

NWB Annual Report

Year being reported:

2014 ▼

License No: 3BC-ALT1015

Issued Date: August 4, 2010

Expiry Date: July 31, 2015

Project Name:

Canadian Forces Station (CFS) Alert, Nunavut

Licensee:

Department of National Defence - 1 Canadian Air Division

Mailing Address:

A4 Construction Engineering
 Department of National Defence - 1 Canadian Air Division
 PO Box 17000, STN Forces, Winnipeg, MB, R3J 3Y5

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

8 Wing Environmental Management
 Room 308, Building 22, 74 Polaris Ave.
 Department of National Defence - 8 Wing/ CFB Trenton
 Box 1000, Stn Forces
 Astra, Ontario, K0K 3W0

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):

Upper Dumbell Lake, Nunavut.

Water Quantity:

185

Quantity Allowable Domestic (cu.m)

406

Actual Quantity Used Domestic (cu.m)

Quantity Allowable Drilling (cu.m)

Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

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

Landfarms

Additional Details:

Appendix A: Monitoring Program Station No. ALT-1
 Appendix B: Monitoring Program Stations No. ALT-2-3
 Appendix C: Monitoring Program Stations No. ALT-4-5-6-7
 Appendix D: Monitoring Program Stations No. ALT-8-9-10-11

Appendix E: June Analysis Results for ALT-4-5-6-8-9-10
 Appendix F: July Analysis Results for ALT-4
 Appendix G: August Analysis Results for ALT-4
 Appendix H: July Analysis Results for ALT-8
 Appendix I: List of Waste Disposal Activities / Copies of Movement Documents
 Appendix J: Progressive and Final Reclamation Work Undertaken
 Appendix K: Revised Quality Assurance & Quality Control (QA/QC) Plan

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

Spill No.: 14-448 (as reported to the Spill Hot-line)

Date of Spill: 14-12-2014

Date of Notification to an Inspector: 15-12-2014

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

A break in the heat recovery pipeline released 600L of ethylene glycol outside between the CFS Alert Supply Ware House and Power Plant. Working under extremely cold weather, 3 barrels of glycol contaminated snow was recovered for hazwaste disposal. Corrosion of the copper pipeline was determined to be the cause; this section was replaced. A project file was raised to inspect the entire heat recovery pipeline in summer 2015. No impacts to water bodies.

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed



Additional Details:

No revisions required.

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed



Additional Details:

No revisions required.

Progressive Reclamation Work Undertaken

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

See Appendix M.

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:

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:

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

Select



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

A. At the time of this Annual Report submission, DND is also submitting a Water Licence amendment/renewal application to renew the licence and to address compliance issues:

- 1) Increase Water Usage limit (Intake, Return, Consumption limits);
- 2) Addition of a new Landfarm Facility at ALT-10, DND requests similar SNP conditions as the current Landfarm at ALT-11.

B. DND contracted a new laboratory service provider and has revised the Quality Assurance and Quality Control (QA/QC) Plan within the the Operation & Maintenance (O&M) Plan for CFS Alert. Only the revised QA/QC Plan is submitted for the NWB approval; the remainder of the O&M Plan did not require revisions and is not attached.

Date Submitted:

March 31, 2015

Submitted/Prepared by:

Andrew Tam, PhD

Contact Information:
Tel: 613-392-2811 ext 4821

Fax: 613-965-3368

email: Andrew.Tam@forces.gc.ca
GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg	Min	Sec	Deg	Min	Sec
Upper Dumbell Lake	82	29	6.2	-62	28	9.5

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	Deg °	Min ,	Sec ,	Deg °	Min ,	Sec ,
Alert Battery Dump	82	29	16	-62	23	15.32
Alert Main Station Landfill	82	30	17	-62	20	14.89
Alert Dump # 3	82	29	18	-62	20	57.01
Landfarm (ALT-11)	82	30	40	-62	18	37.6
Millionaire's Dump	82	29	19	-62	21	30.4
Sewage Terrace/Outf all	82	29	56	-62	21	4.8
Landfarm (ALT-10, new)	82	29	58	-62	21	16