NWB Annual	Report	Year being reported: 2013 ▼		
License No:	3BC-ALT1015	Issued Date: August 4, 2010		
		Expiry Date: July 31, 2015		
	5			
	Project Name:	Canadian Forces Station (CFS) Alert, Nunavut		
	Licensee: De	epartment of National Defence - 1 Canadian Air Division		
	Mailing Addres	A4 Construction Engineering Department of National Defence - 1 Canadian Air Division PO Box 17000, STN Forces, Winnipeg, MB, R3J 3Y5		
		any 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			
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	· •	· · · · · · · · · · · · · · · · · · ·		
	Astra, Ontario, k	OK 3W0		
General Bac	karound Informa	ation on the Project (*optional):		
with A summary i	Part B	icensee must provide the following information in accodance Item 1 se and waste disposal activities, including, but not limited to: methods of greywater management; drill waste management; solid and hazardous		
waste manag	gement.			
	Water Source(s) Water Quantity:	Upper Dumbell Lake, Nunavut. 185 Quantity Allowable Domestic (cu.m) 639 Actual Quantity Used Domestic (cu.m) Quantity Allowable Drilling (cu.m) Total Quantity Used Drilling (cu.m)		
	✓ Solid Waste ✓ Sewage ☐ Drill Waste ✓ Greywater ✓ Hazardous ✓ Other: Additional Detail Appendix A: Mor	Landfarms		
		nitoring Program Stations No. ALT-4-5-6-7		
		nitoring Program Stations No. ALT-8-9-10-11		
	IAnnendiy Ft. luni	⊇ Analysis Results for ΔI T-Δ-5-6-7-8-9-10		

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Appendix E: June Analysis Results for ALT-4-5-6-7-8-9-10

Appendix F: July Analysis Results for ALT-4-5-8-9-10

Appendix G: August Analysis Results for ALT-6

Appendix H: July Analysis Results for ALT-9 Lead Treatment Filtered Effluent

Appendix I: August Analysis Results for ALT-9 Straight Discharge Effluent

Appendix J: Analysis Results for Gravel Samples at ALT-8-9-10

Appendix K: Analysis Results for Lead-in-Fuel at ALT-8

Appendix L: List of Waste Disposal Activities / Copies of Movement Documents

Appendix M: Progressive and Final Reclamation Work Undertaken

Appendix N: Compliance Plan

Appendix O: Revised Operation & Maintenance (O&M) Plan for CFS Alert

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

Spill No.: | 13-093 | (as reported to the Spill Hot-line)

Date of Spill: 21-03-2013

Date of Notification to an Inspector:

21-03-2013

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

An indoor fuel release of 851L was contained within a secondary containment trench at the CFS Alert Stand-by Power Plant fuel storage room. As this release was indoors and contained, approx. 849 L was recovered into barrels for re-use, and the residuals cleaned and disposed properly by incineration. A cracked glass filter sight glass was determined to be the cause; this and all other similar sight glasses were replaced. No impacts to the water or outdoor environment.

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

Date of Spill: 17-06-2013

Date of Notification to an Inspector:

an Inspector: 18-06-2013

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

A 4L spill of hydraulic oil occurred at the CFS Alert Runway Gravel Storage Area from a broken hydraulic line on a loader. The extent of contaminated gravel was excavated and placed into drums for disposal options. There were no impacts to any water or the environment. The loader was sent back to the transport section for repairs.

Spill No.: 13-294 (as reported to the Spill Hot-line)

Date of Spill: 27-08-2013

Date of Notification to an Inspector:

n to an Inspector: 27-08-2013

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

A 100L spill of domestic fuel occurred at a Fuel Pipeline Air Bridge at CFS Alert between the Main Power Plant and Supply Building. The spill was a result of a faulty air relief valve. The full extent of the contaminated gravel (21 cu.m.) was excavated and placed into the newly constructed Day Tank Landfarm (ALT-10) for bioremediation treatment. The concentration of hydrocarbon is provided in Appendix L. Fertilizer (monoammonium phosphate) was placed in the excavated area prior to back fill with clean gravel material to promote bioremediation of any residual hydrocarbon. There were no impacts to water.

Revisions to	the Spill Contingency Plan
	SCP addendum attached for Board consideration
	Additional Details:
	SCP revised and can be found in Appendix O.
	To note and can be really in Appendix of
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 th	ne 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 of the board	•
/	Additional Details: (Attached or provided below)	

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

No additional campling requested by an Inspector or the Board

Inspection Report received by the Licensee (Date):

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

Water Use Inspection Report dated July 10, 2013; received on August 7, 2013. See Appendix N.

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 application 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. Due to the construction of a new Landfarm at ALT-10 Fuel Day Tank Facility, the Operation & Maintenance (O&M) Plan for CFS Alert has been revised for the NWB approval. The O&M Plan (Appendix O) includes the updated Spill Contigency Plan (SCP) and Quality Assurance & Quality Control (QA&QC) Plan.

Date Submitted: Submitted/Prepared by:

March 31, 2014

Contact Information:

Andrew Tam, PhD **Tel:** 613-392-2811 ext 4821

Fax: 613-965-3368

email: Andrew.Tam@forces.gc.ca

GPS Coordinates for water sources utilized

_	Latitude			Longitude		
Source Description	o Deg	, Rin	, Sec	o Deg	, Min	Sec
Upper Dumbell						
Lake	82	29 6	.2	-62	28	9.5

GPS Locations of areas of waste disposal

Location	Latitude			Longitude		
Description (type)	o Deg	, Min	, Sec	o Deg	, Min	, Sec
Alert Battery	00	00	40	00	00	45.00
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	82			-62		30.4
Dump		29	19		21	
Sewage	82	29	56	-62	21	4.8
Terrace/Outf						
all						
Landfarm	82	29	58	-62	21	16
(ALT-10,						
new)						