

March 31, 2010

Ryan Barry  
Director of Technical Services  
Nunavut Impact Review Board  
P.O. Box 1360  
Cambridge Bay, NU X0B 0C0

Dear Ryan:

**Project No: NIRB No.: 04DN001**

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

AECOM Canada Ltd. is providing the following information as per the requirements listed for the annual report. The information is being provided on behalf of Defence Construction Canada and the Department of National Defence.

***a.) Summary of activities undertaken for the year, including but not limited to the amount of contaminated soil removed from the site.***

**Lower Site Non-Hazardous Waste Landfill:** Construction of the berms for the expansion were completed.

**Lower Site Tier II Disposal Facility:** Completed construction of the second cell. The first cell was closed at the end of the season, including placement of the geomembrane and final shaping.

**Existing Landfill Remediation:** Lower Camp Landfills East and West; Upper Site Landfills East and West; Pallet Line Landfill; Beach Landfill North; DEW Drop Landfill – excavated.

**Demolition:** Removal of power and communications cables was completed. No other demolition occurred in 2009.

**Debris Removal:** Completed.

**Contaminated Soil Excavation:** On-going.

Currently, no contaminated soil has been removed from the site.

***b.) Work plan for the following year.***

The work at DYE-M is being suspended for one year as the work is being retendered and a new contractor will be mobilizing to the site. Care and maintenance work, including snow removal, remaining equipment maintenance and dewatering of the facilities is going to be completed by the members of the Canadian Military based out of Gagetown, NB. It is expected the clean up work will resume in 2011.

***c.) Update on the extent of contamination on-site and supporting documentation.***

An exhaustive site investigation was completed in 1997, 1998 and 2000 to determine all areas of contamination prior to the preparation of the specifications and drawings.

***d.) Wildlife encounters and actions/mitigation taken.***

Several polar bears were noted throughout the season; however, no mitigative actions were required.

***e.) Summary of local hires and initiatives.***

Approximately 41% of the staff at DYE-M were local hires.

***f.) Summary of community consultations undertaken and results (if any).***

The results of the community meetings held by DCC were submitted with the Project Description submission. The contractor typically holds a project start up meeting each year prior to the start of construction.

***g.) Summary of site visits by inspectors with results and follow-up actions.***

A Water Use Licence inspection was completed by Mr. Andrew Keim of Indian and Northern Affairs - Water Resources on August 22, 2009. Several minor issues were identified with respect to the garbage incinerator, water use meter and the sewage lagoon. Details can be found in the inspection report, which is attached for reference.

***h.) Summary of site visits with community members.***

N/A.

***i.) Site photos and updated maps.***

See attached.

***j.) Number of barges utilized.***

There were three barge trips into the site: one for demobilization of some equipment in August; one for fuel resupply in August and one for demobilization of more equipment in October.

***k.) Issues related to monitoring, including updates to the plan.***

To date, there have been no issues or updates to the monitoring plan.

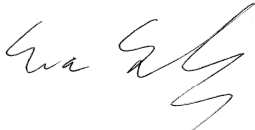
***l.) Revisions to the abandonment and restoration plan.***

The entire project is an abandonment and restoration plan. There are currently no updates to the plan.

***m.) Summary of how it has complied with all project Terms and Conditions and how the terms and conditions are achieving their purpose.***

The Terms and Conditions supplied by NIRB are consistent with the requirements of the Project Description and Screening Report submitted by DCC, which were based on the specifications and drawings. The specifications and drawings are part of the contract package that the contractor must adhere to, and therefore, contractor compliance with the contract documents ensures compliance with the NIRB Terms and Conditions. DCC has a Contract Manager on-site for the duration of the construction season to ensure compliance with the contract.

Sincerely,  
**AECOM Canada Ltd.**

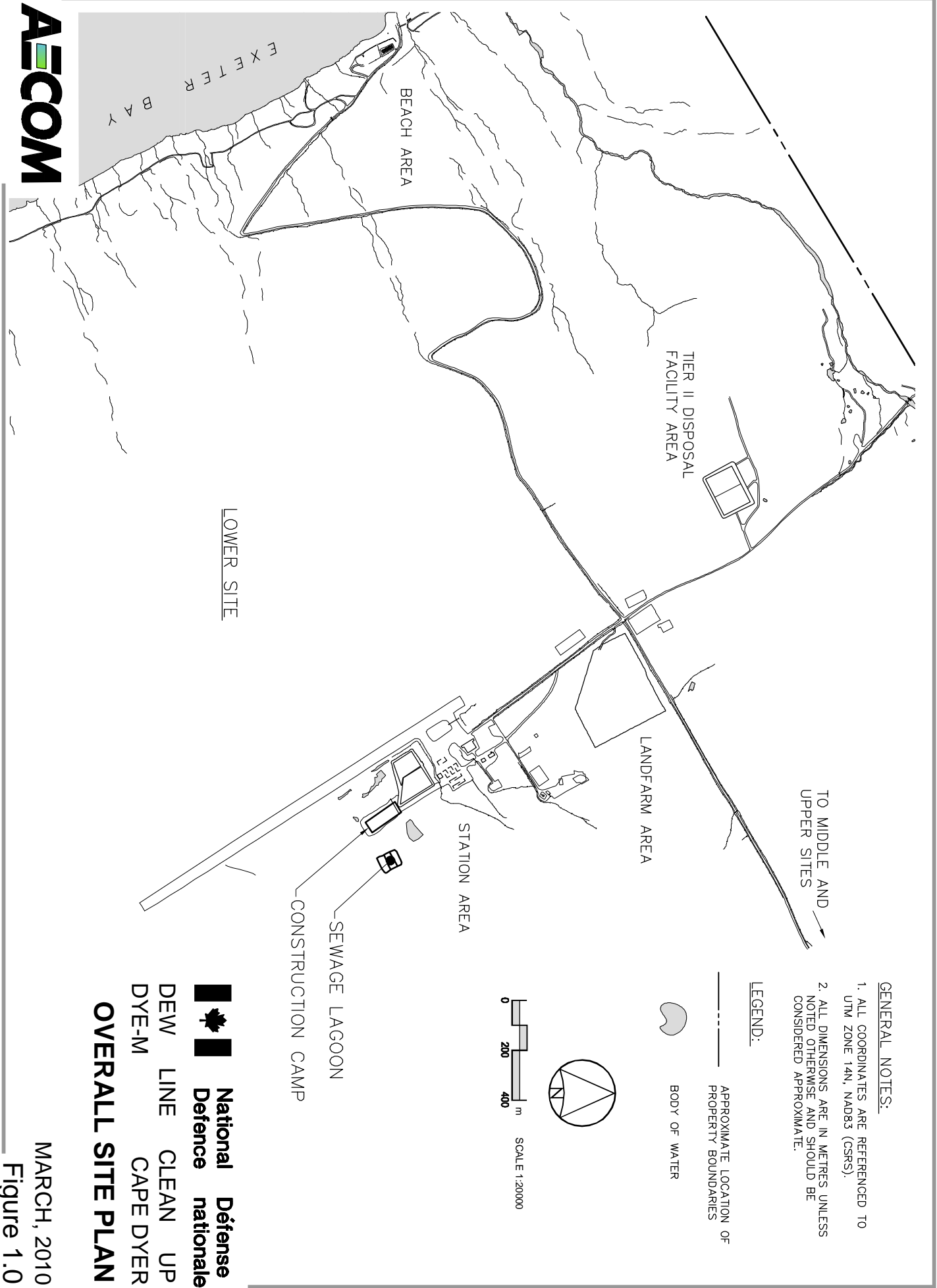


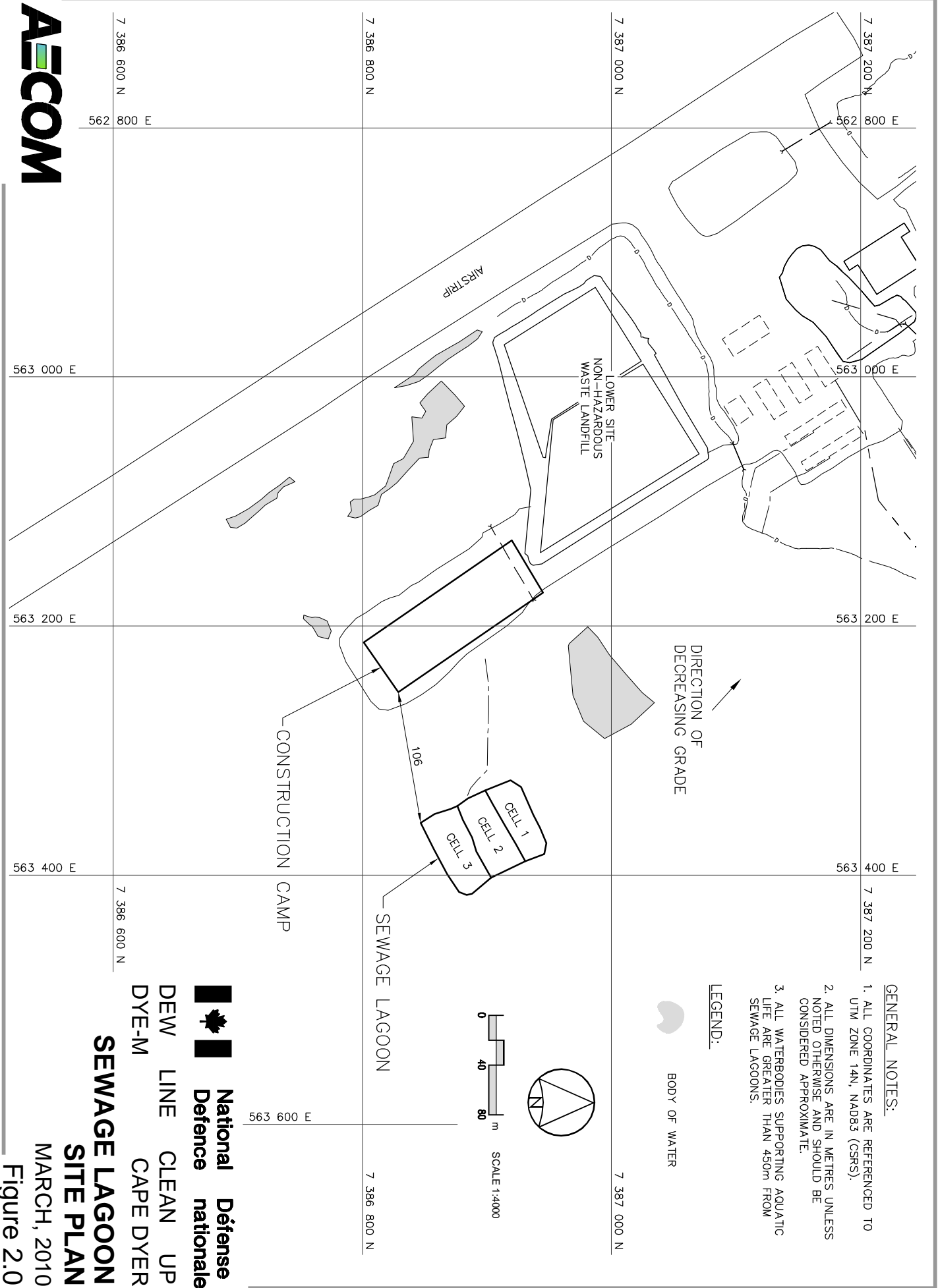
Eva Schulz, P.Ag.  
Eva.Schulz@aecom.com

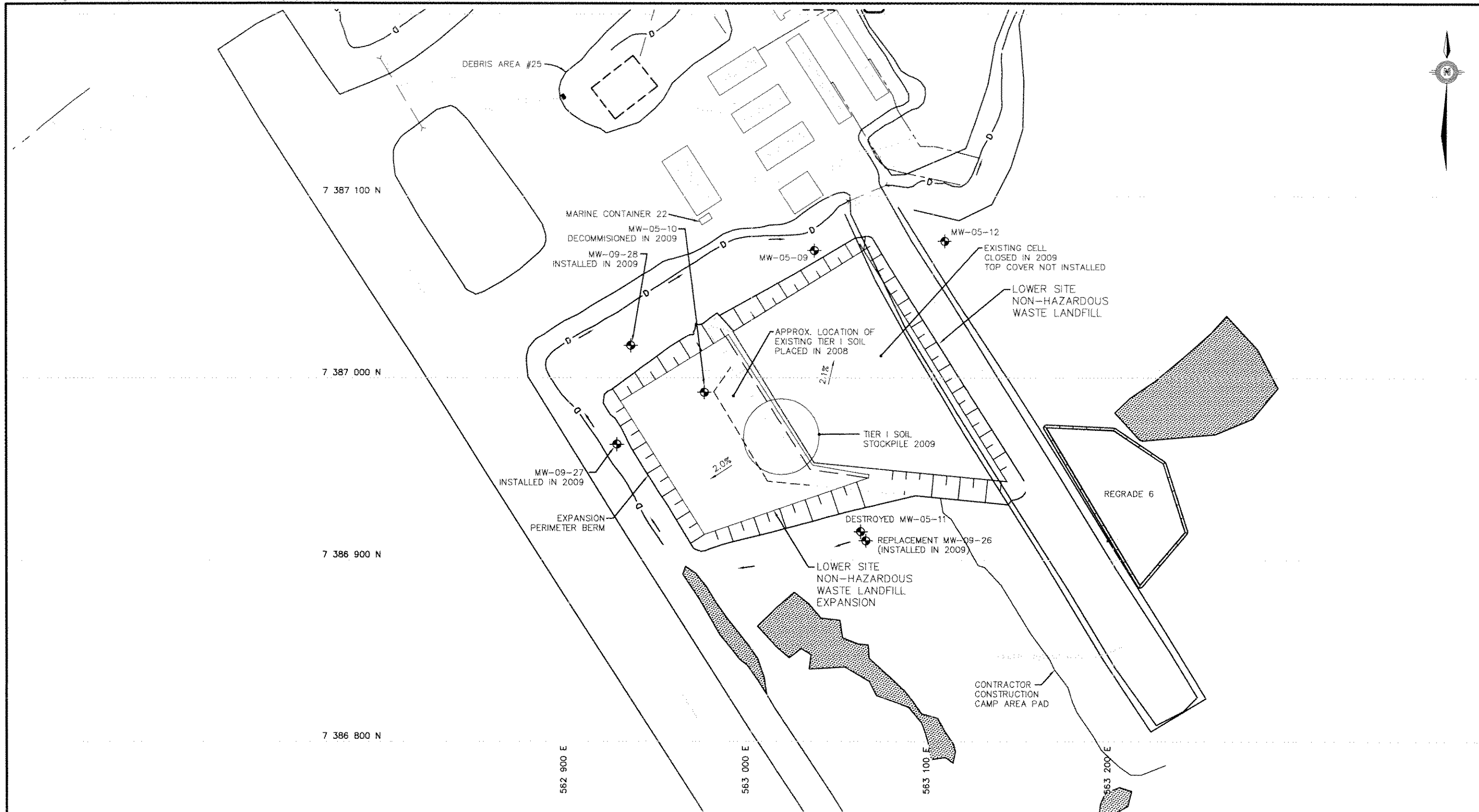
EMS  
Encl. Updated Site Plans; Selected Site Photos; Inspection Report  
cc: Douglas Craig, DCC

# Attachments

Updated Site Figures







BASE DRAWING PROVIDED BY UMA, DYE-M CAPE DYER TENDER DRAWINGS, DATED DECEMBER 2003

LEGEND:  
 - MONITORING WELL LOCATION

0 100  
 Scale: 1: 2 000 (metres)

CLIENT

AECOM

**DYE-M DEW Line Clean Up Project**  
**Cape Dyer, Nunavut**

**Lower Site Non-Hazardous Waste Landfill**  
**Tier I Soils Placement Area**  
**Expansion limits**

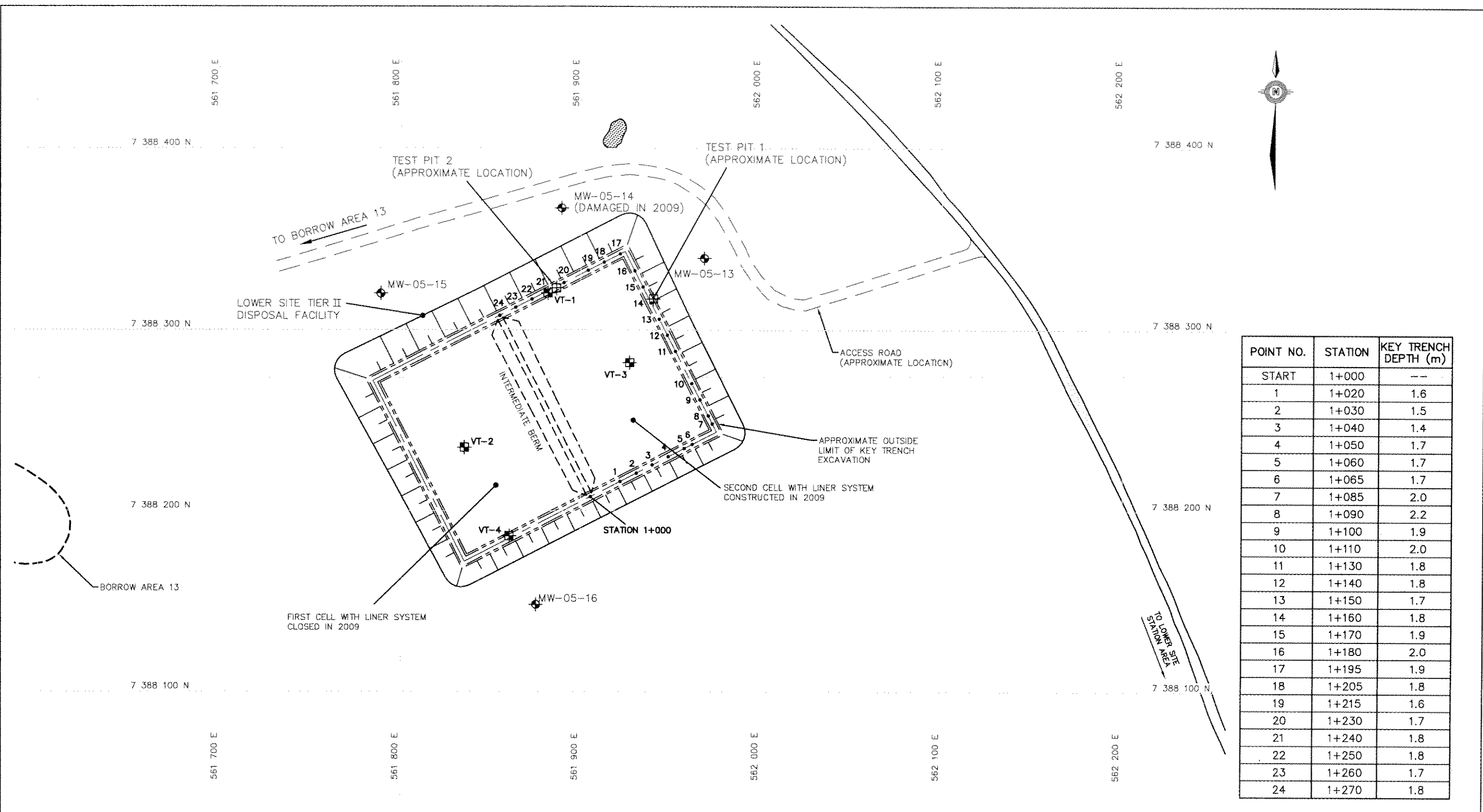
EBA Engineering  
 Consultants Ltd.



|              |              |     |     |
|--------------|--------------|-----|-----|
| PROJECT NO.  | DWN          | CHD | REV |
| 10995027.009 | DBD          | RK  | 0   |
| OFFICE       | DATE         |     |     |
| EBA          | October 2009 |     |     |

Figure 11

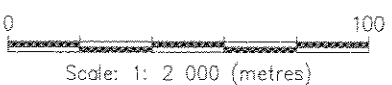
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| POINT NO. | STATION | KEY TRENCH DEPTH (m) |
|-----------|---------|----------------------|
| START     | 1+000   | --                   |
| 1         | 1+020   | 1.6                  |
| 2         | 1+030   | 1.5                  |
| 3         | 1+040   | 1.4                  |
| 4         | 1+050   | 1.7                  |
| 5         | 1+060   | 1.7                  |
| 6         | 1+065   | 1.7                  |
| 7         | 1+085   | 2.0                  |
| 8         | 1+090   | 2.2                  |
| 9         | 1+100   | 1.9                  |
| 10        | 1+110   | 2.0                  |
| 11        | 1+130   | 1.8                  |
| 12        | 1+140   | 1.8                  |
| 13        | 1+150   | 1.7                  |
| 14        | 1+160   | 1.8                  |
| 15        | 1+170   | 1.9                  |
| 16        | 1+180   | 2.0                  |
| 17        | 1+195   | 1.9                  |
| 18        | 1+205   | 1.8                  |
| 19        | 1+215   | 1.6                  |
| 20        | 1+230   | 1.7                  |
| 21        | 1+240   | 1.8                  |
| 22        | 1+250   | 1.8                  |
| 23        | 1+260   | 1.7                  |
| 24        | 1+270   | 1.8                  |

BASE DRAWING PROVIDED BY UMA, DYE-M CAPE DYER TENDER DRAWINGS, DATED DECEMBER 2003

- LEGEND:
- MONITORING WELL LOCATION
  - PROPOSED GROUND TEMPERATURE CABLE LOCATION
  - TEST PIT LOCATION
  - KEY TRENCH DEPTH



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EBA Engineering Consultants Ltd.



DYE-M DEW Line Clean-up Project  
Cape Dyer, Nunavut

Lower Site Tier II DF  
Key Trench Plan and Proposed  
Ground Temperature Cable Location

PROJECT NO / FILE NO  
10995027.009

DATE  
October, 2009

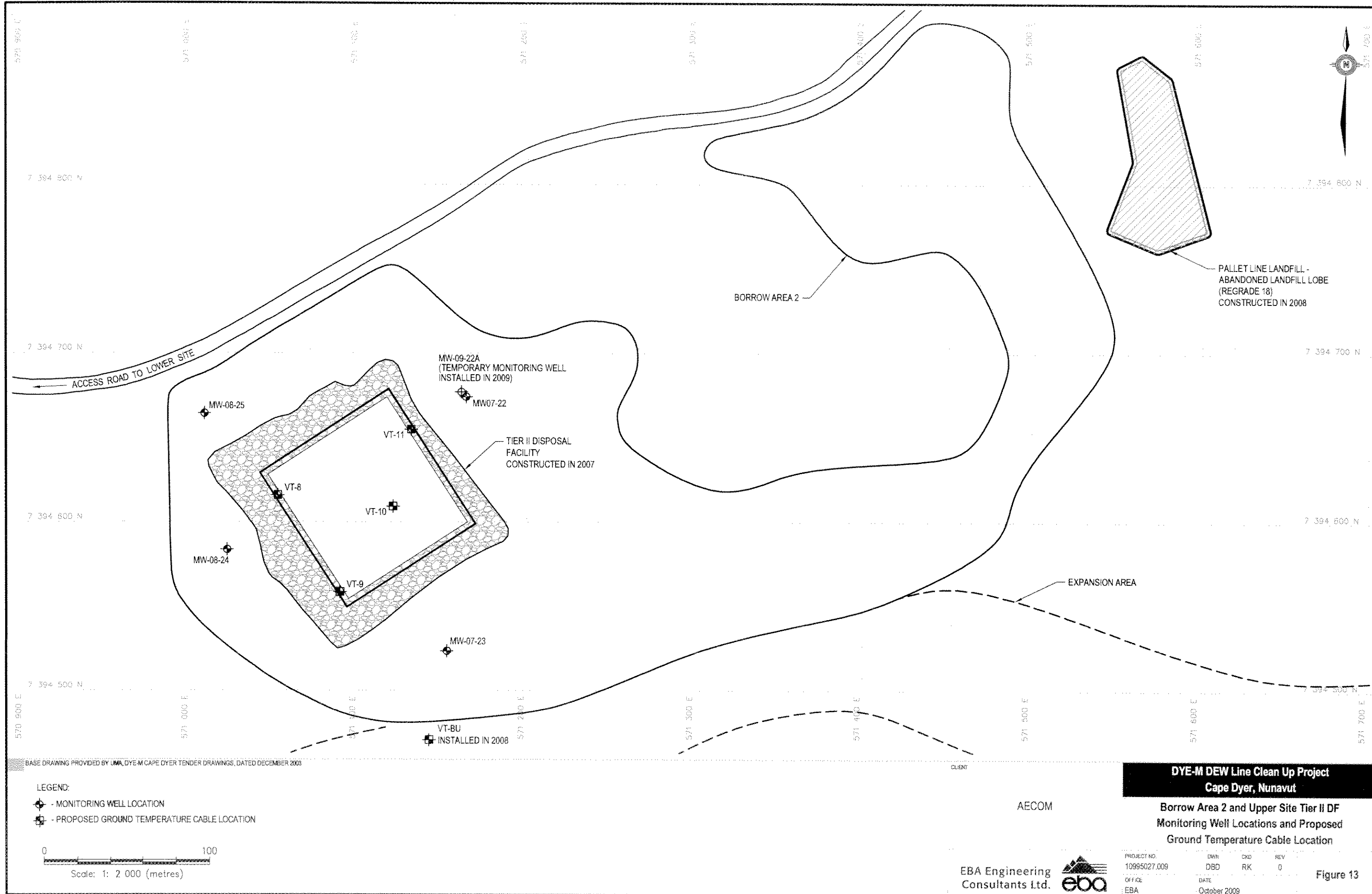
DBD

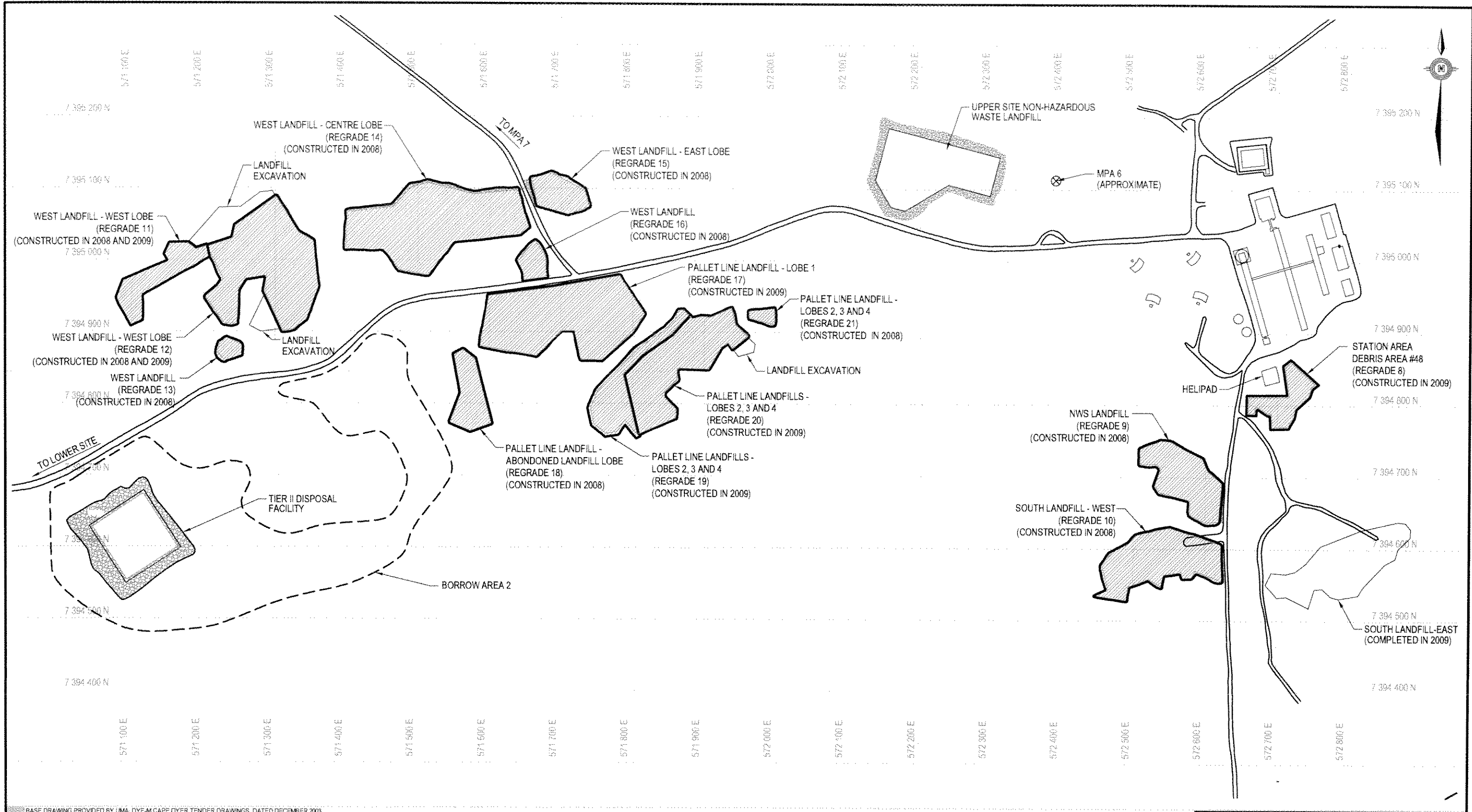
RK

0

FIGURE 12







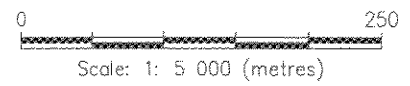
BASE DRAWING PROVIDED BY UMA, DYE-M CAPE DYER TENDER DRAWINGS, DATED DECEMBER 2003

CLIENT

AECOM

**DYE-M DEW Line Clean Up Project  
Cape Dyer, Nunavut**

**Upper Site Regrades**



EBA Engineering  
Consultants Ltd.

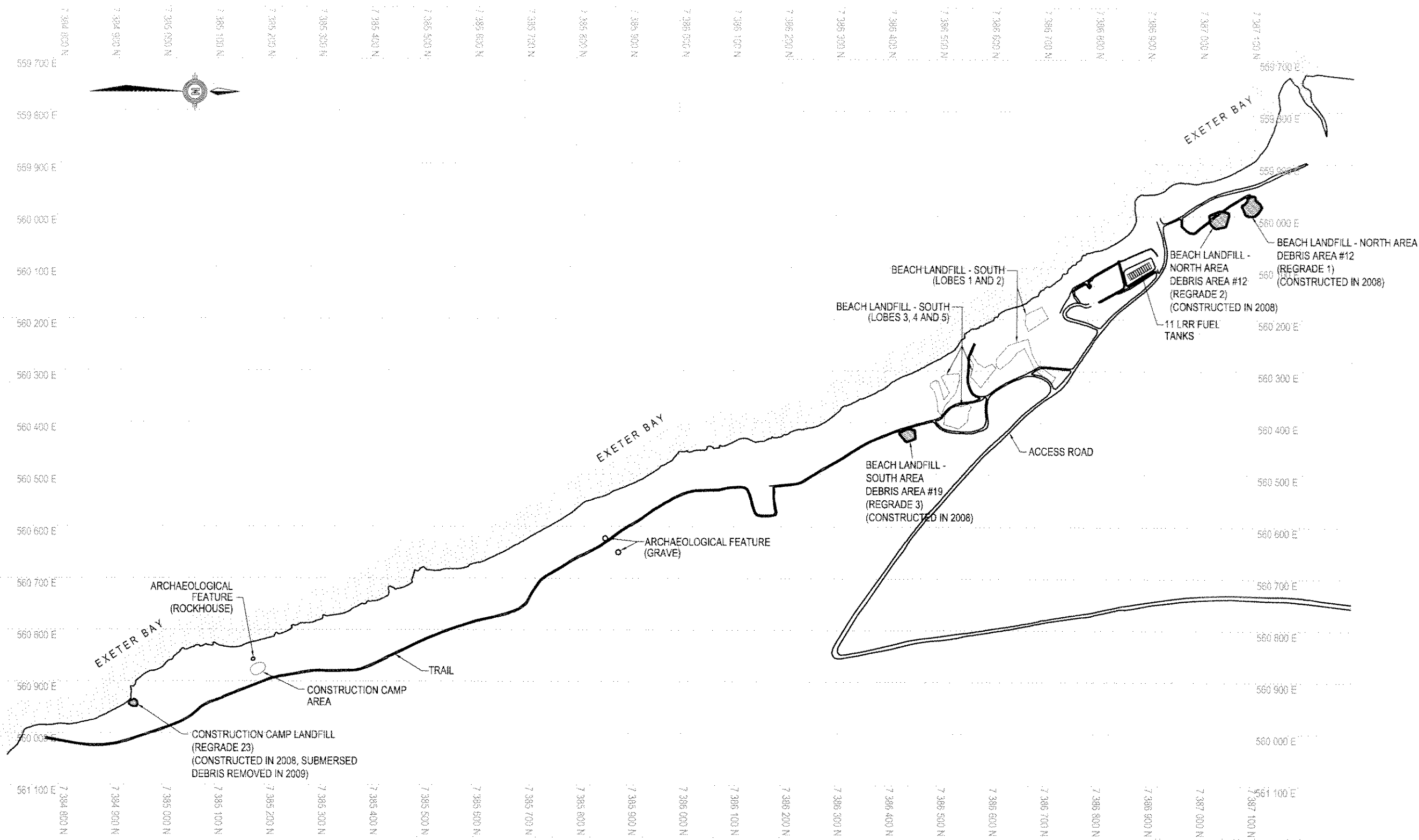


PROJECT NO  
10995027.009  
OFFICE  
EBA-EDM

DWN  
DBD  
DATE  
October 2009

OKD  
RK  
REV  
0

Figure 14



BASE DRAWING PROVIDED BY UMA, DYE-M CAPE DYER TENDER DRAWINGS, DATED DECEMBER 2003

CLIENT

**DYE-M DEW Line Clean Up Project**  
Cape Dyer, Nunavut

AECOM

Beach Area Regrades

0 250  
Scale: 1: 7 500 (metres)

EBA Engineering  
Consultants Ltd.



PROJECT NO  
10995027.009  
OFFICE  
EBA

DWN  
DBD  
DATE  
October 2009

CKD  
RK  
REV  
0

Figure 15

# Attachments

Selected Site Photos



**Photograph 1 ↑**  
Upper Site Non-Hazardous Waste Landfill



**Photograph 2 ↑**  
Upper Site Tier II Facility



**Photograph 3 ↑**  
Lower Site Non-Hazardous Waste Landfill



**Photograph 4 ↑**  
Lower Site Tier II Facility

# Attachments

Inspection Report

WATER USE INSPECTION REPORT

|                                       |  |
|---------------------------------------|--|
| Date: August 22, 2009                 | Licensee Rep. (Name/Title): Douglas Craig and Marc Fortier |
| Licensee: Defence Construction Canada | Licence No: 1BR-DYE0914                                    |

WATER SUPPLY

|  |                      |                                       |                     |
|--|----------------------|---------------------------------------|---------------------|
| Source(s): Water Supply Lake   |                      | Quantity used: Records to be reviewed |                     |
| Owner:/Operator: Defence Const. Canada   |                      | Water usage is estimate only          |                     |
| Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected |                      |                                       |                     |
| Intake Facilities: A   | Storage Structure: A | Treatment Systems: A                  | Chemical Storage: A |
| Flow Meas. Device: U   | Conveyance Lines: A  | Pumping Stations: A                   | Screen : A          |

Comments: Defence Construction Canada produced water usage records during the period of Inspection that were estimates only. Installation of a water meter to record accurately water usage has not been undertaken by the License. A water meter is to be installed by the period of the next inspection.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Primary Two or three cell lagoon.

|                        |  |              |
|------------------------|--|--------------|
| Natural Water Body: No | Continuous Discharge (land or water): None |              |
| Seasonal Discharge: No | Wetlands Treatment: None                   | Trench: None |

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

|                            |                                  |              |
|----------------------------|----------------------------------|--------------|
| Discharge Quality: U       | Decant Structure: NA             | Erosion: NA  |
| Discharge Meas. Device: NI | Dyke Inspection: NI              | Seepages: NA |
| Dams, Dykes: NI            | Freeboard: NA                    | Spills: NI   |
| Construction: NI           | O&M Plan: NI                     | A&R Plan: NI |
| Discharge: seasonal        | Effluent Discharge Rate: Unknown |              |

Comments: Effluent was noted outside the lagoon. The Licensee is required to take such measures as to prevent leakage or seepages from the current lagoon system.

Solid Waste: Non-hazardous land fill.

Owner/Operator: Defence Construction Canada

|             |                     |                                |
|-------------|---------------------|--------------------------------|
| Landfill: A | Burn & Landfill: NA | Other: Hazardous Mat. Area : A |
|-------------|---------------------|--------------------------------|

Comments: An inspection of the Incinerator was conducted during the Inspection. The unit was found to be in a poor state of repair. The front door does not seal the unit and Black smoke was noted exiting the stack during the Inspection (incomplete combustion). The unit is not serviceable. The Licensee is required have a proper incinerator on site by the period of the next inspection.

FUEL STORAGE:.

Waste Oil Storage: On site in designated location Owner/Operator: Defence Const. Canada

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

|                               |   |                              |
|-------------------------------|---|------------------------------|
| <b>Berms &amp; Liners: NI</b> | <b>Water within Berms: NI</b>                 | <b>Evidence of Leaks: NI</b> |
| <b>Drainage Pipes: NI</b>     | <b>Pump Station &amp; Catchments Berm: Ni</b> |                              |
| <b>Pipeline Condition: NI</b> | <b>Condition of Tanks: Metal tanks: NI</b>    |                              |

SURVEILLANCE NETWORK PROGRAM (SNP)

|   |           |  |            |
|---|-----------|--|------------|
| Samples Collected                                     |           | Owner /Operator: No sampling results noted |            |
| 1   |           | INAC: Potable source                       |            |
| Signs Posted  | SNP: none |  | Warning: A |
| Records & Reporting: Records were submitted for 2008. |           |  |            |
| Geotechnical Inspection: N/A                          |           |  |            |

Non-Compliance of Act or Licence: Defence Construction Canada has worked very hard to come into overall compliance with the issued License. Reoccurring issues with the Incineration of garbage, the Lagoon system and installation of simple water meters are hindering their overall excellent efforts. It is highly recommended that the licensee address these areas of deficiency for the period of the next inspection.