



November 6, 2017  
Project No. 170518-02

Sahtu Land and Water Board  
Box 1  
Fort Good Hope, NT X0E 0H0

**Memorandum: Waste Management Plan – Norman Wells Airport Land Treatment Unit**

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BluMetric Environmental Inc. (BluMetric) has prepared this waste management plan (WMP) for drilling activities being planned to establish monitoring wells at the airside Land Treatment Unit (LTU) on the Norman Wells Airport property, in Norman Wells, Northwest Territories in support of the Land Use Permit (LUP) application to the Sahtu Land and Water Board (SLWB).

The work is being completed on behalf of Transport Canada. This plan demonstrates that BluMetric has an appropriate plan in place to effectively manage the waste that is expected to be generated during the groundwater monitoring well drilling activities at the Norman Wells Airport LTU. A total of three monitoring wells will be drilled located upgradient and downgradient of the LTU. A Figure showing the proposed well locations has been included in the LUP application. BluMetric will contract Midnight Sun Drilling Inc. to undertake all drilling activities including monitoring well construction.

The proposed project will consist of the following components:

- Mobilizing the drill rig and associated support vehicle to the LTU on Norman Wells Airport property from within Norman Wells.
- Drill three boreholes and install groundwater monitoring wells in the vicinity of the LTU.

Tel. 867-873-3500  
Fax. 867-873-3499

BluMetric Environmental Inc.

4916 49th Street, Yellowknife, Northwest Territories, Canada X1A 1P3  
Post Office Box 11086, Yellowknife, Northwest Territories, Canada X1A 3X7

[www.blumetric.ca](http://www.blumetric.ca)



## COMPANY INFORMATION

### Contact Information:

<p>BluMetric Environmental <i>Physical address (courier packages):</i> 4916 49 Street Yellowknife, NT X1A 1P3 Tel: 867-873-3500 Fax: 867-873-3499 <a href="#">map</a></p> <p><i>Postal address:</i> P.O. Box 11086 Yellowknife, NT, X1A 3X7 Project Manager: Andrea Jenney Senior Engineer (705) 525-6075 x25 <u>Yellowknife Office Numbers</u> Tel: 867-873-3500 Fax: 867-873-3499</p>	<p>Midnight Sun Drilling Inc. <i>Physical address (courier packages):</i> 6 Chadburn Crescent Whitehorse, YT Y1A 5Z3 Tel: 867-873-3500 Fax: 867-873-3499</p> <p><i>Postal address:</i> 108 Elliot Street, Suite 413 Whitehorse, YT Y1A 6C4 Contacts: Glenn Thiessen, Project Manager C: 403-650-8225 E: <a href="mailto:glenn@midnightsundrilling.com">glenn@midnightsundrilling.com</a></p>
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## EFFECTIVE DATE OF PLAN

This WMP is effective upon Sahtu Land and Water Board (SLWB) approval of the Land Use Permit for the drilling and installation of three monitoring wells around the perimeter of the LTU on the Norman Wells Airport property.

## PURPOSE AND SCOPE

This WMP deals specifically with procedures and policies for the safe and responsible handling, storage, and disposal of waste materials, which have served their original purpose and are scheduled for disposal.

## LEGISLATION AND GUIDELINES

The three monitoring wells will be constructed and operated under a Land Use Permit issued by the SLWB. The principle applicable legislation related to the potential wastes produced during this drilling program is the Northwest Territories (NWT) Environmental Protection Act (EPA). The primary contaminant of concern at the Norman Wells Airport LTU is Petroleum Hydrocarbons and BTEX and no other hazardous materials are anticipated to be encountered at the site during the drilling program based on historical environmental site assessments at the site.

## WASTE MANAGEMENT PRINCIPLES

The following principles will be incorporated into the Norman Wells Airport LTU monitoring well drilling and installation. All waste generated on-site is the responsibility of BluMetric and will be disposed of at the appropriate facilities. The waste management program will attempt to minimize waste production by applying the principles of reducing the use of materials, reusing materials whenever possible, recycling materials, and recovering value from used materials.

### Waste Streams

BluMetric will ensure that separate waste types are segregated and disposed of at appropriate waste facilities as outlined in **Table 1**.

**Table 1: Segregated Waste Streams for the Project**

Waste Stream	Description	Handling Method	Disposal Method
Drill cuttings (soil) and snow	Soil removed during the drilling of the boreholes for the monitoring well locations and the adjacent snow.	Place the soil within a drum or drums.	After the successful completion of the monitoring well installation, the drummed soil will be disposed of within the adjacent LTU.
Domestic Wastes (organic and non-organic)	Organic and non-organic waste, including well construction material packaging, garbage and/or food scraps.	Place in appropriate waste containers.	Domestic non-hazardous waste will be removed from the support truck at the end of each day and disposed of at the Town of Norman Wells solid waste facility.

The drilling program is small in nature and the driller does not anticipate the use of any other materials that will generate hazardous or non-hazardous waste associated with the work.

If you have any questions, or require further assistance, please feel free to contact the undersigned at your convenience.

Yours sincerely,



Daniel Tucholski, B.A.  
Environmental Scientist



Andrea Jenney, P.Eng.  
Senior Engineer