



Environmental Stewardship Division  
Environmental Approvals Branch  
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File: 57637

December 18, 2019

Mr. Robert Powderhorn  
Councillor  
Sayisi Dene First Nation  
General Delivery  
Tadoule Lake, MB R0B 2C0

Dear Mr. Powderhorn:

**Re: Sayisi Dene Community Waste Disposal Ground, Permit 40015 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 Conservation and Climate 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 Jeff Fountain in Thompson at (204) 677-6703 or via electronic mail at [jeff.fountain@gov.mb.ca](mailto:jeff.fountain@gov.mb.ca).

Please note that for Conditions under Site Construction and Upgrading of the Permit, the designated Environment Officer is Cory Graham of the Environmental Approvals Branch, who may be contacted at [cory.graham@gov.mb.ca](mailto:cory.graham@gov.mb.ca) or 204-250-7645.

Yours sincerely,

Siobhan Burland Ross, M.Eng., P. Eng.  
Director  
The Environment Act

c: S. Kohler/P. Crocker/J.Fountain, Environmental Compliance and Enforcement Branch  
C. Graham, Environmental Approvals Branch

**NOTE:** Confirmation of Receipt of this Permit (*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](mailto:solidwaste@gov.mb.ca)) or faxing a copy (letter only) to the Department by January 8, 2020.

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On behalf of Sayisi Dene First Nation

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Date



# Waste Disposal Ground Operating Permit



**Permit No: 40015 P1**

**Client File: 57637**

In accordance with the Waste Management Facilities Regulation, made under The Environment Act, the **Sayisi Dene First Nation** is hereby permitted to operate a **Waste Disposal Ground** to be known as the **Sayisi Dene Community Disposal Ground** situated on parts of **NW and NE 11-112-07 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 November 30, 2024.
2. In accordance with Section 29 of the Waste Management Facilities Regulation, this permit is issued to the Facility with a variance to the distance from a body of surface water requirements. Based upon the proximity of the surface water body to the waste disposal ground, the Operator shall sample the surface water body for the baseline parameters stipulated in Appendix A once annually starting in Summer 2020.
3. The Operator shall construct, maintain and operate the Sayisi Dene Community Waste Disposal Ground (the Facility) in accordance with the most current version of the Waste Management Facilities Regulation (M.R. 37/2016), the engineering submission prepared by Aski Geosciences Ltd. dated November 14, 2014, hereafter referred to as The Plan, and this Operating Permit.
4. The Operator shall maintain 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, location where materials not accepted are diverted to, and active cell development, maintenance, cover and closure practices. The Operator shall provide the Manual to the designated Environment Officer prior to March 1, 2020; and upon request afterwards.
5. 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.
6. 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**

7. 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.
8. The Operator shall install and maintain a perimeter fence designed to restrict access to the Facility.
9. The Operator shall permanently and visibly mark or identify the legal property boundaries of the parcel that contains the waste disposal ground.

### **Materials Acceptance and Handling**

10. 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.
11. 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.
12. 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 in accordance with the Guidelines 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**

13. 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**

14. 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**

15. The site shall be constructed such that all uncontaminated surface water flows to the perimeter ditch and impacted water from all material storage areas shall be contained within the Facility boundaries.

### **Site Construction and Upgrading**

16. The Operator shall have all waste disposal cells, modifications or alterations designed by and construction overseen by a Professional Engineer.
17. 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.
18. The Operator shall construct the Facility in accordance with the design plans submitted to the Director pursuant to Condition 17 of this Permit and subject to any terms and conditions set by the Director.
19. Notwithstanding Condition 17, 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;
  - b) all active areas or leachate containment developed from or with clay must be constructed to achieve a hydraulic conductivity of not more than  $1 \times 10^{-7}$  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;
  - c) Installation of the High Density Polyethylene (HDPE) liner shall be carried out in accordance with the specifications from the liner manufacturer and under continuous and direct supervision of the Engineer or a qualified installation supervisor designated by the manufacturer;
  - d) Destructive and non-destructive testing of the HDPE liner shall be carried out and results compiled and provided to the Director for approval; and
  - e) The active area (cell) shall be constructed to retain any flyaway loose garbage or the Operator shall install a 1.0 metre fence constructed in such a manner as to contain the solid waste around the active area upon the request of an Environment Officer.
20. 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.
21. 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.
22. 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.

23. The Operator shall, prior to operation of any area tested in accordance with Condition 21, receive the approval of the Environment Officer for the results of the tests carried out pursuant to Condition 21 of this Permit.
24. The Operator shall, within 90 days of the completion of any new waste 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), QC/QA for HDPE lined facility and monitoring well background water samples.
25. No person shall set the waste disposal ground into operation, or allow the deposition of any solid waste at the Facility until authorized in writing by the Director or Environment Officer.

#### **Environmental Emergency Reporting**

26. The Operator shall, in the event of a fire which continues in excess of thirty (30) minutes, report the fire to the Environmental Emergency Response line by calling 1-855-944-4888 and identify the type of material involved and the location of the fire.

#### **Burning of Specified Waste**

27. The Operator shall submit to the Director for approval, designs or plans for the development of a burn area in accordance with Section 17(2) of the Regulation by March 1, 2020.
28. The Operator shall construct the burn area, approved in Clause 27, within the timelines and any conditions specified in the approval.
29. No person shall set the burn area into operation, or allow the burning of specified wastes at the Facility until authorized in writing by the Environment Officer.
30. The Operator shall obtain a Permit to Burn as required under The Wildfires Act (W128) prior to igniting any fires at the Facility.
31. 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.
32. 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**

33. 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.
34. The Operator shall sample the groundwater and surface water for those parameters identified in Appendix A once per year, or at a frequency as approved by the Director.
35. The Operator shall sample the groundwater at the Former Landfill Site for those parameters identified in Appendix A once per year, or at a frequency as approved by the Director, until such time as the Director issues a Closure Notice with associated terms and conditions for Post Closure operation.
36. The Operator shall submit an annual report, in a format acceptable to the Director, detailing the sampling methodology, field observations and results of groundwater and surface water sampling analyses, complete with previous results and trends. The report shall be submitted to the designated Environment Officer no later than December 31 annually.

### **Revocation**

37. This Permit replaces Permit No. 40015 which is hereby rescinded.



December 18, 2019

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Siobhan Burland Ross, M.Eng., P. Eng.  
Director  
The Environment Act

## Appendix A Ground Water Chemistry Parameters

Chemical Parameters		
<b>Inorganics</b>		
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
<b>Volatile Organic Compounds (VOC's)</b>		
BTEX		
<b>Other Organics</b>		
Biological Oxygen Demand (BOD)		Chemical Oxygen Demand (COD)
Dissolved Organic Carbon (DOC)		
<b>Field Parameters</b>		
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.