

NWB Annual Report

Year being reported: 2014 ▼

License No: 3BC-NEI1215 **Issued Date:** May 8, 2012
Expiry Date: May 7, 2015

Project Name: Northern Ellesmere Ice Shelves, Epishelf Lakes & Climate Impacts

Licensee: Dr Luke Copland

Mailing Address: Department of Geography
 University of Ottawa
 60 University Pvt (Room SMD047)

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):

The project consists of small temporary scientific camps in tents

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

Part B ▼ Item 2 ▼

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):	Milne Fiord Epishelf Lake, and a stream flowing into this lake		
Water Quantity:	10	Quantity Allowable Domestic (cu.m)	
	0.8	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:

Urine and greywater was disposed of on land, appox. 0.02 cu. m per day. Solid human waste was flown out and disposed of in Resolute Bay

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)

No unauthorized discharges occurred

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

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)

N/A

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:

Water was used at a camp at the Purple Valley summer strip (82°27'57.1862"N 80°43'29.2755"W) and at a camp on the Milne Ice Shelf (82°42'09.9223"N 81°18'34.5783"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:

Greywater and urine was disposed of ~200 m away from the stream at the summer strip (82°27'49.5292"N, 80°44'0.5156"W) and adjacent to the camp on the Milne Ice Shelf (82°42'09.9223"N 81°18'34.5783"W) with drainage directly into the ocean

via a crack in the ice

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

The project consisted of a small temporary scientific camp, consisting of 1 kitchen tent, and up to 7 personal tents. It was occupied for 4 days by 3 people and by 4 people for 15 days in July. We stayed mostly at the Purple Valley Summer Strip but 4 of us spent 2 nights on the Milne Ice Shelf. All water use was for domestic purposes. Fuel was placed in a secondary containment unit as requested.

Date Submitted:

2015/01/24

Submitted/Prepared by:

Derek Mueller

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GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
Purple Valley summer strip	82	27	57.19	80	43	29.28
Milne Ice Shelf Camp	82	42	9.92	81	18	34.58

GPS Locations of areas of waste disposal

[illegible]