

**Project No: Water Use License 1BR-DYE0914 2011 Annual Report**

**Regarding: DYE-M, Cape Dyer DEW Line Site**

AECOM Canada Ltd. is providing the attached annual report form as per Section B.1 of the above-noted water use license. The report is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

In addition to the annual report form, we are providing a summary of the work completed to date at the site. The following is a summary of the work completed and of the samples collected as part of the wastewater monitoring and sewage effluent monitoring:

**Work Completed**

The contractor for the DYE-M site left at the end of 2009, and notified DCC they would not be returning to the site. As a result, a new tender package and a new contractor would be required for the completion of the work. The 2010 season and the early part of the 2011 season, the work completed at the DYE-M site was comprised of care and maintenance work. The contract for the remaining clean up work was awarded in July 2011, and the successful contractor mobilized to the site in late July. The following is a summary of the work items completed during the 2011 summer construction season:

- 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, 2011, at which time it was tested

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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 which are scheduled for excavation; appropriate disposal of the excavation materials in on-site landfills or approved containers for off-site disposal; excavation of remaining contaminated soil areas; and completion of demolition activities.

Final closure of the landfill facilities and sewage lagoon, and demobilization of the camp, construction equipment and the PCB material currently in temporary storage will occur in 2013.

**Community Consultations:** The results of the community meetings held by DCC were submitted with the Project Description. The contractor typically holds a project start up meeting prior to each season; however, a copy of the presentation has not been provided.

**Spill Incidences:** See attached spill reports.

**Monitoring Results:** See attached monitoring reports.

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