

February 1, 2012

Jeff Mercer  
Manager, Land Administration  
Aboriginal Affairs and Northern Development Canada  
969 Qimugjuk Building  
P.O. Box 2000  
Iqaluit, NU X0A 0H0

Dear Jeff:

**Project: DYE-M, Cape Dyer**

**Regarding: Annual Report and Extension Request for Land Use Permit N2008X0003**

AECOM is providing the following annual report, which summarizes the activities completed in 2011 at the DYE-M, Cape Dyer DEW Line site. The information is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

The following is a detailed summary of the work items completed during the 2011 summer construction season at the DYE-M, Cape Dyer site:

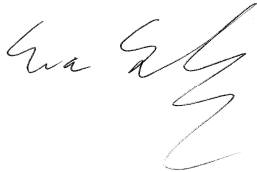
- The two Atwell Dormitories, two small billboards, the Abandoned Powerhouse, the Power and Equipment Building, and the Switch House were demolished.
- Activities at the landfarm consisted of landfarming the hydrocarbon-contaminated soils and repairs to the berm.
  - Landfarming included weekly tilling of the soils and collection of samples for moisture content determination. No moisture conditioning was required in 2011.
  - The berm repairs were completed in the middle of August. The work included the placement of additional Type 3 granular material in the sloughed section. Type 3 granular fill was added to the buttress top along an approximately 50 m stretch outside of the east berm and compacted with a steel drum compactor. A total length of 200 m was scarified along the top horizontal surface and re-compacted with a steel drum compactor to fill in the cracks.
- Activities at the Lower Site Non-Hazardous Waste Landfill (NHWL) consisted of placing debris and soil in the landfill cell and minor ditching outside the landfill. No work was carried out on the capped cell of the landfill.
  - Landfilling was carried out in early to mid-September. Only one lift was placed in the cell, which was covered with intermediate fill for the winter.
  - The debris contained galbestos from the Abandoned Powerhouse demolition and other demolition debris from the Atwell Dormitories.
  - Once the debris was placed it was covered with intermediate fill.

- Activities at the Lower Site Tier II Disposal Facility consisted of placing small amounts of Tier II soil in the landfill. No work was carried out on the closed cell of the facility.
  - Only one lift was placed in the facility. This lift was capped for the winter as the season's end.
- Activities at the Upper Site NHWL consisted of removed ponded water and landfilling with debris and intermediate fill soils.
  - Snowmelt and precipitation water were present in the landfill at the start of the season. This water did not meet the discharge criteria set out in the water use license and was treated. Treatment occurred from July 30 to August 13, at which time it was tested and found to meet the discharge criteria. This water was then discharged. Heavy precipitation on Aug. 24-25 filled the landfill up again. This water was not discharged at the end of the season as it did not meet the criteria.
  - The debris originated from demolition activities at the Upper Site including demolition of the Power and Equipment building at the DEW Drop, Abandoned Powerhouse and the small billboards.
  - The debris was covered with intermediate fill at the end of the season.
- Activities at the Upper Site Tier II Disposal Facility consisted of dewatering the facility and placement of a small amount of Tier II soil.
  - Snowmelt and precipitation water present in the landfill at the start of the season met discharge criteria and was discharged.
  - Tier II soils were placed near the centre of the facility.
- Reshaping took place in the Material Processing Area 5 (North).
- Regrading was completed at the Abandoned Powerhouse, small billboard foundations and former wastewater holding basin.
- Landfill excavation at the West Landfill and buried debris excavation of the South Landfill Area proceeded at the Upper Site.
- Baseline monitoring was carried out at the landfills which remain on-site.

Work to be completed in 2012 includes the excavation of all remaining landfills and buried debris areas scheduled for excavation; appropriate disposal of excavation materials in on-site landfills or off-site disposal; excavation of remaining contaminated soil areas; and completion of demolition activities. Final closure of the landfill facilities and demobilization of the camp, construction equipment and the PCB material currently in temporary storage will occur in 2013. In order to complete this work, a one-year extension to the existing permit (2008X0003) is being requested for the 2012 season.

We trust the information provided is sufficient for processing the extension. Please feel free to contact the undersigned if you have any questions or comments.

Sincerely,  
**AECOM Canada Ltd.**

A handwritten signature in black ink, appearing to read 'Eva Schulz', with a stylized flourish at the end.

Eva Schulz, P.Ag.  
Senior Environmental Scientist  
[Eva.Schulz@aecom.com](mailto:Eva.Schulz@aecom.com)

cc: Tamara Van Dyck, DCC

ENCL: Photographs

# PHOTOGRAPHIC LOG



**Site Name:**  
DYE-M, Cape Dyer

**Site Location:**  
Nunavut

**Project No.**  
60212727

**Photo No.**  
1

**Date:**  
21-Jul-  
2011

**Direction Photo  
Taken:**

**Description:**

Landfarm at the start of  
the season.



**Photo No.**  
2

**Date:**  
10-Sep-  
2011

**Direction Photo  
Taken:**

**Description:**

Landfarm at the end of the  
season



# PHOTOGRAPHIC LOG



**Site Name:**  
DYE-M, Cape Dyer

**Site Location:**  
Nunavut

**Project No.**  
60212727

**Photo No.**  
3

**Date:**  
11-Sep-  
2011

**Direction Photo  
Taken:**

**Description:**

Lower Site Non-Hazardous Waste Landfill at the end of the construction season.



**Photo No.**  
4

**Date:**  
11-Sep-  
2011

**Direction Photo  
Taken:**

**Description:**

Lower Site Tier II Disposal Facility at the end of the construction season.





# PHOTOGRAPHIC LOG



**Site Name:**  
DYE-M, Cape Dyer

**Site Location:**  
Nunavut

**Project No.**  
60212727

**Photo No.**  
5

**Date:**  
5-sep-  
2011

**Direction Photo  
Taken:**

**Description:**  
Upper Site Non-  
Hazardous Waste Landfill  
at the end of the  
construction season.



**Photo No.**  
6

**Date:**  
6-sep-  
2011

**Direction Photo  
Taken:**

**Description:**  
Upper Site Tier II  
Disposal Facility at the  
end of the construction  
season.



# PHOTOGRAPHIC LOG

**Site Name:**  
DYE-M, Cape Dyer

**Site Location:**  
Nunavut

**Project No.**  
60212727

**Photo No.**  
7

**Date:**  
28-aug-  
2011

**Direction Photo  
Taken:**

**Description:**

Excavated area at the  
West Landfill prior to  
backfilling.



**Photo No.**  
8

**Date:**  
21-aug-  
2011

**Direction Photo  
Taken:**

**Description:**

Removal of large tanks at  
the Buried Debris  
Excavation (South Landfill  
Area).

