relations
27 – 2nd Avenue SW
Dauphin, MB R7N 3E5

Louise McCreery, CAO
Waterhen Community Council
Box 68
Waterhen, MB R0L 2C0

Re: Waterhen Regional Solid Waste Facility, Permit 43361 P1

Enclosed please find the Permit for your waste disposal ground.

Please note that failure to comply with any condition of the Permit may result in prosecution pursuant to the Waste Management Facilities Regulation.

Pursuant to Section 27 of The Environment Act, this Permit may be appealed to the Minister of Sustainable Development by any person who is affected by the issuance of this permit within 30 days of the date of issue.

In addition to the enclosed Permit requirements, please be informed that all other applicable federal, provincial and municipal regulations and by-laws must be complied with.

If you have any questions concerning the Permit or procedures, please call Peter Crocker in Brandon at (204) 726-6565 or via electronic mail at peter.crocker@gov.mb.ca.

Yours sincerely,

Tracey Braun, M.Sc.
Director

c: D. Labossiere/T.Prawdzik, Environmental Compliance and Enforcement Branch

NOTE: Confirmation of Receipt of this Permit No. 43361 P1 (*by the Permittee only*) is required by the Director of Environmental Approvals. Please acknowledge receipt by signing in the space provided below and emailing (solidwaste@gov.mb.ca) or faxing a copy (letter only) to the Department by July 28, 2018.

On behalf of Indigenous & Northern Relations

Date

Waste Disposal Ground Operating Permit

Permit No: 43361 P1

Client File: 54941

In accordance with the Waste Management Facilities Regulation, made under The Environment Act, **Manitoba Indigenous and Northern Relations** and the **Community Council of Waterhen** are hereby permitted to operate a **Waste Disposal Ground** to be known as the **Waterhen Regional Solid Waste Facility** situated at NE and part SE 13-33-16 WPM 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 May 31, 2023.
2. The Operator shall maintain and operate the Waterhen Regional Solid Waste Facility (the Facility) in accordance with the most current version of the Waste Management Facilities Regulation (M.R. 37/2016) and this Operating Permit.
3. Within six (6) months of issuance of this permit, the Operator shall develop an Operations Manual detailing the operation and maintenance for this Facility in accordance with M.R. 37/2016. This manual should include but not be limited to a detailed list of waste and recyclable materials accepted, emergency and safety procedures, composting materials accepted and composting practices, fish waste handling and management practices (if accepted), location where materials not accepted are diverted to, and active cell development, maintenance, cover and closure practices. The Operator shall provide the Manual to an Environment Officer upon request.
4. The Operator shall maintain a copy of the Operations Manual developed pursuant to M.R. 37/2016 and a copy of this Operating Permit at the Facility or where the Facility is managed.
5. The Operator shall obtain approval in writing from the Director for any proposed alterations to the Facility before proceeding with the alteration.

Site Access and Control

6. The Operator shall 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. Materials collected for recycling or reuse must be segregated and temporarily stockpiled in clearly signed designated areas. These areas must be maintained to control weeds, vectors and quality of the materials. The Operator shall have the materials removed regularly or upon the request of an Environment Officer, within the timeframe specified.

8. Recyclable materials such as, but not limited to, bulky metallic waste, E-Waste, and rubber tires must be segregated in an area of the Facility other than the waste disposal cells (active area) and those areas must be appropriately signed.
9. The Operator shall remove any litter accumulated along the access road and around the perimeter of the site at minimum twice annually or as required by an Environment Officer.
10. The Operator shall only accept asbestos that is packaged in accordance with the current edition of Guidelines for an Asbestos Operations and Maintenance Program from Workplace Safety and Health Division. All asbestos shall be covered immediately with a minimum of 1 metre of material and the location for disposal shall be documented, provided to the Environment Officer and recorded in the Facility operation and maintenance plan, accessible to all operators.

Hazardous Wastes

11. The Operator shall collect and dispose of hazardous waste in accordance with The Dangerous Goods Handling and Transportation Act, other Provincial and Federal Regulations.

Placement and Cover

12. An Environment Officer must approve receipt of more than ten tonnes of dead animals from a single source and event. Dead animal material received at the Facility which may be identified as Specified Risk Material (SRM) must be handled in accordance with Canadian Food Inspection Agency requirements.
13. The Operator may use material other than soil for cover of the active area upon receiving written approval from the Director or Environment Officer.

Surface Water Management

14. The operator shall develop and maintain a surface water drainage network to minimize water from entering active cells, recycling and storage areas.

Site Construction and Upgrading

15. The Operator shall have all waste disposal cells, modifications or alterations designed by and construction overseen by a Professional Engineer.
16. 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.
17. The Operator shall construct the Facility in accordance with the design plans submitted to the Director pursuant to Condition 16 of this Permit and subject to any terms and conditions set by the Director.
18. Notwithstanding Condition 16, 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.
19. 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.
20. The Operator shall take and test undisturbed soil samples from the following:
- a) the clay of new waste disposal cell(s), not contained within an area confined by a cut-off wall and impermeable base;
 - b) the base of a new cell within the area confined by the cut-off wall;
 - c) cut-off walls;
 - d) leachate ponds; and
 - e) any clay component of the Facility requiring testing by the Director.
21. 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.
22. The Operator shall, prior to operation of any area tested in accordance with Condition 20, receive the approval of the Environment Officer for the results of the tests carried out pursuant to Condition 20 of this Permit.
23. The Operator shall, within 120 days of the completion of construction of the waste disposal ground or 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.
24. The leachate evaporation pond base and interior of the berms shall be lined with one metre of suitable clay compacted to 95% Standard Proctor Density on a maximum lift of 150mm.

Composting

25. The Operator shall compost only yard and leaf waste. Any other feedstock requires approval from the Environment Officer, prior to acceptance.

Burning of Specified Waste

26. The Operator shall obtain a Permit to Burn as required under The Wildfires Act (W128) prior to igniting any fires at the Facility.
27. 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.

28. The Operator shall not burn any other 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

29. A minimum of three groundwater monitoring wells (one upstream and two downstream) shall be installed and sampled prior to commissioning the waste cells.
30. 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 Sustainable Development.
31. The Operator shall sample the groundwater monitoring for those parameters identified in Appendix A once per year, or at a frequency as approved by the Director.
32. 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 annually.

June 27, 2018


Tracey Braun, M.Sc.
Director

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.