

**NWB Annual Report**

**Year being reported:** 2012 ▼

**License No:** 3BC-FCA1212 **Issued Date:** June 11, 2012  
**Expiry Date:** December 31, 2012

**Project Name:** Flora of the Canadian Arctic

**Licensee:** Dr. Jeffery M. Saarela

**Mailing Address:** P.O. Box 3443, Station D, Ottawa, Ontario, K1Y 1X7, Canada  
[Canadian Museum of Nature](#)

**Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):**

**General Background Information on the Project (\*optional):**

**Licence Requirements: the licensee must provide the following information in accordance with**

Part B ▼ Item 1 ▼

**A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.**

Water Source(s):	Soper River, Fundo lake	
Water Quantity:	5	Quantity Allowable Domestic (cu.m)
	0.5	Actual Quantity Used Domestic (cu.m)
	0	Quantity Allowable Drilling (cu.m)
	0	Total Quantity Used Drilling (cu.m)

**Waste Management and/or Disposal**

- ☒ Solid Waste Disposal
- ☐ Sewage
- ☐ Drill Waste
- ☒ Greywater
- ☐ Hazardous
- ☐ Other:

**Additional Details:**

**A list of unauthorized discharges and a summary of follow-up actions taken.**

Spill No.:  (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

### Revisions to the Spill Contingency Plan

N/A - not applicable



Additional Details:

### Revisions to the Abandonment and Restoration Plan

N/A - not applicable



Additional Details:

### Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

All reclamation work for sites erected was completed during the licence period. Water was taken directly from the Soper River using a jug or handheld water pump, with no impact to the landscape, therefore, no reclamation work was necessary for the water extraction sites.

For the sump sites, shallow holes (10-20 cm), were dug into the soil for the disposal of wastewater. At the end of their use, each sump site was filled in with the original displaced soil leaving no impressions in the tundra.

For the pit latrines, each pit was dug to 1 meter deep and 20 cm across. These were incrementally filled with some of the displaced dirt during each use, and each was filled in completely at the end of each use filled completely with displaced soil. All markers were removed from pit sites, leaving the location in its original state.

### Results of the Monitoring Program including:

**The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;**

Details described below



Additional Details:

63°14'55.5"N, 69°36'20.6"W

63°09'46.9"N, 69°39'25.7"W

63°06'34.4"N, 69°43'40.3"W

62°59'06.9"N, 69°43'06.0"W  
 62°50'48.5"N, 69°53'36.1"W

**The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;**

Details described below ▼

Additional Details:

63°14'54"N, 69°36'23"W  
 63°14'53.99"N, 69°36'22.99"W  
 63°09'46.4"N, 69°39'23.9"W  
 63°09'44.0"N, 69°39'23.0"W  
 63°06'46.4"N, 69°43'41.7"W  
 63°06'30.3"N, 69°43'41.4"W  
 62°59'02.4"N, 69°43'02.9"W  
 62°59'02.0"N, 69°43'02.9"W

**Results of any additional sampling and/or analysis that was requested by an Inspector**

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (date of request, analysis of results, data attached, etc)

**Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.**

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (Attached or provided below)

**Any responses or follow-up actions on inspection/compliance reports**

No inspection and/or compliance report issued by INAC ▼

Additional Details: (Dates of Report, Follow-up by the Licensee)

**Any additional comments or information for the Board to consider**

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**Date Submitted:**

March 14th, 2014

**Submitted/Prepared by:**

Dr. Jeffery M. Saarela

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