



# Shell Canada Energy

## Camp Farewell

### *2014 Lagoon Remediation*



April 22, 2014

Shell Canada Energy  
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Calgary, AB  
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**Mr. Randall Warren**  
**Manager; DAR and Drilling Waste**

Dear Mr. Warren:

**Camp Farewell**  
**Lagoon Remediation**

IEG Consultants Ltd. is pleased to submit the 2014 Camp Farewell Lagoon Remediation Report to Shell Canada Energy in accordance with the requirements of the current water licence N7L1-1834.

Please contact Nicole Wills (403-730-6809) with any questions or comments.

Yours truly,  
**IEG CONSULTANTS LTD.**

Nicole Wills, P.Ag.  
Project Manager

NW

# Shell Canada Energy

## Camp Farewell

### *2014 Lagoon Remediation*

## EXECUTIVE SUMMARY

Shell Canada Energy (Shell) retained IEG Consultants Ltd (IEG) to conduct a Remediation Program at the Camp Farewell Lagoon located at 69°12'30.0" N and longitude 135°06'04.4" W in the Mackenzie Delta, approximately 125 km northwest of Inuvik and approximately 135 km west of Tuktoyaktuk, Northwest Territories.

The Site is leased and under the stewardship of Shell since the early 1970's. The Site is currently inactive. It has been utilized as a staging area for seismic and drilling operations. The camp facilities have been used, and the Site has been used for storage of equipment and fuel. Currently one fuel storage tank (93,000 L) remains in use and exists on-site adjacent to the camp building.

Recent Site activities have been limited to those involved in the Temporary Closure and include dismantling, removal of stockpiled materials and consumables, remediation and assessment activities, remediation of the lagoon, and required environmental monitoring work.

The field portion of the Remediation Program was conducted between July 15 and August 27, 2013.

The lagoon excavation was located on the west side of the camp building with the Mackenzie River bordering the south and east sides. The dimensions of the excavation were approximately 52 m by 34 m. The maximum depth of the excavation was approximately 7.5 m. Prior to remedial activities, the lagoon had a depth of approximately 2.5 m. Domestic waste debris was observed in the excavated material, including metal cans, fragments, and plastic debris.

A total of 96 soil samples were taken from the lagoon excavation: 25 interim soil samples and 71 confirmatory soil samples.

PHC affected soil resulting from previous operations was effectively removed from the lagoon area during the 2013 Remediation Program based on laboratory analytical data. Approximately 1900 m<sup>3</sup> of excavated soil was barged to Hay River and hauled to and disposed at the Tervita Rainbow Lake Landfill in Rainbow Lake, AB. The last load of the barged impacted soil arrived at the landfill on October 16, 2013. Approximately 100 m<sup>3</sup> remains on-site in a secured metal shed, to be barged to the landfill during 2014 remedial activities.

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## 1 INTRODUCTION

Shell Canada Energy (Shell) retained IEG Consultants Ltd. (IEG) to conduct a Remediation Program at the Camp Farewell Lagoon located at latitude 69°12'30.0" N and longitude 135°06'04.4" W in the Mackenzie Delta, approximately 125 km northwest of Inuvik and approximately 135 km west of Tuktoyaktuk, Northwest Territories (Figure 1). This report details the activities and findings of the Remediation Program.

The field portion of the Remediation Program was conducted between July 15 and August 27, 2013.



## 2 SCOPE OF WORK

WorleyParsons Komex conducted Site assessments at Camp Farewell (Site) in 2001 and 2006, which identified impacts in the vicinity of the lagoon. The objective of the IEG Remediation Program was to excavate and remove impacted material from the lagoon. A Site plan is shown on Figure 2 and the extents of the lagoon excavation and location of sample points are illustrated on Figures 3 and 4.

This report provides the following information:

- description of the regional setting of the Site;
- review of previous environmental investigations conducted at the Site;
- review of the methodology used to conduct the Remediation Program; and,
- summary and discussion of findings of the Remediation Program.

## 3 REGIONAL SETTING

### 3.1 Site Location

The Site is located approximately 125 km northwest of Inuvik, Northwest Territories (NT) and approximately 135 km west of Tuktoyaktuk, NT. It lies within the Inuvialuit Settlement Region (ISR) on the northeast bank of Middle Channel in the Kendall Island Bird Sanctuary (KIBS).

The surrounding area is tundra, composed of peat and low lying shrubs. The Site consists of an approximately 6.5 hectare (ha) gravel pad, a gravel airstrip, and two access roads from the Middle Channel of the Mackenzie River to the pad. The majority of the gravel pad is approximately 0.5 m to 0.7 m thick, and was constructed on a foam and fibre geomembrane which overlays native tundra.

Existing infrastructure at Camp Farewell includes a two storey 32 man camp, a large mechanical garage, two storage sheds, fuel storage for the camp, and a decommissioned bermed and lined petroleum tank farm.

For a detailed Site description, refer to the report prepared by IEG for Shell entitled, “*Shell Camp Farewell Project Description, Decommissioning the Lagoon at Camp Farewell*”, dated May 2012.

### 3.2 Climate

Camp Farewell is classified as having a high subarctic ecoclimate, with very cold winters and cool summers. Mean daily temperatures range from  $-27.6^{\circ}\text{C}$  in January to  $14.2^{\circ}\text{C}$  in July.

Winters in this area are long and there is a period of approximately two months when the sun does not rise above the horizon. During this period, very cold conditions prevail and may last for several weeks at a time. When temperatures reach such lows, the ability of the air to contain moisture is limited and very little precipitation falls. The mean annual precipitation is 249 mm (Environment Canada, 2002).

### 3.3 Physiography

Camp Farewell is within the Tuktoyaktuk Coastal Plain Ecozone of the Southern Arctic Ecozone. This ecozone covers the outer Mackenzie River Delta and Tuktoyaktuk Peninsula bordering the Beaufort Sea (ESWG, 1996).

There are two main landscape types within the Tuktoyaktuk Coastal Plain Ecozone. One is composed of distinctive delta landforms at the mouth of the Mackenzie River. These include wetlands, active alluvial channels, and estuarine deposits. Characteristic wetlands, which cover 25 to 50% of the area, are lowland polygon fens, both the low- and high-centre varieties. The second consists of the broadly rolling uplands. Discontinuous moraine deposits mantle much of the area, except near the coast where fine-textured marine sediments cover the surface. Occurring less frequently are outwash aprons of crudely-sorted sand and gravel, and raised beach ridges along the shores of pre-glacial lakes. The resulting undulating terrain is studded with innumerable lakes and ponds (ESWG, 1996).

The region is underlain by continuous permafrost with high ice content in the form of ice wedges and pingos.

### 3.4 Soils and Permafrost

Organic and Turbic Cryosols developed on level to rolling organic, morainal, alluvial, fluvio-glacial, and marine deposits are the dominant soils of the Tuktoyaktuk Coastal Plain Ecoregion (ESWG, 1996). Typically these soils are said to be underlain by a continuous layer of permafrost (> 90% permafrost), though more recent data describe the outer Mackenzie River Delta and portions of Richards Island as being discontinuous permafrost with about 35-65% permafrost beneath the area (Heginbottom, 1998).

In the Mackenzie River Delta, permafrost thickness is generally less than 90 m thick, and contains deep unfrozen zones (taliks), which in some cases extend to the base of the permafrost. The depth of the active layer generally ranges from 30 to 100 cm but is largely a function of ground surface insulation, vegetation cover, level of ground disturbance, and winter snow cover.

### 3.5 Vegetation

Permafrost detracts from soil productivity by chilling the soil and creating waterlogged conditions in the thawed active layer near the soil surface. Plant communities found in the vicinity of the project area are relatively simple and are dominated by a few species that are well adapted to poor soil (low nutrient) conditions and the harsh climate.

Vegetation grows on a veneer of unfrozen organic or granular substrate overlying the permafrost boundary. Vegetation in the area consists of a complex pattern of delta shrub communities on active river terraces, sedge and cotton grass communities in wet, less active areas and patterned ground composed of low centred polygons, which typically develop in poorly drained conditions. Standing water and moving water are prominent features of the landscape. Camp Farewell is not subject to the seasonal flooding experienced in many parts of the Mackenzie River Delta and is surrounded by stable tundra vegetation and patches of alder and willow (IEG, 2012a).

### 3.6 Hydrology

The Mackenzie River Delta is a dynamic complex of lakes, islands, braided channels, and oxbows. The hydrological regime is the primary factor controlling vegetation and wildlife habitat in the area. It is an estuarine delta with poorly developed levees, formed largely from sediments transported by the Mackenzie River over the last 13,000 years. The southwest sector also receives sediment from the Peel River and Rat River. The major channels appear largely unchanged in the last century. The present delta is flat and dotted with numerous lakes, ponds, and river channels, but also contains land varying from stable forested areas to tidal flats (MRBC, 1981).

Ice covers the waters of the delta for approximately eight months of the year and can be up to 2.5 m thick in the main stem of the Mackenzie River. Ice break-up usually begins in late April-early May, and ice movement occurs before peak spring water levels. Water levels fall during late summer and into fall. The basic hydrology of the Mackenzie River Delta is a complex interaction of aggrading and degrading forces, with spring break-up being the major hydrological event each year (MRBC, 1981).

## 4 SITE HISTORY

Camp Farewell was constructed in the winter of 1970 and summer of 1971, and was operated as a staging and storage site in support of the Shell Mackenzie Delta Drilling Program. The Site consisted of a self-contained camp, providing electrical and heating services and facilities for accommodation, meals, fuel storage, equipment handling, water withdrawal and wastewater storage. The camp operated as a 60-70 person camp full time until 1978, after which it was in operation periodically until 1994. During full operation in the 1970's, infrastructure on-site included: a single story accommodations building, two 5,000 barrel (bbl) tanks, one 3,000 bbl tank, and three 2,000 bbl tanks. In the mid 1980's, the accommodations building was replaced with a smaller building, designed for approximately 32 people, that remains on-site. Storage information included in previous WorleyParsons reports indicates the following has been stored on-site: up to 6.8 million litres of fuel (including gasoline, diesel and aviation fuel), building materials, drilling mats, piping, and drilling additives (including barite, Aqua Seal™, and caustic soda).

The Site was constructed on permafrost, and based on its history, the preservation of this layer was considered. During construction, a layer of polyurethane (either 50 mm foam or pads) was installed, including 450 mm of compacted gravel, to act as a thermal barrier and prevent contamination of underlying soils and groundwater. In 2006, WorleyParsons conducted test pitting on-site and encountered remnants of liner between approximately 0.38 and 0.62 metres below ground surface (m bgs) in some, but not all of the test pits. This suggests that while liner was used, the gravel pad extended beyond the liner. Sand and gravel comprised the pad fill material and extended to between approximately 0.5 and 1 m bgs. Clay mineral additive (bentonite) appears to have been mixed with gravel as well to aid in compaction and adhesion of gravel throughout the Site (WorleyParsons, 2011).

### 4.1.1 Spill History

Approximately 80,000 litres of water impacted with diesel fuel was released from the tank farm in 1981, according to a search of the Government of Northwest Territories (GNWT) Hazardous Spills Database. Canadian Marine Drilling (CanMar, a subsidiary of Dome Petroleum) was occupying Camp Farewell and responsible for the two 5,000 bbl tanks located in the tank farm. Investigation suggests the spill was a result of vandalism/theft that occurred in the winter of 1980-81, resulting in the spring release, which was reported to authorities on May 24, 1981 (WorleyParsons, 2011).

Released fluids overtopped the berm and flowed with Site topography to the south-west, over the steep banks of the Site and onto the frozen Mackenzie River. Free fuel within the berm and camp area was collected and pumped into holding tanks, while residual fuel was collected using sorbent pads. Fuel that spilled onto the frozen river was also collected using the sorbent pads. These pads were incinerated in a Sacke Portable Burner over the 4 to 6 week clean-up period (WorleyParsons, 2011).

Additional detail regarding the actual spill and clean-up efforts is documented in a Komex 2001 report titled *"Phase I and Phase II Environmental Site Assessment of the Shell Farewell Stockpile and Campsite"*.

#### **4.1.2 Historical Site Operations**

The Site has been utilized by many different corporations for different activities over the years; however, it has been maintained under the stewardship of Shell. The Site is currently inactive. It has been utilized as a staging area for seismic and drilling operations. The camp facilities have formerly been occupied, and the Site has been used for storage of equipment and fuel as well. Currently one fuel storage tank (93,000 L) remains in use on-site adjacent to the camp building.

Recent activities at the Site have been limited to those involved in the closure and include dismantling, removal of stockpiled materials and consumables, remediation and assessment activities, remediation of the lagoon, and required environmental monitoring work.

## 5 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

### 5.1.1 2000

In 2000, Golder and Associates (Golder) conducted a baseline environmental assessment of the Site and Geco-Prakla, a division of Schlumberger Canada, conducted a baseline assessment prior to sub-leasing a portion of the Site from shell. The area of the sublease included the main camp accommodations, associated accommodation trailers, the lagoon area and the area south of the storage crates and racks (including Shed #1), and extended to the east of the lease (Worley Parsons, 2011).

### 5.1.2 2001

Phase I and Phase II Environmental Site Assessments (ESAs) were conducted by Komex in 2001. Analyzed parameters reported to exceed applicable guidelines included: total petroleum hydrocarbons (TPHs), polycyclic aromatic hydrocarbons (PAHs), and selected trace metals within (and down gradient of) the burn pit; xylenes and TPHs in the area of the tank farm and the area of the historical tank release; TPHs and barium concentrations from surface stained areas and throughout the gravel base pad; and electrical conductivity (EC) and pH on the base pad where mud additives were reportedly stored.

In addition, two background samples were collected from locations located to the northeast of the Site; one situated in native tundra (organic soil) and the second located on the gravel airstrip (mineral soil). Salinity parameters, including EC (180 to 360 uS/cm), pH (6.3 to 8.0) and sodium adsorption ratio (SAR) (0.9 to 1.1) were reported within the regulatory guidelines for residential/parkland and industrial land uses for both locations. Concentrations of metals parameters were reported below applicable guidelines (WorleyParsons Komex, 2006).

Following the ESAs conducted in 2001, Komex submitted an Interim Abandonment and Restoration Plan to the NWTWB (Komex, 2002).

### 5.1.3 2006

A more detailed Phase II ESA was conducted by WorleyParsons Komex in 2006. The purpose of the additional Phase II was to further delineate previously identified soil impacts and to identify potential groundwater impacts.

Two background soil and groundwater sample locations were established and tested to the northeast of the Site, in areas not likely to have been affected by historical operations. Background soil locations were advance to 0.4 m bgs, to the depth of permafrost. Findings for the background soil and groundwater locations indicated concentrations of hydrocarbons which were attributed to naturally occurring organic material. Salinity parameters EC, pH, and SAR were reported at 251 uS/cm, 6.7, and 0.6, respectively, within and/or below applicable guidelines (WorleyParsons Komex, 2006). Metals parameters were not analyzed.

Hydrocarbon impacts were identified in the vicinity of the burn pit, tank farm, above ground fuel storage tanks, and across the gravel pad including the perimeter. Salinity and barium impacts were identified on the gravel pad (WorleyParsons Komex, 2006).

#### **5.1.4 2008**

WorleyParsons submitted a second Interim Abandonment and Restoration Plan in 2008 following the 2006 Phase II. A summary of the 2006 results was included as well as specific Progressive Reclamation Plans to be conducted in 2009 and 2010 (WorleyParsons, 2008).

#### **5.1.5 2010**

WorleyParsons submitted an updated Interim Abandonment and Restoration Program Report that described the activities that were conducted in 2008 and 2009 (WorleyParsons, 2010).

IEG also summarized the 2008 and 2009 Site activities in the 2009 Camp Farewell Hydrocarbon Impacted Soil Remediation Report (February, 2010). The 2006 Phase II ESA results were summarized, and the remediation activities were described in detail, including the sampling schedule and results.

#### **5.1.6 2012**

IEG conducted required Site inspections and collected water samples from the lagoon. Site inspections indicated no sign of spills, leaks, and animal or human activity on the site. Laboratory analytical results for water samples reported values below applicable guidelines and lagoon water was subsequently discharged to the Mackenzie River in accordance with licence number N7L1-1762 (IEG 2012b, IEG 2013a, and IEG 2013b).



## 6 REMEDIATION PROGRAM LOGISTICS

### 6.1 Permitting and Licensing

IEG obtained permits and licenses for several on-site and off-site activities prior to field commencement of the Remediation Program. The following sections provide information on each permit or license. Copies of permits and licenses are provided in Appendix I.

#### 6.1.1 Environmental Impact Screening Committee

IEG prepared a Project Description (IEG, 2012a) for the remediation activities at the Site. The Project Description was sent to the Environmental Impact Screening Committee (EISC), the Aklavik Hunters and Trappers Committee (AHTC), the Inuvik Hunters and Trappers Committee (IHTC) and the Tuktoyaktuk Hunters and Trappers Committee (THTC) on May 31, 2013. Three agencies responded with comments and/or approval to proceed. Permission to proceed with the Remediation Program was obtained by the EISC.

#### 6.1.2 Water Use

Shell applied for a Type B Water License (N7L1-1834) through the Northwest Territories Water Board (NWTWB) on February 28, 2012. The application was to withdraw up to 150 m<sup>3</sup> per day from the McKenzie River to construct an ice road should remedial activities occur during winter months and to withdraw up to 50 m<sup>3</sup> for operation of the on-site camp. Water License N7L1-1834 was granted on July 18, 2012 for the withdrawal of 150 m<sup>3</sup> per day for industrial undertakings and associated uses. The permit expires July 18, 2017.

#### 6.1.3 Canadian Wildlife Service Migratory Birds Sanctuary Permit

A Canadian Wildlife Services (CWS) permit (Migratory Birds Sanctuary Permit) is renewed for the Site each year. The applicable permit during the Camp Farewell Remediation Program was issued on March 26, 2013 and expired on December 31, 2013.

### 6.2 Camp Mobilization/Demobilization

A barge camp was mobilized to the Site from Inuvik in early July 2013 via the Mackenzie River. Mobilization of the barge to Site took approximately 24 hours. The barge was anchored to bollards in the boat docking area at the Site (Figure 2). The barge comprises three levels, consisting of a kitchen and dining unit, a common lounge area, sleeping accommodations, shop space, office space, a heli-pad, and heavy machinery. A fuel spill kit, generators, and a wastewater tank were also contained on the barge. Wastewater from the barge was disposed of in Inuvik. The barge was operated and maintained by a barge master for the duration of Site activities. On approximately August 24, 2013 the barge was demobilized from the Site via the Mackenzie River.

## 7 REMEDIATION PROGRAM METHODOLOGIES

During the course of the remediation program at Camp Farewell, the coordinates of each soil sampling location were measured using a Trimble GPS. The equipment used provides real time measurement of position and elevation with a positional accuracy of less than 1 m (generally less than 0.5 m) and less than 2 m in elevation. The coordinates were recorded in UTM NAD 83 (zone 8N).

### 7.1 Lagoon Water Sampling and Discharge

In July 2013, approximately 1,800 m<sup>3</sup> of meltwater contained in the on-site lagoon was discharged to the Mackenzie River. The meltwater was pumped from the lagoon using two pumps over three days, and discharged via hoses extending from the lagoon into the Mackenzie River. On June 12, 2013, prior to discharge, the meltwater was sampled by IEG in compliance with the NWTWB Type B Water License (N7L1-1834). The meltwater was sampled again on July 10, 2013 during discharge by the contractor on-site. Parameters analyzed were specified in NWTWB Type B Water License N7L1-1834 and included oil and grease, biological oxygen demand, ammonia, phosphorous, pH, total suspended solids, fecal coliforms, and total residual chlorine.

### 7.2 Excavating and Confirmatory Sampling

A total of 129 soil samples were collected during the Remediation Program. Soil samples were collected during advancement of the lagoon excavation, from the base and walls of the excavation, during the advancement of test pits, and from soil stockpiles. The samples were collected in order to characterize soil conditions or to confirm remediation success. Soil sampling depth was based on observations made during excavation advancement and/or field screening results for organic vapour analysis (OVA). Collection and labelling of samples was based on an approximately 10 m by 5 m grid pattern. Figure 5 shows the wall profiles for samples collected based on the same 10 m by 5 m grid pattern.

Soil samples collected were placed directly into sterile plastic bags and glass containers equipped with Teflon-lined lids. Field screening involved measuring the organic vapor concentration in the headspace of sample bags using a RKI Eagle portable gas detector. Field screening results are provided in Table 1.

Standard chain-of-custody protocol was followed for collected samples. Soil samples were stored in sealed coolers with frozen ice packs prior to being submitted to Maxxam Analytics (Maxxam) in Edmonton, Alberta. Maxxam is accredited by the Canadian Associations for Environmental Analytical Laboratories for the analyses performed.

Soil analytical results are summarized in Tables 1 and 2 and confirmatory soil analytical results are summarized in Tables 3 and 4. Laboratory analytical reports are included in Appendix II. Values in the data summary tables that exceed applicable guidelines have been highlighted. Non-regulated soil parameters such as soluble chloride, sulphate, calcium, magnesium, and sodium have been included in Tables 2 and 4, as they are useful for assessing operations related impact on soils.

### 7.3 Backfilling

In areas of the lease suspected to have little or no impact, approximately 20 cm of surface soil was scraped and stockpiled in preparation for backfill. In addition, fifteen locations on-site (labelled as TP1-5, 17-19, 21-26, and TP-13-19), were sampled for potential sources of additional backfill (Figure 2). IEG collected composite samples from the stockpiles and test pit locations, which were submitted for laboratory analysis of salinity, trace metals, PHCs, and PAHs (Tables 1 and 2).

The east side of the excavation was lined with polyethylene liner prior to the backfilling and compaction of the excavation with a dozer and smooth-drum compactor.

### 7.4 Waste Disposal

Waste soil from the lagoon excavation was packed into soil bags or wooden crates provided by Tervita. Each soil bag and wooden crate contained approximately 1 m<sup>3</sup> of impacted soil. Soils bags and crates were packed carefully with the trackhoe bucket and placed in the staging area on-site located east of the shops.

On approximately August 25, 2013, barges were loaded with the soil bags and crates for transport to Hay River. From Hay River the soil bags and crates were transferred to trucks and further transported to Tervita Rainbow Lake Landfill (approximately 2,800 km from Camp Farewell). Approximately 1,900 m<sup>3</sup> of material was disposed in the landfill. Approximately 100 m<sup>3</sup> of impacted soil remains on-site, in soil bags and secured in a metal shed, to be shipped to the landfill during 2014 remedial activities.

Domestic waste and waste water generated at the barge camp was contained in garbage bins and a waste water holding tank and disposed at an approved facility by the barge operator.

### 7.5 Quality Assurance and Quality Control

Quality assurance and quality control measures were implemented while collecting, storing, shipping, and analyzing the samples collected during this investigation, including:

- donning new nitrile and/or latex gloves prior to the collection of each sample and/or subsequent to contact with soil while sampling;
- using both GPS and field measurements to record the sample locations;
- cleaning and decontaminating any sampling tools and/or equipment prior to the collection of each sample and/or subsequent to contact with soil while sampling;
- labelling samples with a unique identifier;
- storing samples in clean and appropriate laboratory supplied sample jars;
- storing samples in ice packed coolers where appropriate to maintain samples near the recommended 4°C temperature; and,
- shipping samples to an accredited laboratory for analyses following standard chain-of-custody protocol.

## 8 REMEDIATION GUIDELINES

The guidelines for organic and inorganic parameters in soil, sediment and water are provided by the Canadian Council of Ministers of the Environment (CCME), *Canadian Environmental Quality Guidelines* (CEQG), 1999 (with updates). The CCME CEQG provides guidelines for four primary land uses; “Agricultural”, “Residential/Parkland”, “Commercial”, and “Industrial”, and two soil types; “Fine” and “Coarse” grained soil, defined as having a median grain size of <75 µm or >75 µm, respectively.

Guidelines for salinity, trace metals, PHC, and PAH parameters in soil are provided by the CCME *Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil* (2003) as well as by the GNWT, *Environmental Guideline for Affected Site Remediation*, November 2003. The GNWT CSR defines the same land uses and soil textures as CCME CEQG. The GNWT CSR further identifies guidelines for surface soil (0 m to 1.5 m depth) and subsoil (>1.5 m), and Site-specific pathways that apply to soil, including “soil ingestion”, “nutrient cycling”, and “ecological soil contact”, among others.

The following information was used to determine the applicable assessment guidelines and exposure pathways for soil at the Site:

- the southern and western edge of the Site is adjacent to the Middle Channel of the Mackenzie River;
- the surface water bodies are capable of sustaining aquatic life;
- there are no domestic water wells on, or within a 1 km radius of the Site;
- soils at the Site consist of a very thin organic layer overlying a coarse-grained, sandy layer;
- the maximum depth of investigation was approximately 7.5 m bgs; and,
- current and likely future land uses for the Site and surrounding properties are “Residential/Parkland”, by GNWT Guidelines.

Based on the current land use definitions, the Parkland guidelines are the most applicable for the Site at this time.

Analytical Results for water discharged from the lagoon were compared to guidelines provided in NWTWB Water License N7L1-1834. For parameters with no specified guideline in the water license and in the absence of surface water quality guidelines for NWT, results were compared to Alberta Environment (AENV) Water Quality Guidelines for the Protection of Freshwater Aquatic Life (AENV, 1999).

### 8.1 Soil Quality

Based on the land use of the Site and the surrounding properties, benzene, toluene, ethylbenzene, xylenes (BTEX) and inorganic parameters (salinity and metals) in soil were compared to the coarse-textured soil guidelines found in the GNWT Environmental Guideline for Contaminated Site Remediation (November, 2003), where applicable. Barium, extractable barium, and true total barium results were compared to the AENV Soil Remediation Guidelines for Barite: Environmental Health and Human Health guidelines (AENV, 2009).

The analytical results for PHC fractions F1 (C<sub>6</sub>-C<sub>10</sub>), F2 (C<sub>10</sub>-C<sub>16</sub>), F3 (C<sub>16</sub>-C<sub>34</sub>) and F4 (C<sub>34</sub>-C<sub>50</sub>) were compared to the GNWT *Environmental Guideline for Contaminated Site Remediation* for coarse-textured subsoil (greater than 1.5 m). The limiting exposure pathway is “ecological soil contact”. The “protection of potable groundwater” pathway is excluded based on the depth of permafrost in the region.

## 8.2 Background Soil Conditions

In 2001, two background soil samples were collected from locations to the northeast of the Site; one situated in native tundra (organic soil) and the second located on the gravel airstrip (mineral soil). Salinity parameters, including EC (180 to 360 uS/cm), pH (6.3 to 8.0) and SAR (0.9 to 1.1), were reported within the regulatory guidelines for residential/parkland and industrial land uses for both locations. Concentrations of metals parameters were reported below applicable guidelines (WorleyParsons Komex, 2006).

In 2006, two background soil locations and two background groundwater locations were established and tested to the northeast of the Site, in areas not likely to have been affected by historical activities. Soil and groundwater background soil locations were advanced to 0.4 m bgs, to the depth of permafrost. Findings for the background locations indicated concentrations of hydrocarbons which were attributed to naturally occurring organic material. Salinity parameters EC, pH, and SAR reported values of 251 uS/cm, 6.7, and 0.6, respectively, within and/or below applicable guidelines (WorleyParsons Komex, 2006). Background chloride and sodium reported values of 15 mg/kg and 17 mg/kg, respectively. Concentrations for metals parameters were below applicable guidelines with the exception of selenium which measured 1.6 mg/kg.

## 8.3 Water Quality

Water samples collected from the lagoon were collected in compliance with NWTWB Type B Water License N7L1-1834. Samples were analyzed for parameters and compared to guidelines specified in Part D (Appendix I) and AENV Water Quality Guidelines for the Protection of Freshwater Aquatic Life (AENV, 1999). Water analytical results are summarized in Table 5.

## 9 LABORATORY ANALYTICAL PROGRAM

A total of 114 discrete soil samples and 15 composite soil samples were collected during the Remediation Program. Selected soil samples were analyzed for one or more of:

- BTEX and PHC fractions F1 to F4;
- polycyclic aromatic hydrocarbons (PAHs); and
- salinity parameters including pH, EC, SAR, and various cations and anions; and
- metals parameters.

Soil sample analyses were chosen based on potential contaminants of concern for the lagoon area and field screening results. The sampling locations can be found on Figures 3, 4, and 5. Table A summarizes the analytical schedule.

**Table A Remediation Program Analytical Schedule for Soils**

| Sample Type/Location      | Petroleum Hydrocarbons | Polycyclic Aromatic Hydrocarbons | Salinity   | Metals     |
|---------------------------|------------------------|----------------------------------|------------|------------|
| Lagoon                    | 95                     | 11                               | 95         | 95         |
| Backfill and Overburden   | 32                     | 11                               | 32         | 32         |
| Landfill Characterization | 1                      | -                                | 1          | 1          |
| <b>Total</b>              | <b>128</b>             | <b>22</b>                        | <b>128</b> | <b>128</b> |

Two surface water samples were collected from the lagoon prior to remedial activities. The samples were analyzed for routine parameters, nutrients, oil and grease, biological oxygen demand, total suspended solids, fecal coliforms, total residual chlorine, pH, ammonia, phosphorous, and total chlorine parameters.

Samples were analyzed at ALS Laboratories (ALS) in Edmonton, Alberta. ALS is registered with the Standards Council of Canada and the Canadian Association of Environmental Analytical Laboratories for environmental analyses. Comprehensive analytical reports are included in Appendix II.

## 10 REMEDIATION PROGRAM RESULTS

### 10.1 Lagoon Water Sampling

The results for the water samples collected in June and July 2013 met the criteria provided by the Northwest Territories Water Board in Type B Water Licence N7L1-1834 (Appendix I). The water sample collected during discharge in July 2013 did not reach the lab within the applicable holding times for parameters being analyzed. The sample collected in June 2013 was considered to be representative of water conditions at the time of discharge in July 2013. The analytical results for each sample collected are summarized in Table 5 and provided in Appendix II.

### 10.2 Lagoon Excavation

Remedial excavation activities were conducted from July 15, 2013 to August 18, 2013. The excavation was located on the west side of the camp building with the Mackenzie River bordering the south and west sides. The dimensions of the excavation were approximately 52 m by 34 m, with the long axis oriented in a north-south direction. The maximum depth of the excavation was approximately 7.5 m bgs. Prior to remedial activities, the lagoon had a depth of approximately 2.5 m bgs. Domestic waste debris was observed in the excavated material, including metal cans, fragments, and plastic debris.

A total of 96 soil samples were taken from the lagoon excavation: 25 interim soil samples and 71 confirmatory soil samples. Locations of sample points are shown on Figures 3, 4, and 5. The field screening results for OVA were between 0 ppm and 1850 ppm. Soil analytical results are summarized in Tables 1 and 2.

Concentrations of toluene, ethylbenzene, xylenes, and hydrocarbon fractions F1 to F3 were detected in one or more of the interim excavation samples. Samples exceeding applicable guidelines were located in the north, east, and south walls and/or base and are summarized as follows:

- toluene exceeding the applicable guideline (0.8 mg/kg) ranged from 1.0 mg/kg to 1.2 mg/kg;
- ethylbenzene exceeding the applicable guideline (1.2 mg/kg) ranged from 1.4 mg/kg to 6.9 mg/kg;
- xylenes exceeding the applicable guideline (1 mg/kg) ranged from 1.3 mg/kg to 34 mg/kg;
- PHC fraction F1 exceeding the applicable guideline for subsurface soil (230 mg/kg) ranged from 370 mg/kg to 1000 mg/kg;
- PHC fraction F2 exceeding the applicable guideline (150 mg/kg) ranged from 190 mg/kg to 7600 mg/kg; and,
- PHC fraction F3 exceeding the applicable guideline for surface soil (400 mg/kg) ranged from 790 mg/kg to 1300 mg/kg.

The laboratory analytical results from soil samples collected from the excavation were less than the applicable guidelines for PAH parameters with the exception of naphthalene. The reported concentration of naphthalene for two interim samples collected from the east wall measured 7.9 mg/kg and 15 mg/kg exceeding the applicable guideline of 0.6 mg/kg.

The laboratory analytical results for salinity parameters EC, pH, and SAR exceeded the applicable guidelines in 16 samples collected and are summarized as follows:

- seven samples exceeded the applicable guideline for EC (2.00) with concentrations ranging from 2.1 dS/cm to 2.4 dS/cm;
- two samples with pH values of 5.61 and 5.94 were outside the guideline range of 6 to 8;
- two samples exceeded the applicable guideline for SAR (5.00) with concentrations of 5.9 and 8.4;
- four samples exceeded the applicable EC and SAR guidelines with EC values ranging from 2.2 dS/cm to 3.6 dS/cm and SAR values ranging from 7.7 to 22; and,
- one sample exceeded the applicable EC, pH, and SAR guidelines with values of 2.2 dS/cm, 8.09, and 16.

Salinity parameters with no comparative guidelines, including soluble chloride, calcium, magnesium, potassium, sodium and sulphate, had measurable concentrations. Concentrations of SAR and EC exceeding guidelines are expected due to brackish water infiltration, overland flooding and the lagoon's close proximity to the middle channel of the Mackenzie River and the Beaufort Sea.

The analytical results for metals were reported as less than the applicable guidelines with the exception of the following:

- arsenic (13 mg/kg) in confirmatory sample EX-13-EN (7 m) collected from the north wall;
- total barium (960 mg/kg to 2,000 mg/kg) in three interim samples [(EX-13-1JB, EX-13-JE (1 m), and EX-13-KE (2 m))] collected from the base and east wall; and,
- selenium (1.4 mg/kg) in confirmatory sample EX-13-2L Stepout (1 m) collected from the east wall.

Arsenic and selenium exceedances were isolated occurrences slightly above the applicable guidelines. Sample EX-13-1JB was further analyzed for extractable barium and true total barium by fusion, with respective guideline values of 250 mg/kg and 10,000 mg/kg. The analytical results for these parameters were less than the applicable guidelines.

### 10.2.1 Confirmatory Samples

Confirmatory excavation limit samples were collected once the excavation had been expanded laterally and vertically to anticipated clean limits (Figure 4). The field screening results for OVA were between 0 ppm and 290 ppm. Confirmatory soil analytical results are summarized in Tables 3 and 4.



The laboratory analytical results from confirmatory soil samples collected from the lagoon excavation were less than the applicable guidelines for PHC and PAH parameters. Confirmatory samples collected and analyzed for trace metals parameters were below applicable guidelines with the exception of one sample from the north wall where the arsenic concentration measured 13 mg/kg and one sample from the east wall where the selenium concentration measured 1.4 mg/kg. The reported concentrations are marginally greater than the applicable guidelines (12 mg/kg and 1 mg/kg). The background value for selenium was reported as 1.6 mg/kg (WorleyParsons Komex, 2006).

Nine of the 61 samples analyzed for salinity parameters had EC values greater than the applicable guideline. Six samples had calculated SAR values greater than the applicable guideline. Salinity parameters with no comparative guidelines had variable soil concentration results, with notable elevated chloride and sodium concentrations when compared to background results; however, background locations were not analyzed at depths greater than 0.4 m bgs in 2006. Concentrations of salinity and EC exceeding guidelines are expected due to brackish water infiltration, overland flooding, and the lagoon's close proximity to the source area (middle channel of the Mackenzie River and the Beaufort Sea).

### 10.3 Backfill Samples

The backfill samples were collected from soil stockpiles and test pit locations on-site. Concentrations of PHC fractions F2 and F3 exceeding applicable guidelines were detected in three test pit samples and two stockpile samples.

The analytical results for trace metals were less than applicable guidelines with the exception of chromium and total barium. The concentration of chromium (110 mg/kg) exceeded the applicable guideline (64 mg/kg) in one test pit sample while the concentrations of total barium (ranging from 92 mg/kg to 2700 mg/kg) exceeded the applicable guideline (500 mg/kg) in nine test pit samples and eight stockpile samples. Samples exceeding the total barium guideline were further analyzed for extractable barium and true total barium by fusion, with respective guideline values of 250 mg/kg and 10,000 mg/kg. The analytical results for these parameters were less than the applicable guidelines with the exception of TP#1, where the true total barium concentration measured 16,000 mg/kg.

The laboratory analytical results for salinity and PAH parameters were less than the applicable guidelines.

Material from test pits and stockpiles with reported exceedances was not used as excavation backfill.

### 10.4 Excavation Backfilling

The lagoon excavation was backfilled with approved material from the on-site stockpiles from August 19 to 23, 2013. On August 23, 2013, stockpiles for backfilling were depleted. Approximately 20 cm of surficial soil from test pit areas on-site, where previously collected samples had come back below guidelines, were scraped to provide additional backfill material.

Backfilling activities were completed on August 27, 2013.

## 11 REMEDIATION DISCUSSION

Above guideline concentrations of EC, SAR, and relatively high soluble salts reported in the lagoon excavation are expected due to brackish water infiltration, overland flooding, and the lagoon's close proximity to the source area (middle channel of the Mackenzie River and the Beaufort Sea).

Laboratory results for EC concentrations exceeding the applicable guideline were reported with a measurement uncertainty ranging from +/- 0.26 to +/- 0.44.

SAR is the empirical mathematical expression developed as an index of the sodium hazard in soils (AENV, 2001). The reported concentration of sodium, calcium, and magnesium for a specific sample is entered in the equation below to provide the SAR value:

$$S.A.R. = \frac{Na^+}{\sqrt{\frac{1}{2}(Ca^{2+} + Mg^{2+})}}$$

The laboratory measurement uncertainty for concentrations of parameters used to generate SAR values are shown in Table B.

**Table B Laboratory Measurement Uncertainty for SAR Parameters**

| Parameter         | Measurement of Uncertainty |
|-------------------|----------------------------|
| Soluble Calcium   | +/- 3.8 to +/- 18          |
| Soluble Magnesium | +/- 1.2 to +/- 4.3         |
| Soluble Sodium    | +/- 31 to +/- 92           |

Arsenic and selenium exceedances slightly above the applicable guidelines were identified in one sample each. Concentrations of arsenic and selenium were reported below applicable guidelines in impacted material removed from the excavation. The observed concentrations of arsenic and selenium are typical for the region and were measured in background samples where the concentration of selenium exceeded the applicable guideline.

Since the slightly above guideline concentrations of EC, SAR, arsenic, and selenium were observed at depths greater than 1 m bgs, below the permafrost, they should not pose a significant risk for ecological uses.

Barium can be a major component of drilling fluid. Elevated concentrations of total barium were measured at the Site during the current and previous investigations, and the concentrations could result from barite (BaSO<sub>4</sub>), a common weighting agent in drilling mud. Barite in soil has a very low mobility and has an inconsequential effect on barium bioavailability (AENV, 2009). As a component of barite, barium is not considered a significant contaminant. To confirm this conclusion, several soil samples were analyzed for true total barium by fusion and compared to the AENV guideline for this parameter. There was one exceedance measured in a test pit sample. The test pit was located on the eastern portion of the lease and was collected to assess the area as a potential backfill source. This area was not used as backfill.

## 12 CONCLUSIONS

PHC affected soil resulting from previous operations was effectively removed from the lagoon area during the 2013 Remediation Program based on laboratory analytical data. Approximately 1,900 m<sup>3</sup> of excavated impacted soil was barged to Hay River and hauled by truck to the Tervita Rainbow Lake Landfill in Rainbow Lake, AB where it was disposed. The last load of impacted soil arrived at the landfill on October 16, 2013. Approximately 100 m<sup>3</sup> of impacted soil remains on-site in a secured metal shed, to be barged to the landfill during 2014 remedial activities.

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## 13 CLARIFICATIONS OF THIS REPORT

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The analyses, conclusions, and recommendations contained in this report are based on data derived from a limited number of test holes obtained from widely spaced subsurface explorations. The methods used indicate subsurface conditions only at the specific locations where samples were obtained or where in-situ tests would infer, only at the time they were obtained, and only to the depths penetrated. The samples and tests cannot be relied on to accurately reflect the nature and extent of strata variations that usually exist between sampling or testing locations.

IEG Consultants Ltd. cannot assume responsibility or liability for the adequacy of its recommendations when they are used in the field without IEG Consultants Ltd. being retained to direct field activities.

## 14 CLOSING

If you have any questions or comments regarding the above information, please contact the undersigned in our Calgary office at (403) 730-6809.

**IEG CONSULTANTS LTD.**



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## TABLES

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Table 1: Soil Analytical Results for Petroleum Hydrocarbon and Polycyclic Aromatic Hydrocarbon Parameters

| GENERAL                        |                    |                       |                          | PETROLEUM HYDROCARBONS |            |            |              |          |            |            |              |               | POLYCYCLIC AROMATIC HYDROCARBONS |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |   |
|--------------------------------|--------------------|-----------------------|--------------------------|------------------------|------------|------------|--------------|----------|------------|------------|--------------|---------------|----------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|--------------|----------|-----------|---------|---|
| Location                       | Sample Designation | Sample Depth (m bgs)  | Sample Date (yyyy-mm-dd) | OVA (Field Screening)  | Benzene    | Toluene    | Ethylbenzene | Xylenes  | F1         | F2         | F3           | F4            | Acenaphthene                     | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Perylene | Pyrene    |         |   |
| Units                          |                    |                       |                          | ppm                    | mg/kg      | mg/kg      | mg/kg        | mg/kg    | mg/kg      | mg/kg      | mg/kg        | mg/kg         | mg/kg                            | mg/kg          | mg/kg      | mg/kg              | mg/kg          | mg/kg                | mg/kg                | mg/kg    | mg/kg                 | mg/kg        | mg/kg    | mg/kg                   | mg/kg       | mg/kg        | mg/kg    | mg/kg     | mg/kg   |   |
| <b>GUIDELINES</b>              |                    |                       |                          |                        |            |            |              |          |            |            |              |               |                                  |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |   |
| GNWT 2003 Residential/Parkland |                    | Surface (0-1.5 m bgs) |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>130</b> | <b>150</b> | <b>400</b>   | <b>2800</b>   | -                                | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |         |   |
|                                |                    | Subsurface            |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>230</b> | <b>150</b> | <b>2,500</b> | <b>10,000</b> | -                                | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |         |   |
| <b>SOILS DATA</b>              |                    |                       |                          |                        |            |            |              |          |            |            |              |               |                                  |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |   |
| North Wall                     | EX-13-DN (0-1 m)   | 0-1.0                 | 2013-07-22               | 35                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |   |
|                                | EX-13-DN (4 m)     | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | <0.0050  | 0.0150    | <0.0050 |   |
|                                | EX-13-DN (7 m)     | 7.0                   | 2013-07-22               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-EN (3 m)     | 3.0                   | 2013-07-22               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-1EN (4 m)    | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 29         | 650          | 230           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | 0.0060                  | <0.0050     | <0.0050      | <0.0050  | 0.0059    | 0.0084  |   |
|                                | EX-13-2EN (4 m)    | 4.0                   | 2013-07-19               | 15                     | <0.0050    | <0.020     | 0.028        | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | 0.0410       | <0.0050  | 0.0250    | <0.0050 |   |
|                                | EX-13-EN (7 m)     | 7.0                   | 2013-07-22               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 12         | 100          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-LN (0-1 m)   | 0-1.0                 | 2013-07-22               | 15                     | <0.0050    | 0.037      | <0.010       | <0.040   | <12        | <10        | 230          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-LN (4 m)     | 4.0                   | 2013-07-19               | 80                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <b>190</b> | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | 0.0079                  | <0.0050     | 0.0440       | 0.0085   | 0.0180    | <0.0050 |   |
|                                | EX-13-LN (6 m)     | 6.0                   | 2013-07-22               | 40                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-3LN          | 4.0                   | 2013-08-01               | 80                     | 0.075      | 0.12       | 0.076        | 0.450    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-4LN          | 7.0                   | 2013-08-01               | 10                     | 0.040      | 0.33       | 0.16         | 0.800    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-5LN (4 m)    | 4.0                   | 2013-08-06               | 5                      | 0.019      | 0.034      | 0.023        | 0.110    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
| EX-13-5LN (7 m)                | 7.0                | 2013-08-06            | 10                       | 0.039                  | 0.28       | 0.076      | 0.450        | <12      | <10        | <50        | <50          | -             | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
| West Wall                      | EX-13-AW (3 m)     | 3.0                   | 2013-07-22               | 40                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | 0.0065   | <0.0050   |         |   |
|                                | EX-13-AW (4 m)     | 4.0                   | 2013-07-19               | 45                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | 0.0370   | <0.0050   |         |   |
|                                | EX-13-AW (7 m)     | 7.0                   | 2013-07-22               | 15                     | 0.0610     | 0.080      | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-2AW (2 m)    | 2.0                   | 2013-08-09               | 5                      | <0.010     | <0.040     | <0.020       | <0.081   | <24        | <10        | 390          | <100          | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-2AW (5 m)    | 5.0                   | 2013-08-09               | 20                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-BW (1 m)     | 1.0                   | 2013-07-22               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | 60           | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-BW (4 m)     | 4.0                   | 2013-07-19               | 20                     | -          | -          | -            | -        | -          | -          | -            | -             | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | 0.0210   | <0.0050   |         |   |
|                                | EX-13-2BW (4 m)    | 4.0                   | 2013-08-09               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-BW (6 m)     | 6.0                   | 2013-07-22               | 10                     | 0.0084     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-CW (2 m)     | 2.0                   | 2013-07-29               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | 74           | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-CW (4 m)     | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | <0.0050  | 0.0094    | <0.0050 |   |
|                                | EX-13-CW (5 m)     | 5.0                   | 2013-07-22               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-2CW (3 m)    | 3.0                   | 2013-08-09               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-DW (1 m)     | 1.0                   | 2013-07-29               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-2DW (3 m)    | 3.0                   | 2013-08-09               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
| EX-13-DW (4 m)                 | 4.0                | 2013-07-19            | -                        | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | <0.0050       | <0.0050                          | <0.0040        | <0.0050    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | 0.0056       | 0.0060   | 0.0250    | <0.0050 |   |
| EX-13-DW (6 m)                 | 6.0                | 2013-07-22            | 15                       | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | -             | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
| South Wall                     | EX-13-AS (1 m)     | 1.0                   | 2013-07-28               | 20                     | <0.011     | <0.044     | <0.022       | <0.087   | <26        | <22        | <b>930</b>   | 190           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |   |
|                                | EX-13-2AS (1 m)    | 1.0                   | 2013-08-09               | 0                      | <0.0050    | 0.034      | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-AS (4 m)     | 4.0                   | 2013-07-28               | 240                    | <0.0050    | <0.020     | 0.011        | <0.040   | <12        | 63         | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |   |
|                                | EX-13-HS (3 m)     | 3.0                   | 2013-08-14               | 10                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-HS (5 m)     | 5.0                   | 2013-08-14               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-IS (3 m)     | 3.0                   | 2013-08-14               | 100                    | 0.080      | 0.054      | 0.18         | 0.42     | 110        | 110        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
|                                | EX-13-2IS (3.5 m)  | 3.5                   | 2013-08-18               | 10                     | 0.022      | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       | - |
| EX-13-2IS (6 m)                | 6                  | 2013-08-18            | 45                       | 0.18                   | 0.034      | 0.20       | 0.17         |          |            |            |              |               |                                  |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |   |

Table 1: Soil Analytical Results for Petroleum Hydrocarbon and Polycyclic Aromatic Hydrocarbon Parameters

| GENERAL                        |                          |                       |                          | PETROLEUM HYDROCARBONS |            |            |              |          |            |            |              | POLYCYCLIC AROMATIC HYDROCARBONS |              |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |       |
|--------------------------------|--------------------------|-----------------------|--------------------------|------------------------|------------|------------|--------------|----------|------------|------------|--------------|----------------------------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|--------------|----------|-----------|-------|
| Location                       | Sample Designation       | Sample Depth (m bgs)  | Sample Date (yyyy-mm-dd) | OVA (Field Screening)  | Benzene    | Toluene    | Ethylbenzene | Xylenes  | F1         | F2         | F3           | F4                               | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Perylene | Pyrene    |       |
| Units                          |                          |                       |                          | ppm                    | mg/kg      | mg/kg      | mg/kg        | mg/kg    | mg/kg      | mg/kg      | mg/kg        | mg/kg                            | mg/kg        | mg/kg          | mg/kg      | mg/kg              | mg/kg          | mg/kg                | mg/kg                | mg/kg    | mg/kg                 | mg/kg        | mg/kg    | mg/kg                   | mg/kg       | mg/kg        | mg/kg    | mg/kg     | mg/kg |
| <b>GUIDELINES</b>              |                          |                       |                          |                        |            |            |              |          |            |            |              |                                  |              |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |       |
| GNWT 2003 Residential/Parkland |                          | Surface (0-1.5 m bgs) |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>130</b> | <b>150</b> | <b>400</b>   | <b>2800</b>                      | -            | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |       |
|                                |                          | Subsurface            |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>230</b> | <b>150</b> | <b>2,500</b> | <b>10,000</b>                    | -            | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |       |
| East Wall                      | EX-13-IE (6 m)           | 6.0                   | 2013-07-28               | 320                    | 0.0430     | 0.120      | 0.470        | 3.900    | 96         | 380        | 410          | 140                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-I STEPOUT (2 m)    | 2.0                   | 2013-08-06               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2IE (3 m)          | 3.0                   | 2013-08-18               | 10                     | <0.0050    | <0.020     | <0.010       | <0.040   | 18         | 450        | 130          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2IE (6 m)          | 6.0                   | 2013-08-18               | 5                      | 0.041      | 0.029      | 0.10         | 0.16     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3IE (3 m)          | 3.0                   | 2013-08-22               | 10                     | 0.12       | 0.034      | 0.042        | 0.2      | <12        | 15         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3IE STEPOUT (3 m)  | 3.0                   | 2013-08-22               | 25                     | 0.02       | 0.079      | 0.022        | 0.14     | <12        | 14         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-JE (1 m)           | 1.0                   | 2013-07-28               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 120        | 180          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-JE (7 m)           | 7.0                   | 2013-07-28               | 20                     | 0.0360     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-1J STEPOUT (1.5 m) | 1.5                   | 2013-08-06               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2J STEPOUT (1.5 m) | 1.5                   | 2013-08-06               | 20                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 38         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2JE                | 4.0                   | 2013-08-01               | 45                     | <0.0050    | <0.020     | 0.019        | 0.11     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3JE                | 4.0                   | 2013-08-01               | 70                     | 0.040      | 0.12       | 0.075        | 0.38     | 19         | 13         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-4JE (4 m)          | 4.0                   | 2013-08-06               | 0                      | 0.045      | 0.18       | 0.076        | 0.38     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-4JE (6 m)          | 6.0                   | 2013-08-06               | 25                     | 0.014      | 0.087      | 0.047        | 0.26     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (2 m)          | 2.0                   | 2013-08-08               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (4 m)          | 4.0                   | 2013-08-08               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 11         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (1 m TRENCH)   | Wall Scrape           | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-1KE                | 3.5                   | 2013-07-21               | -                      | <0.0050    | 0.026      | 0.022        | 0.270    | 380        | 400        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-KE (2 m)           | 2.0                   | 2013-07-28               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 14         | 130          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3KE                | 4.0                   | 2013-08-01               | 0                      | 0.088      | 0.35       | 0.16         | 0.86     | 19         | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-1K STEPOUT (1 m)   | 1.0                   | 2013-08-06               | 910                    | 0.042      | 0.043      | 6.9          | 29       | 760        | 4900       | 790          | <50                              | 0.43         | <0.19          | <0.0040    | <0.0050            | <0.0050        | 0.0067               | <0.0050              | <0.0050  | <0.0050               | <0.0050      | 0.86     | <0.0050                 | 7.9         | 0.70         | 0.016    | 0.0064    |       |
|                                | EX-13-2K STEPOUT (1 m)   | 1.0                   | 2013-08-06               | 1850                   | 0.038      | 1.0        | 6.1          | 34       | 1000       | 7600       | 1300         | <50                              | <0.80        | 0.33           | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | 0.0054       | <2.0     | <0.0050                 | 15          | 1.6          | <0.0050  | 0.010     |       |
|                                | EX-13-4KE (4 m)          | 4.0                   | 2013-08-06               | 120                    | 0.030      | 0.10       | 0.092        | 0.71     | <12        | 49         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-4KE (7 m)          | 7.0                   | 2013-08-06               | 15                     | <0.0050    | 0.054      | 0.020        | 0.11     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5KE (3.5 m)        | 3.5                   | 2013-08-06               | 5                      | 0.010      | 0.034      | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5KE (5.5 m)        | 5.5                   | 2013-08-06               | 75                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 20         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (2 m)          | 2.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 15         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (4 m)          | 4.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (6 m)          | 6.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (1 m TRENCH)   | Wall Scrape           | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-7KE (2 m)          | 2.0                   | 2013-08-08               | 15                     | 0.013      | 0.037      | 0.084        | 0.77     | 16         | 130        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-7KE (4 m)          | 4.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
| EX-13-7KE (6 m)                | 6.0                      | 2013-08-08            | 0                        | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-7KE (1 m TRENCH)         | Wall Scrape              | 2013-08-08            | 120                      | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-1L STEPOUT (1.25 m)      | 1.25                     | 2013-08-06            | 5                        | <0.0050                | 0.030      | <0.010     | <0.040       | <12      | <23        | <120       | <120         | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-2L STEPOUT (1 m)         | 1.0                      | 2013-08-06            | 35                       | <0.012                 | 0.63       | <0.023     | <0.093       | <28      | 18         | 140        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-2LE                      | 4.0                      | 2013-08-01            | 0                        | 0.090                  | 0.17       | 0.081      | 0.500        | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-1LE                      | 4.0                      | 2013-07-21            | -                        | 0.0090                 | 0.062      | 0.026      | 0.330        | 13       | 810        | 100        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-LE (6 m)                 | 6.0                      | 2013-07-28            | -                        | 0.0099                 | <0.020     | 0.044      | 1.300        | 94       | 580        | 150        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-3LE (4 m)                | 4.0                      | 2013-08-06            | 20                       | 0.015                  | 0.034      | 0.023      | 0.130        | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-3LE (7 m)                | 7.0                      | 2013-08-06            | 10                       | 0.019                  | 0.091      | 0.027      | 0.160        | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |

Notes:  
 1. m bgs = metres below ground surface  
 2. Current and/or applicable guidelines are bolded  
 (yellow highlight) = Exceeds applicable guidelines  
 (red highlight) = Indicates interim soil sample that has been removed  
 3. View analytical report for more comprehensive results  
 4. Government of Northwest Territories (GNWT), 2003. Environmental Guideline for Contaminated Site Remediation. November 2003.



Table 2: Soil Analytical Results for Salinity, Physical, and Trace Metal Parameters

| GENERAL           |   |                      |                          | PHYSICAL                          |                                    |                              |         |           |        |           |          |          |                         |                   |            |       |                       | TRACE METALS |         |                |                      |                     |           |         |          |        |        |       |         |            |        |          |        |          |       |         |          |       |       |   |  |  |
|-------------------|---|----------------------|--------------------------|-----------------------------------|------------------------------------|------------------------------|---------|-----------|--------|-----------|----------|----------|-------------------------|-------------------|------------|-------|-----------------------|--------------|---------|----------------|----------------------|---------------------|-----------|---------|----------|--------|--------|-------|---------|------------|--------|----------|--------|----------|-------|---------|----------|-------|-------|---|--|--|
| Location          | Sample Designation                              | Sample Depth (m bgs) | Sample Date (yyyy-mm-dd) | pH (CaCl <sub>2</sub> Extraction) | Electrical Conductivity, EC (dS/m) | Sodium Adsorption Ratio, SAR | Calcium | Magnesium | Sodium | Potassium | Chloride | Sulphate | % Saturation Percentage | > 75 micron sieve | Grain Size | Boron | Chromium (Hexavalent) | Antimony     | Arsenic | Barium (Total) | Barium (Extractable) | Barium (True Total) | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead  | Mercury | Molybdenum | Nickel | Selenium | Silver | Thallium | Tin   | Uranium | Vanadium | Zinc  |       |   |  |  |
|                   |   |                      |                          | Units                             | -                                  | -                            | mg/kg   | mg/kg     | mg/kg  | mg/kg     | mg/kg    | mg/kg    | %                       | -                 | -          | mg/kg | mg/kg                 | mg/kg        | mg/kg   | mg/kg          | mg/kg                | mg/kg               | mg/kg     | mg/kg   | mg/kg    | mg/kg  | mg/kg  | mg/kg | mg/kg   | mg/kg      | mg/kg  | mg/kg    | mg/kg  | mg/kg    | mg/kg | mg/kg   | mg/kg    | mg/kg | mg/kg |   |  |  |
| <b>GUIDELINES</b> |   |                      |                          |                                   |                                    |                              |         |           |        |           |          |          |                         |                   |            |       |                       |              |         |                |                      |                     |           |         |          |        |        |       |         |            |        |          |        |          |       |         |          |       |       |   |  |  |
| GNWT 2003         | Residential/Parkland Area - Coarse Surface Soil |                      |                          | 6 - 8                             | -                                  | -                            | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | 0.4                   | 20           | 12      | 500            | -                    | -                   | 4         | 10.0    | 64       | 50     | 63     | 140   | 6.6     | 10         | 50     | 1        | 20     | 1        | 50    | -       | 130      | 200   |       |   |  |  |
| AENV 2009         | Residential/Parkland Area - Coarse Subsoil      |                      |                          | 6 - 8                             | 2.00                               | 5.00                         | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | 0.4                   | 20           | 12      | 500            | -                    | -                   | 4         | 10.0    | 64       | 50     | 63     | 140   | 6.6     | 10         | 50     | 1        | 20     | 1        | 50    | -       | 130      | 200   |       |   |  |  |
| AENV 2009         | Barite  |                      |                          | -                                 | -                                  | -                            | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | -                     | -            | -       | 250            | 10,000               | -                   | -         | -       | -        | -      | -      | -     | -       | -          | -      | -        | -      | -        | -     | -       | -        | -     | -     | - |  |  |
| <b>SOIL DATA</b>  |   |                      |                          |                                   |                                    |                              |         |           |        |           |          |          |                         |                   |            |       |                       |              |         |                |                      |                     |           |         |          |        |        |       |         |            |        |          |        |          |       |         |          |       |       |   |  |  |
| North Wall        | EX-13-DN (0-1 m)                                | 0-1.0                | 2013-07-22               | 7.25                              | 0.22                               | 0.57                         | 10      | 1.7       | 4.7    | 7.7       | 3.4      | 17       | 39                      | -                 | -          | -     | <0.15                 | <1.0         | 6.1     | 120            | -                    | -                   | <0.40     | <0.10   | 12       | 4.1    | <5.0   | 3.6   | <0.050  | 0.57       | 14     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 13       | 28    |       |   |  |  |
|                   | EX-13-DN (4 m)                                  | 4.0                  | 2013-07-19               | 7.83                              | 0.24                               | 0.48                         | 11      | 3.9       | 4.3    | 1.2       | 2.6      | 12       | 36                      | 94                | COARSE     | -     | <0.15                 | <1.0         | 5.2     | 78             | -                    | -                   | <0.40     | <0.10   | 8.5      | 3.5    | <5.0   | 2.9   | <0.050  | 0.47       | 11     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 24    |       |   |  |  |
|                   | EX-13-DN (7 m)                                  | 7.0                  | 2013-07-22               | 7.46                              | 0.71                               | 1.1                          | 22      | 5.7       | 12     | 2.9       | 5.3      | 93       | 30                      | -                 | -          | -     | <0.18                 | <0.15        | <1.0    | 5.3            | 89                   | -                   | -         | <0.40   | <0.10    | 9.4    | 3.9    | <5.0  | 3.1     | <0.050     | 0.52   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 13    | 26    |   |  |  |
|                   | EX-13-EN (3 m)                                  | 3.0                  | 2013-07-22               | 7.74                              | 0.12                               | 0.99                         | 4.4     | 0.61      | 4.5    | 0.74      | <1.5     | 3.1      | 29                      | -                 | -          | -     | <0.10                 | <0.15        | <1.0    | 6.1            | 76                   | -                   | -         | <0.40   | <0.10    | 9.4    | 3.6    | <5.0  | 3.0     | <0.050     | 0.51   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 25    |   |  |  |
|                   | EX-13-1EN (4 m)                                 | 4.0                  | 2013-07-19               | 6.61                              | 0.41                               | 0.51                         | 44      | 14        | 13     | 2.9       | 12       | 52       | 78                      | 71                | COARSE     | -     | <0.95                 | <0.15        | <1.0    | 5.4            | 380                  | -                   | -         | <0.40   | 0.21     | 14     | 3.7    | 9.9   | 9.5     | 0.059      | 0.50   | 14       | <0.50  | <1.0     | <0.30 | 1.7     | <1.0     | 15    | 49    |   |  |  |
|                   | EX-13-2EN (4 m)                                 | 4.0                  | 2013-07-19               | 7.46                              | 0.35                               | 0.50                         | 15      | 3.7       | 4.7    | 1.7       | 3.2      | 27       | 32                      | 96                | COARSE     | -     | <0.23                 | <0.15        | <1.0    | 6.0            | 99                   | -                   | -         | <0.40   | 0.11     | 6.6    | 3.7    | <5.0  | 3.7     | 0.062      | 0.69   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 13    | 30    |   |  |  |
|                   | EX-13-EN (7 m)                                  | 7.0                  | 2013-07-22               | 6.72                              | 1.5                                | 0.58                         | 90      | 90        | 27     | 16        | 3.7      | 32       | 320                     | -                 | -          | -     | 2.6                   | <0.15        | <1.0    | 13             | 210                  | -                   | -         | <0.40   | 0.98     | 9.3    | 6.8    | 7.4   | 4.6     | <0.050     | 1.4    | 18       | <0.50  | <1.0     | <0.30 | <1.0    | 1.2      | 21    | 40    |   |  |  |
|                   | EX-13-LN (0-1 m)                                | 0-1.0                | 2013-07-22               | 6.10                              | 0.18                               | 1.1                          | 25      | 7.3       | 28     | 1.9       | 10       | 56       | 140                     | -                 | -          | -     | 0.84                  | <0.15        | <1.0    | 5.1            | 480                  | -                   | -         | <0.40   | 0.20     | 6.8    | 3.7    | 7.7   | 9.6     | 0.057      | 0.50   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 14    | 28    |   |  |  |
|                   | EX-13-LN (4 m)                                  | 4.0                  | 2013-07-19               | 7.26                              | 0.28                               | 0.65                         | 11      | 2.9       | 5.3    | 1.6       | 2.1      | 19       | 32                      | 95                | COARSE     | -     | 0.14                  | <0.15        | <1.0    | 4.8            | 82                   | -                   | -         | <0.40   | <0.10    | 7.0    | 3.7    | <5.0  | 5.0     | <0.050     | 0.40   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 28    |   |  |  |
|                   | EX-13-LN (6 m)                                  | 6.0                  | 2013-07-22               | 6.64                              | 0.41                               | 0.29                         | 28      | 7.4       | 4.9    | 14        | 4.0      | 70       | 55                      | -                 | -          | -     | 0.56                  | <0.15        | <1.0    | 4.9            | 220                  | -                   | -         | <0.40   | <0.10    | 5.0    | 2.8    | <5.0  | 6.0     | <0.050     | 0.45   | 7.0      | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 9.6   | 29    |   |  |  |
|                   | EX-13-3LN                                       | 4.0                  | 2013-08-01               | 7.61                              | 1.0                                | 1.7                          | 27      | 8.1       | 23     | 3.9       | 36       | 97       | 31                      | -                 | -          | -     | 0.21                  | <0.15        | <1.0    | 5.2            | 71                   | -                   | -         | <0.40   | <0.10    | 5.4    | 3.5    | <5.0  | 2.7     | <0.050     | 0.47   | 9.7      | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 11    | 25    |   |  |  |
|                   | EX-13-4LN                                       | 7.0                  | 2013-08-01               | 7.53                              | 1.4                                | 1.9                          | 37      | 11        | 27     | 4.0       | 55       | 120      | 29                      | -                 | -          | -     | 0.36                  | <0.15        | <1.0    | 5.3            | 71                   | -                   | -         | <0.40   | <0.10    | 5.4    | 3.5    | <5.0  | 3.0     | <0.050     | 0.47   | 10       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 11    | 25    |   |  |  |
|                   | EX-13-5LN (4 m)                                 | 4.0                  | 2013-08-06               | 7.50                              | 0.79                               | 0.96                         | 24      | 5.0       | 11     | 2.6       | 5.2      | 91       | 28                      | -                 | -          | -     | 0.47                  | <0.15        | <1.0    | 5.9            | 110                  | -                   | -         | <0.40   | <0.10    | 5.0    | 3.5    | <5.0  | 3.6     | <0.050     | 0.44   | 8.6      | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 11    | 25    |   |  |  |
|                   | EX-13-5LN (7 m)                                 | 7.0                  | 2013-08-06               | 7.44                              | 1.4                                | 2.0                          | 40      | 12        | 30     | 4.2       | 51       | 150      | 29                      | -                 | -          | -     | 0.21                  | <0.15        | <1.0    | 5.7            | 86                   | -                   | -         | <0.40   | <0.10    | 6.5    | 4.0    | <5.0  | 3.6     | <0.050     | 0.65   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 29    |   |  |  |
| West Wall         | EX-13-AW (3 m)                                  | 3.0                  | 2013-07-22               | 7.12                              | 0.35                               | 0.89                         | 18      | 3.8       | 11     | 2.3       | 16       | 22       | 45                      | -                 | -          | -     | 0.90                  | <0.15        | <1.0    | 8.1            | 180                  | -                   | -         | <0.40   | 0.12     | 11     | 4.2    | 6.5   | 4.8     | <0.050     | 0.62   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 20    | 34    |   |  |  |
|                   | EX-13-AW (4 m)                                  | 4.0                  | 2013-07-19               | 7.68                              | 0.28                               | 1.1                          | 10      | 1.6       | 8.6    | 2.0       | 4.9      | 9.3      | 33                      | 97                | COARSE     | -     | 0.18                  | <0.15        | <1.0    | 6.0            | 240                  | -                   | -         | <0.40   | <0.10    | 9.2    | 3.8    | <5.0  | 3.4     | <0.050     | 0.56   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 24    |   |  |  |
|                   | EX-13-AW (7 m)                                  | 7.0                  | 2013-07-22               | 7.24                              | 0.42                               | 1.1                          | 16      | 2.3       | 10     | 3.6       | 12       | 29       | 35                      | -                 | -          | -     | 0.20                  | <0.15        | <1.0    | 5.6            | 97                   | -                   | -         | <0.40   | <0.10    | 11     | 3.9    | <5.0  | 3.5     | <0.050     | 0.58   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 13    | 29    |   |  |  |
|                   | EX-13-2AW (2 m)                                 | 2.0                  | 2013-08-09               | 6.87                              | 0.37                               | 1.9                          | 35      | 11        | 57     | 3.9       | 60       | 73       | 120                     | -                 | -          | -     | 1.4                   | <0.15        | <1.0    | 4.1            | 220                  | -                   | -         | <0.40   | 0.18     | 7.4    | 3.2    | 6.2   | 3.4     | <0.068     | 0.51   | 11       | 0.59   | <1.0     | <0.30 | <1.0    | <1.0     | 13    | 26    |   |  |  |
|                   | EX-13-2AW (5 m)                                 | 5.0                  | 2013-08-09               | 7.58                              | 0.71                               | 1.1                          | 19      | 5.0       | 12     | 4.2       | 7.0      | 82       | 31                      | -                 | -          | -     | 0.11                  | <0.15        | <1.0    | 5.2            | 62                   | -                   | -         | <0.40   | <0.10    | 6.4    | 3.9    | <5.0  | 2.8     | <0.050     | 0.41   | 11       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 26    |   |  |  |
|                   | EX-13-BW (1 m)                                  | 1.0                  | 2013-07-22               | 7.00                              | 0.19                               | 2.9                          | 6.8     | 1.4       | 22     | 1.1       | 9.0      | 10       | 49                      | -                 | -          | -     | 0.39                  | <0.15        | <1.0    | 6.0            | 210                  | -                   | -         | <0.40   | 0.11     | 10     | 4.4    | 5.8   | 4.5     | <0.050     | 0.57   | 13       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 17    | 25    |   |  |  |
|                   | EX-13-BW (4 m)                                  | 4.0                  | 2013-07-19               | -                                 | -                                  | -                            | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | -                     | -            | -       | -              | -                    | -                   | -         | -       | -        | -      | -      | -     | -       | -          | -      | -        | -      | -        | -     | -       | -        | -     | -     | - |  |  |
|                   | EX-13-2BW (4 m)                                 | 4.0                  | 2013-08-09               | 7.56                              | 0.18                               | 1.2                          | 4.7     | 0.70      | 5.8    | 1.1       | 2.8      | 12       | 32                      | -                 | -          | -     | <0.10                 | <0.15        | <1.0    | 4.9            | 71                   | -                   | -         | <0.40   | <0.10    | 5.6    | 3.7    | <5.0  | 2.7     | <0.050     | <0.40  | -        | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 11    | 26    |   |  |  |
|                   | EX-13-BW (6 m)                                  | 6.0                  | 2013-07-22               | 7.39                              | 2.2                                | 7.7                          | 34      | 8.4       | 110    | 3.9       | 150      | 120      | 34                      | -                 | -          | -     | 0.50                  | <0.15        | <1.0    | 5.6            | 100                  | -                   | -         | <0.40   | <0.10    | 12     | 4.2    | <5.0  | 3.4     | <0.050     | 0.60   | 14       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 14    | 29    |   |  |  |
|                   | EX-13-CW (2 m)                                  | 2.0                  | 2013-07-29               | 6.87                              | 0.30                               | 0.41                         | 29      | 8.1       | 7.2    | 3.1       | 12       | 21       | 55                      | -                 | -          | -     | 0.37                  | <0.15        | <1.0    | 6.5            | 170                  | -                   | -         | <0.40   | <0.10    | 11     | 4.6    | 7.1   | 4.8     | <0.050     | 0.72   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 15    | 30    |   |  |  |
|                   | EX-13-CW (4 m)                                  | 4.0                  | 2013-07-19               | 7.71                              | 0.19                               | 1.2                          | 6.4     | 0.77      | 6.8    | 1.8       | <1.7     | 11       | 33                      | 98                | COARSE     | -     | 0.12                  | <0.15        | <1.0    | 5.0            | 79                   | -                   | -         | <0.40   | <0.10    | 12     | 3.6    | <5.0  | 3.0     | <0.050     | 0.51   | 12       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 12    | 25    |   |  |  |
|                   | EX-13-CW (5 m)                                  | 5.0                  | 2013-07-22               | 7.62                              | 0.40                               | 1.7                          | 11      | 2.1       | 13     | 2.6       | 7.3      | 44       | 34                      | -                 | -          | -     | 0.22                  | <0.15        | <1.0    | 5.8            | 100                  | -                   | -         | <0.40   | <0.10    | 8.2    | 4.4    | <5.0  | 3.6     | <0.050     | 0.55   | 13       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 15    | 33    |   |  |  |
|                   | EX-13-2CW (3 m)                                 | 3.0                  | 2013-08-09               | 7.02                              | 0.19                               | 2.1                          | 3.9     | 0.73      | 9.9    | 1.1       | 3.9      | 13       | 34                      | -                 | -          | -     | 0.23                  | <0.15        | <1.0    | 6.9            | 150                  | -                   | -         | <0.40   | 0.11     | 8.9    | 5.1    | 6.7   | 4.8     | <0.050     | 0.66   | 14       | <0.50  | <1.0     | <0.30 | <1.0    | <1.0     | 18    | 29    |   |  |  |
|                   | EX-13-DW (1 m)                                  | 1.0                  | 2013-07-29               | 6.72                              | 0.36                               | 0                            |         |           |        |           |          |          |                         |                   |            |       |                       |              |         |                |                      |                     |           |         |          |        |        |       |         |            |        |          |        |          |       |         |          |       |       |   |  |  |

Table 2: Soil Analytical Results for Salinity, Physical, and Trace Metal Parameters

| GENERAL           |   |                      |                          | PHYSICAL                          |                                    |                              |         |           |        |           |          |          |                         | TRACE METALS      |            |       |                       |          |         |                |                      |                     |           |         |          |        |        |        |         |            |        |          |        |          |       |         |          |       |       |       |   |  |  |
|-------------------|---|----------------------|--------------------------|-----------------------------------|------------------------------------|------------------------------|---------|-----------|--------|-----------|----------|----------|-------------------------|-------------------|------------|-------|-----------------------|----------|---------|----------------|----------------------|---------------------|-----------|---------|----------|--------|--------|--------|---------|------------|--------|----------|--------|----------|-------|---------|----------|-------|-------|-------|---|--|--|
| Location          | Sample Designation                              | Sample Depth (m bgs) | Sample Date (yyyy-mm-dd) | pH (CaCl <sub>2</sub> Extraction) | Electrical Conductivity, EC (dS/m) | Sodium Adsorption Ratio, SAR | Calcium | Magnesium | Sodium | Potassium | Chloride | Sulphate | % Saturation Percentage | > 75 micron sieve | Grain Size | Boron | Chromium (Hexavalent) | Antimony | Arsenic | Barium (Total) | Barium (Extractable) | Barium (True Total) | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead   | Mercury | Molybdenum | Nickel | Selenium | Silver | Thallium | Tin   | Uranium | Vanadium | Zinc  |       |       |   |  |  |
|                   |   |                      |                          | Units                             | -                                  | -                            | mg/kg   | mg/kg     | mg/kg  | mg/kg     | mg/kg    | mg/kg    | %                       | -                 | -          | mg/kg | mg/kg                 | mg/kg    | mg/kg   | mg/kg          | mg/kg                | mg/kg               | mg/kg     | mg/kg   | mg/kg    | mg/kg  | mg/kg  | mg/kg  | mg/kg   | mg/kg      | mg/kg  | mg/kg    | mg/kg  | mg/kg    | mg/kg | mg/kg   | mg/kg    | mg/kg | mg/kg | mg/kg |   |  |  |
| <b>GUIDELINES</b> |   |                      |                          |                                   |                                    |                              |         |           |        |           |          |          |                         |                   |            |       |                       |          |         |                |                      |                     |           |         |          |        |        |        |         |            |        |          |        |          |       |         |          |       |       |       |   |  |  |
| <b>GNWT 2003</b>  | Residential/Parkland Area - Coarse Surface Soil |                      |                          | 6 - 8                             | -                                  | -                            | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | 0.4                   | 20       | 12      | 500            | -                    | -                   | 4         | 10.0    | 64       | 50     | 63     | 140    | 6.6     | 10         | 50     | 1        | 20     | 1        | 50    | -       | 130      | 200   |       |       |   |  |  |
|                   | Residential/Parkland Area - Coarse Subsoil      |                      |                          | 6 - 8                             | 2.00                               | 5.00                         | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | 0.4                   | 20       | 12      | 500            | -                    | -                   | 4         | 10.0    | 64       | 50     | 63     | 140    | 6.6     | 10         | 50     | 1        | 20     | 1        | 50    | -       | 130      | 200   |       |       |   |  |  |
| <b>AENV 2009</b>  | Barite  |                      |                          | -                                 | -                                  | -                            | -       | -         | -      | -         | -        | -        | -                       | -                 | -          | -     | -                     | -        | -       | 250            | 10,000               | -                   | -         | -       | -        | -      | -      | -      | -       | -          | -      | -        | -      | -        | -     | -       | -        | -     | -     | -     | - |  |  |
| <b>SOIL DATA</b>  |   |                      |                          |                                   |                                    |                              |         |           |        |           |          |          |                         |                   |            |       |                       |          |         |                |                      |                     |           |         |          |        |        |        |         |            |        |          |        |          |       |         |          |       |       |       |   |  |  |
| Base              | EX-13-AB (7 m)                                  | 7.0                  | 2013-07-28               | 7.37                              | 1.2                                | 8.4                          | 8.2     | 3.8       | 67     | 7.2       | 67       | 69       | 33                      | -                 | -          | 0.20  | <0.15                 | <1.0     | 4.8     | 70             | -                    | -                   | <0.40     | <0.10   | 6.1      | 3.6    | <5.0   | 2.9    | <0.050  | 0.49       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 10       | 26    |       |       |   |  |  |
|                   | EX-13-BB (7 m)                                  | 7.0                  | 2013-07-28               | 7.16                              | 3.6                                | 17                           | 17      | 5.3       | 170    | 8.3       | 240      | 80       | 28                      | -                 | -          | 0.31  | <0.15                 | <1.0     | 6.3     | 70             | -                    | -                   | <0.40     | <0.10   | 7.6      | 4.0    | <5.0   | 3.2    | <0.050  | 0.63       | 12     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 10       | 27    |       |       |   |  |  |
|                   | EX-13-CB (7 m)                                  | 7.0                  | 2013-07-28               | 7.47                              | 2.6                                | 10                           | 23      | 6.1       | 120    | 8.7       | 190      | 54       | 30                      | 2.5               | 97         | 0.15  | <0.15                 | <1.0     | 5.3     | 72             | -                    | -                   | <0.40     | <0.10   | 5.2      | 3.4    | <5.0   | 3.0    | <0.050  | 0.47       | 9.5    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 9.8      | 25    |       |       |   |  |  |
|                   | EX-13-1DB                                       | 7.0                  | 2013-07-21               | 7.64                              | 0.24                               | 0.58                         | 10      | 2.4       | 4.6    | 1.5       | 2.9      | 26       | 33                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 5.2     | 91             | -                    | -                   | <0.40     | <0.10   | 7.0      | 3.8    | <5.0   | 3.3    | <0.050  | 0.46       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 13       | 27    |       |       |   |  |  |
|                   | EX-13-1EB                                       | 7.0                  | 2013-07-21               | 6.99                              | 0.23                               | 0.73                         | 8.5     | 2.1       | 5.2    | 1.8       | 5.3      | 13       | 32                      | -                 | -          | 0.20  | <0.15                 | <1.0     | 5.6     | 350            | -                    | -                   | <0.40     | <0.10   | 25       | 3.5    | <5.0   | 6.5    | <0.050  | 0.81       | 17     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 13       | 26    |       |       |   |  |  |
|                   | EX-13-FB (7 m)                                  | 7.0                  | 2013-07-28               | 7.03                              | 1.6                                | 5.9                          | 20      | 5.8       | 65     | 3.7       | 120      | 55       | 31                      | -                 | -          | 0.21  | <0.15                 | <1.0     | 5.1     | 120            | -                    | -                   | <0.40     | 0.12    | 6.2      | 3.7    | 6.0    | 4.2    | <0.050  | 0.49       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 10       | 29    |       |       |   |  |  |
|                   | EX-13-GB (7 m)                                  | 7.0                  | 2013-07-28               | 7.10                              | 2.9                                | 22                           | 8.3     | 1.8       | 150    | 28        | 210      | 46       | 30                      | -                 | -          | 0.20  | <0.15                 | <1.0     | 4.5     | 57             | -                    | -                   | <0.40     | <0.10   | 5.8      | 3.1    | <5.0   | 2.5    | <0.050  | 0.44       | 9.1    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 8.9      | 23    |       |       |   |  |  |
|                   | EX-13-HB (7 m)                                  | 7.0                  | 2013-07-28               | 8.09                              | 2.2                                | 16                           | 6.4     | 3.7       | 120    | 16        | 170      | 28       | 32                      | -                 | -          | 0.49  | <0.15                 | <1.0     | 4.7     | 78             | -                    | -                   | <0.40     | <0.10   | 5.3      | 3.4    | <5.0   | 2.7    | <0.050  | 0.49       | 9.1    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 9.2      | 24    |       |       |   |  |  |
|                   | EX-13-2HB (7 m)                                 | 7.0                  | 2013-08-14               | 7.20                              | 0.97                               | 0.84                         | 35      | 9.3       | 12     | 6.3       | 36       | 83       | 32                      | -                 | -          | 1.2   | <0.15                 | <1.0     | 5.8     | 83             | -                    | -                   | <0.40     | <0.10   | 6.1      | 4.0    | <5.0   | 3.2    | <0.050  | 0.63       | 12     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 12       | 30    |       |       |   |  |  |
|                   | EX-13-1B (7 m)                                  | 7.0                  | 2013-07-28               | 7.28                              | 0.73                               | 3.8                          | 5.2     | 2.4       | 24     | 20        | 19       | 65       | 31                      | -                 | -          | 0.19  | <0.15                 | <1.0     | 4.5     | 65             | -                    | -                   | <0.40     | <0.10   | 5.7      | 3.0    | <5.0   | 2.5    | <0.050  | 0.43       | 8.7    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 8.7      | 22    |       |       |   |  |  |
|                   | EX-13-21B (7 m)                                 | 7.0                  | 2013-08-18               | 7.37                              | 0.96                               | 3.9                          | 17      | 4.1       | 40     | 3.2       | 27       | 93       | 33                      | -                 | -          | 0.20  | <0.15                 | <1.0     | 5.1     | 75             | -                    | -                   | <0.40     | <0.10   | 7.9      | 3.9    | <5.0   | 3.1    | <0.050  | 0.43       | 11     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 12       | 29    |       |       |   |  |  |
|                   | EX-13-1JB                                       | 6.0                  | 2013-07-21               | 6.90                              | 1.5                                | 1.0                          | 81      | 13        | 23     | 4.7       | 34       | 250      | 38                      | -                 | -          | 0.50  | <0.15                 | <1.0     | 5.1     | 1900           | 27                   | 4,100               | <0.40     | 0.22    | 11       | 3.4    | 25     | 18     | <0.050  | 0.63       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 14       | 60    |       |       |   |  |  |
|                   | EX-13-21B (6.5 m)                               | 6.5                  | 2013-08-06               | 7.45                              | 1.6                                | 2.9                          | 32      | 11        | 40     | 4.0       | 110      | 60       | 29                      | -                 | -          | 0.22  | <0.15                 | <1.0     | 5.7     | 77             | -                    | -                   | <0.40     | <0.10   | 6.2      | 3.7    | <5.0   | 3.3    | <0.050  | 0.62       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 12       | 28    |       |       |   |  |  |
|                   | EX-13-KB (7 m)                                  | 7.0                  | 2013-07-28               | 7.27                              | 0.85                               | 2.1                          | 19      | 5.3       | 22     | 3.7       | 21       | 84       | 29                      | -                 | -          | 0.19  | <0.15                 | <1.0     | 4.7     | 66             | -                    | -                   | <0.40     | <0.10   | 6.0      | 3.3    | <5.0   | 2.8    | <0.050  | 0.48       | 9.5    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 8.6      | 24    |       |       |   |  |  |
|                   | EX-13-1LB                                       | 7.0                  | 2013-07-21               | 7.23                              | 0.45                               | 0.80                         | 20      | 4.2       | 9.0    | 2.9       | 4.0      | 65       | 35                      | -                 | -          | 0.39  | <0.15                 | <1.0     | 5.9     | 180            | -                    | -                   | <0.40     | 0.23    | 13       | 3.9    | 14     | 13     | <0.050  | 0.80       | 14     | <0.50    | <1.0   | <0.30    | 2.0   | <1.0    | 14       | 57    |       |       |   |  |  |
| EX-13-LB (7.5 m)  | 7.5   | 2013-07-31           | 7.45                     | 1.4                               | 1.7                                | 37                           | 10      | 24        | 4.1    | 68        | 100      | 28       | -                       | -                 | 0.26       | <0.15 | <1.0                  | 5.4      | 62      | -              | -                    | <0.40               | <0.10     | 6.5     | 3.5      | <5.0   | 2.9    | <0.050 | 0.57    | 9.7        | <0.50  | <1.0     | <0.30  | <1.0     | <1.0  | 9.0     | 24       |       |       |       |   |  |  |
| Test Pits         | TP#1  | 0-0.6                | 2013-07-23               | 7.61                              | 0.30                               | 0.93                         | 15      | 2.3       | 9.2    | 2.9       | 6.8      | 24       | 40                      | -                 | -          | 0.19  | <0.15                 | <1.0     | 6.6     | 2300           | 45                   | 16,000              | <0.40     | 0.26    | 6.8      | 2.7    | 10     | 61     | 0.12    | 0.68       | 7.0    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 77    |       |       |   |  |  |
|                   | TP#2  | 0-0.6                | 2013-07-23               | 7.76                              | 0.31                               | 0.81                         | 12      | 1.8       | 6.5    | 4.5       | 3.5      | 31       | 33                      | -                 | -          | 0.11  | <0.15                 | <1.0     | 6.4     | 1700           | 36                   | 5,600               | <0.40     | <0.10   | 5.3      | 3.0    | 6.2    | 18     | 0.064   | 0.61       | 7.1    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 29    |       |       |   |  |  |
|                   | TP#3  | 0-0.6                | 2013-07-23               | 7.17                              | 0.11                               | 1.1                          | 2.3     | 0.44      | 3.7    | 2.0       | <1.5     | 7.0      | 30                      | -                 | -          | 0.19  | <0.15                 | <1.0     | 6.5     | 1100           | 44                   | 3,700               | <0.40     | <0.10   | 6.8      | 2.7    | 8.0    | 18     | 0.061   | 0.98       | 6.9    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 10       | 23    |       |       |   |  |  |
|                   | TP#4  | 0-0.6                | 2013-07-23               | 7.60                              | 0.23                               | 1.0                          | 7.6     | 1.5       | 6.6    | 5.0       | <1.6     | 14       | 32                      | -                 | -          | 0.25  | <0.15                 | <1.0     | 5.0     | 1900           | 45                   | 6,700               | <0.40     | <0.10   | 5.3      | 2.2    | 6.1    | 18     | 0.072   | 0.50       | 5.2    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 9.7      | 29    |       |       |   |  |  |
|                   | TP#5  | 0-0.6                | 2013-07-23               | 7.53                              | 0.15                               | 0.82                         | 4.7     | 0.84      | 4.1    | 4.0       | <1.6     | 9.4      | 31                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 4.5     | 580            | 34                   | 1,900               | <0.40     | <0.10   | 4.6      | 1.9    | <5.0   | 9.1    | 0.057   | <0.40      | 4.9    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 8.6      | 17    |       |       |   |  |  |
|                   | TP#17   | 0-0.6                | 2013-07-23               | 6.67                              | 0.085                              | 0.71                         | 3.3     | 0.57      | 3.0    | 1.4       | <1.6     | 3.2      | 32                      | -                 | -          | 0.11  | <0.15                 | <1.0     | 7.9     | 740            | 40                   | 1,900               | <0.40     | 0.11    | 6.6      | 3.9    | 6.8    | 8.4    | 0.053   | 0.66       | 9.2    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 15       | 28    |       |       |   |  |  |
|                   | TP#18   | 0-0.6                | 2013-07-23               | 7.53                              | 0.22                               | 0.41                         | 15      | 1.7       | 4.1    | 4.5       | <2.1     | 15       | 42                      | -                 | -          | 0.34  | <0.15                 | <1.0     | 6.7     | 1100           | 22                   | 1,600               | <0.40     | 0.17    | 110      | 3.3    | 7.9    | 22     | 0.081   | 0.74       | 8.5    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 13       | 30    |       |       |   |  |  |
|                   | TP#21   | 0-1.0                | 2013-07-29               | 6.38                              | 0.29                               | 0.52                         | 7.0     | 2.3       | 3.1    | 0.66      | 12       | 8.0      | 25                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 6.1     | 200            | -                    | -                   | <0.40     | <0.10   | 9.1      | 3.1    | 6.0    | 5.9    | 0.051   | 0.65       | 8.8    | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 12       | 20    |       |       |   |  |  |
|                   | TP#22   | 0-1.0                | 2013-07-29               | 6.18                              | 0.073                              | 0.76                         | 1.4     | 0.44      | 2.1    | 0.54      | 2.1      | 2.9      | 26                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 7.2     | 150            | -                    | -                   | <0.40     | <0.10   | 21       | 3.2    | 5.8    | 4.6    | 0.053   | 1.0        | 15     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 12       | 21    |       |       |   |  |  |
|                   | TP#23   | 0-1.0                | 2013-07-29               | 6.08                              | 0.086                              | 0.71                         | 2.2     | 0.65      | 2.5    | 0.73      | 2.4      | 3.2      | 30                      | 12                | 88         | <0.10 | <0.15                 | <1.0     | 6.4     | 180            | -                    | -                   | <0.40     | <0.10   | 24       | 3.2    | 5.6    | 5.8    | <0.050  | 0.94       | 16     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 20    |       |       |   |  |  |
|                   | TP#24   | 0-1.0                | 2013-07-29               | 6.19                              | 0.085                              | 0.75                         | 2.1     | 0.59      | 2.7    | 0.71      | 2.1      | 3.0      | 31                      | -                 | -          | 0.15  | <0.15                 | <1.0     | 5.9     | 220            | -                    | -                   | <0.40     | <0.10   | 14       | 2.7    | 5.2    | 5.9    | <0.050  | 0.67       | 10     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 18    |       |       |   |  |  |
|                   | TP#25   | 0-1.0                | 2013-07-29               | 6.59                              | 0.31                               | 1.2                          | 5.6     | 2.0       | 7.0    | 1.0       | 1.5      | 8.8      | 28                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 6.5     | 320            | -                    | -                   | <0.40     | <0.10   | 18       | 2.6    | 5.8    | 5.2    | <0.050  | 1.4        | 13     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 18    |       |       |   |  |  |
|                   | TP#26   | 0-1.0                | 2013-07-29               | 7.04                              | 0.089                              | 0.63                         | 2.1     | 0.67      | 2.2    | 0.65      | 1.6      | 3.5      | 28                      | -                 | -          | <0.10 | <0.15                 | <1.0     | 6.9     | 190            | -                    | -                   | <0.40     | <0.10   | 13       | 3.0    | 6.0    | 5.6    | <0.050  | 0.70       | 11     | <0.50    | <1.0   | <0.30    | <1.0  | <1.0    | 11       | 21    |       |       |   |  |  |
|                   | TP#27   | 0-1.0                | 2013-07-29               | 7.45                              | 0.28                               |                              |         |           |        |           |          |          |                         |                   |            |       |                       |          |         |                |                      |                     |           |         |          |        |        |        |         |            |        |          |        |          |       |         |          |       |       |       |   |  |  |

**Table 3: Confirmatory Soil Analytical Results for Petroleum Hydrocarbon and Polycyclic Aromatic Hydrocarbon Parameters**

| GENERAL                        |                    |                       |                          | PETROLEUM HYDROCARBONS |            |            |              |          |            |            |              |               | POLYCYCLIC AROMATIC HYDROCARBONS |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |
|--------------------------------|--------------------|-----------------------|--------------------------|------------------------|------------|------------|--------------|----------|------------|------------|--------------|---------------|----------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|--------------|----------|-----------|---------|
| Location                       | Sample Designation | Sample Depth (m bgs)  | Sample Date (yyyy-mm-dd) | OVA (Field Screening)  | Benzene    | Toluene    | Ethylbenzene | Xylenes  | F1         | F2         | F3           | F4            | Acenaphthene                     | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Perylene | Pyrene    |         |
| Units                          |                    |                       |                          | ppm                    | mg/kg      | mg/kg      | mg/kg        | mg/kg    | mg/kg      | mg/kg      | mg/kg        | mg/kg         | mg/kg                            | mg/kg          | mg/kg      | mg/kg              | mg/kg          | mg/kg                | mg/kg                | mg/kg    | mg/kg                 | mg/kg        | mg/kg    | mg/kg                   | mg/kg       | mg/kg        | mg/kg    | mg/kg     | mg/kg   |
| <b>GUIDELINES</b>              |                    |                       |                          |                        |            |            |              |          |            |            |              |               |                                  |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |
| GNWT 2003 Residential/Parkland |                    | Surface (0-1.5 m bgs) |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>130</b> | <b>150</b> | <b>400</b>   | <b>2800</b>   | -                                | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |         |
|                                |                    | Subsurface            |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>230</b> | <b>150</b> | <b>2,500</b> | <b>10,000</b> | -                                | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |         |
| <b>SOILS DATA</b>              |                    |                       |                          |                        |            |            |              |          |            |            |              |               |                                  |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |         |
| North Wall                     | EX-13-DN (0-1 m)   | 0-1.0                 | 2013-07-22               | 35                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-DN (4 m)     | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | <0.0050  | <0.0050   | <0.0050 |
|                                | EX-13-DN (7 m)     | 7.0                   | 2013-07-22               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-EN (3 m)     | 3.0                   | 2013-07-22               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-1EN (4 m)    | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 29         | 650          | 230           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | 0.0060                  | <0.0050     | <0.0050      | <0.0050  | 0.0059    | 0.0084  |
|                                | EX-13-2EN (4 m)    | 4.0                   | 2013-07-19               | 15                     | <0.0050    | <0.020     | 0.028        | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | 0.0410       | <0.0050  | 0.0250    | <0.0050 |
|                                | EX-13-EN (7 m)     | 7.0                   | 2013-07-22               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 12         | 100          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |
|                                | EX-13-3LN          | 4.0                   | 2013-08-01               | 80                     | 0.075      | 0.12       | 0.076        | 0.450    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |
|                                | EX-13-4LN          | 7.0                   | 2013-08-01               | 10                     | 0.040      | 0.33       | 0.16         | 0.800    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |
|                                | EX-13-5LN (4 m)    | 4.0                   | 2013-08-06               | 5                      | 0.019      | 0.034      | 0.023        | 0.110    | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         | -       |
| EX-13-5LN (7 m)                | 7.0                | 2013-08-06            | 10                       | 0.039                  | 0.28       | 0.076      | 0.450        | <12      | <10        | <50        | <50          | -             | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
| West Wall                      | EX-13-AW (3 m)     | 3.0                   | 2013-07-22               | 40                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | 0.0065   | <0.0050   |         |
|                                | EX-13-AW (4 m)     | 4.0                   | 2013-07-19               | 45                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | <0.0050  | 0.0370    | <0.0050 |
|                                | EX-13-AW (7 m)     | 7.0                   | 2013-07-22               | 15                     | 0.0610     | 0.080      | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-2AW (2 m)    | 2.0                   | 2013-08-09               | 5                      | <0.010     | <0.040     | <0.020       | <0.081   | <24        | <10        | 390          | <100          | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-2AW (5 m)    | 5.0                   | 2013-08-09               | 20                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-BW (1 m)     | 1.0                   | 2013-07-22               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | 60           | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-BW (4 m)     | 4.0                   | 2013-07-19               | 20                     | -          | -          | -            | -        | -          | -          | -            | -             | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | 0.0210   | <0.0050   |         |
|                                | EX-13-2BW (4 m)    | 4.0                   | 2013-08-09               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-BW (6 m)     | 6.0                   | 2013-07-22               | 10                     | 0.0084     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-CW (2 m)     | 2.0                   | 2013-07-29               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | 74           | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-CW (4 m)     | 4.0                   | 2013-07-19               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | <0.0050                          | <0.0050        | <0.0040    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | <0.0050     | <0.0050      | <0.0050  | 0.0094    | <0.0050 |
|                                | EX-13-CW (5 m)     | 5.0                   | 2013-07-22               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-2CW (3 m)    | 3.0                   | 2013-08-09               | 25                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-DW (1 m)     | 1.0                   | 2013-07-29               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
|                                | EX-13-2DW (3 m)    | 3.0                   | 2013-08-09               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |         |
| EX-13-DW (4 m)                 | 4.0                | 2013-07-19            | -                        | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | <0.0050       | <0.0050                          | <0.0040        | <0.0050    | <0.0050            | <0.0050        | <0.0050              | <0.0050              | <0.0050  | <0.0050               | <0.0050      | <0.0050  | <0.0050                 | 0.0056      | 0.0060       | 0.0250   | <0.0050   |         |
| EX-13-DW (6 m)                 | 6.0                | 2013-07-22            | 15                       | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | -             | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
| South Wall                     | EX-13-2AS (1 m)    | 1.0                   | 2013-08-09               | 0                      | <0.0050    | 0.034      | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
|                                | EX-13-AS (4 m)     | 4.0                   | 2013-07-28               | 240                    | <0.0050    | <0.020     | 0.011        | <0.040   | <12        | 63         | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
|                                | EX-13-HS (3 m)     | 3.0                   | 2013-08-14               | 10                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
|                                | EX-13-HS (5 m)     | 5.0                   | 2013-08-14               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
|                                | EX-13-2IS (3.5 m)  | 3.5                   | 2013-08-18               | 10                     | 0.022      | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |
|                                | EX-13-2IS (6 m)    | 6.0                   | 2013-08-18               | 45                     | 0.18       | 0.034      | 0.20         | 0.17     | <12        | <10        | <50          | <50           | -                                | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |         |

**Notes:**  
1. m bgs = metres below ground surface  
2. Current and/or applicable guidelines are bolded  
■ (yellow highlight) = Exceeds applicable guidelines  
3. View analytical report for more comprehensive results  
4. Government of Northwest Territories (GNWT), 2003. Environmental Guideline for Contaminated Site Remediation. November 2003.



**Table 3: Confirmatory Soil Analytical Results for Petroleum Hydrocarbon and Polycyclic Aromatic Hydrocarbon Parameters**

| GENERAL                        |                          |                       |                          | PETROLEUM HYDROCARBONS |            |            |              |          |            |            |              | POLYCYCLIC AROMATIC HYDROCARBONS |              |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |       |
|--------------------------------|--------------------------|-----------------------|--------------------------|------------------------|------------|------------|--------------|----------|------------|------------|--------------|----------------------------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|--------------|----------|-----------|-------|
| Location                       | Sample Designation       | Sample Depth (m bgs)  | Sample Date (yyyy-mm-dd) | OVA (Field Screening)  | Benzene    | Toluene    | Ethylbenzene | Xylenes  | F1         | F2         | F3           | F4                               | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | Phenanthrene | Perylene | Pyrene    |       |
| Units                          |                          |                       |                          | ppm                    | mg/kg      | mg/kg      | mg/kg        | mg/kg    | mg/kg      | mg/kg      | mg/kg        | mg/kg                            | mg/kg        | mg/kg          | mg/kg      | mg/kg              | mg/kg          | mg/kg                | mg/kg                | mg/kg    | mg/kg                 | mg/kg        | mg/kg    | mg/kg                   | mg/kg       | mg/kg        | mg/kg    | mg/kg     | mg/kg |
| <b>GUIDELINES</b>              |                          |                       |                          |                        |            |            |              |          |            |            |              |                                  |              |                |            |                    |                |                      |                      |          |                       |              |          |                         |             |              |          |           |       |
| GNWT 2003 Residential/Parkland |                          | Surface (0-1.5 m bgs) |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>130</b> | <b>150</b> | <b>400</b>   | <b>2800</b>                      | -            | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |       |
|                                |                          | Subsurface            |                          | -                      | <b>0.5</b> | <b>0.8</b> | <b>1.2</b>   | <b>1</b> | <b>230</b> | <b>150</b> | <b>2,500</b> | <b>10,000</b>                    | -            | -              | -          | <b>1</b>           | <b>0.7</b>     | -                    | <b>1</b>             | -        | <b>1</b>              | -            | -        | <b>1</b>                | <b>0.6</b>  | <b>5</b>     | -        | <b>10</b> |       |
| East Wall                      | EX-13-I STEPOUT (2 m)    | 2.0                   | 2013-08-06               | 30                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2IE (6 m)          | 6.0                   | 2013-08-18               | 5                      | 0.041      | 0.029      | 0.10         | 0.16     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3IE (3 m)          | 3.0                   | 2013-08-22               | 10                     | 0.12       | 0.034      | 0.042        | 0.2      | <12        | 15         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-3IE STEPOUT (3 m)  | 3.0                   | 2013-08-22               | 25                     | 0.02       | 0.079      | 0.022        | 0.14     | <12        | 14         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-1J STEPOUT (1.5 m) | 1.5                   | 2013-08-06               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-2J STEPOUT (1.5 m) | 1.5                   | 2013-08-06               | 20                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 38         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-4JE (4 m)          | 4.0                   | 2013-08-06               | 0                      | 0.045      | 0.18       | 0.076        | 0.38     | <12        | <10        | <50          | <50                              | -            | 0.076          | 0.38       | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-4JE (6 m)          | 6.0                   | 2013-08-06               | 25                     | 0.014      | 0.087      | 0.047        | 0.26     | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (2 m)          | 2.0                   | 2013-08-08               | 5                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (4 m)          | 4.0                   | 2013-08-08               | 15                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 11         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-5JE (1 m TRENCH)   | Wall Scrape           | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (2 m)          | 2.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | 15         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (4 m)          | 4.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (6 m)          | 6.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-6KE (1 m TRENCH)   | Wall Scrape           | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-7KE (2 m)          | 2.0                   | 2013-08-08               | 15                     | 0.013      | 0.037      | 0.084        | 0.77     | 16         | 130        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-7KE (4 m)          | 4.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
|                                | EX-13-7KE (6 m)          | 6.0                   | 2013-08-08               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        | -         |       |
| EX-13-7KE (1 m TRENCH)         | Wall Scrape              | 2013-08-08            | 120                      | <0.0050                | <0.020     | <0.010     | <0.040       | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-1L STEPOUT (1.25 m)      | 1.25                     | 2013-08-06            | 5                        | <0.0050                | 0.030      | <0.010     | <0.040       | <12      | <23        | <120       | <120         | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-2L STEPOUT (1 m)         | 1.0                      | 2013-08-06            | 35                       | <0.012                 | 0.63       | <0.023     | <0.093       | <28      | 18         | 140        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-3LE (4 m)                | 4.0                      | 2013-08-06            | 20                       | 0.015                  | 0.034      | 0.023      | 0.130        | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| EX-13-3LE (7 m)                | 7.0                      | 2013-08-06            | 10                       | 0.019                  | 0.091      | 0.027      | 0.160        | <12      | <10        | <50        | <50          | -                                | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
| Base                           | EX-13-AB (7 m)           | 7.0                   | 2013-07-28               | 35                     | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-BB (7 m)           | 7.0                   | 2013-07-28               | 10                     | 0.0210     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-CB (7 m)           | 7.0                   | 2013-07-28               | 20                     | <0.0050    | <0.020     | 0.014        | <0.040   | <12        | <10        | <50          | <50                              | -            | 0.014          | <0.040     | <12                | <10            | <50                  | <50                  | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-1DB                | 7.0                   | 2013-07-21               | -                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-1EB                | 7.0                   | 2013-07-21               | -                      | <0.0050    | <0.020     | 0.014        | 0.150    | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-FB (7 m)           | 7.0                   | 2013-07-28               | 95                     | <0.0050    | 0.038      | 0.078        | 0.800    | 41         | 110        | 120          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-GB (7 m)           | 7.0                   | 2013-07-28               | 35                     | 0.0130     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-HB (7 m)           | 7.0                   | 2013-07-28               | 80                     | 0.0930     | 0.027      | 0.016        | 0.071    | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-2HB (7 m)          | 7.0                   | 2013-08-14               | 10                     | 0.0089     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-IB (7 m)           | 7.0                   | 2013-07-28               | 45                     | 0.1200     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-2IB (7 m)          | 7.0                   | 2013-08-18               | 0                      | <0.0050    | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-2JB (6.5 m)        | 6.5                   | 2013-08-06               | 0                      | 0.016      | 0.032      | <0.010       | <0.040   | <12        | 11         | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-KB (7 m)           | 7.0                   | 2013-07-28               | 35                     | 0.0072     | <0.020     | <0.010       | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |
|                                | EX-13-LB (7.5 m)         | 7.5                   | 2013-07-31               | -                      | <0.0050    | <0.020     | 0.015        | <0.040   | <12        | <10        | <50          | <50                              | -            | -              | -          | -                  | -              | -                    | -                    | -        | -                     | -            | -        | -                       | -           | -            | -        |           |       |

Notes:  
1. m bgs = metres below ground surface  
2. Current and/or applicable guidelines are bolded  
■ (yellow highlight) = Exceeds applicable guidelines  
3. View analytical report for more comprehensive results  
4. Government of Northwest Territories (GNWT), 2003. Environmental Guideline for Contaminated Site Remediation. November 2003.



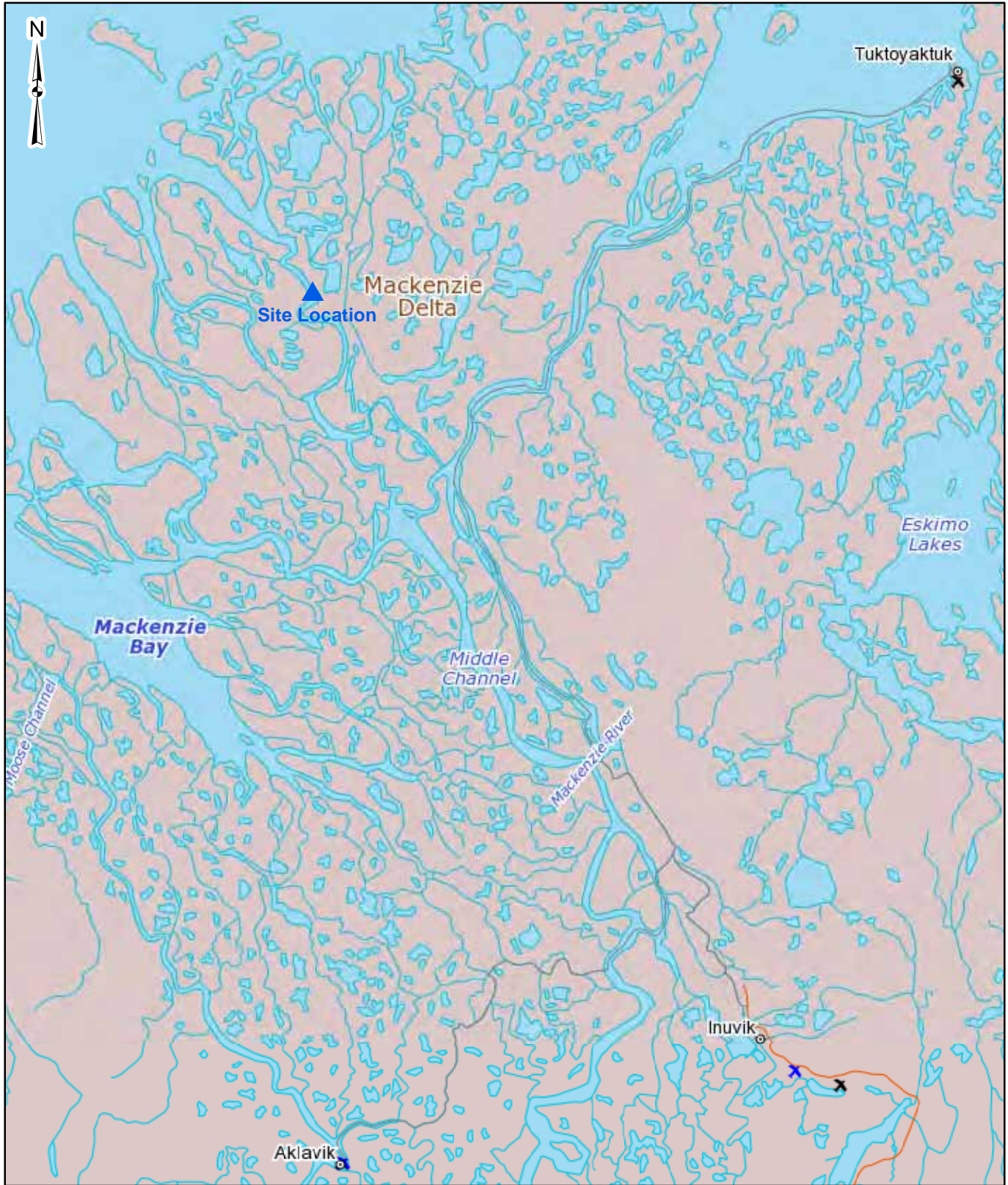


Table 5: Analytical Results for Lagoon Discharge Water

| GENERAL           |                                  |                             |       |                              |             |         |                               |                |                 |                  |
|-------------------|----------------------------------|-----------------------------|-------|------------------------------|-------------|---------|-------------------------------|----------------|-----------------|------------------|
| Location          | Sample Designation               | Sample Date<br>(yyyy-mm-dd) | Units |                              |             |         |                               |                |                 |                  |
|                   |                                  |                             | pH    | Total Suspended Solids (TSS) | Phosphorous | Ammonia | Total Residual Chlorine (TRC) | Oil and Grease | Fecal Coliforms | BOD <sub>5</sub> |
| GUIDELINES        |                                  |                             |       |                              |             |         |                               |                |                 |                  |
| <b>NWTWB 2012</b> | Water License N7L1-1834          |                             | -     | 70.0                         | -           | -       | 0.1                           | 5.0            | 10000           | 70.0             |
| <b>AENV 1999</b>  | Surface Water Quality Guidelines |                             | 6-8   | -                            | -           | 1.37    | -                             | -              | -               | -                |
| SOIL DATA         |                                  |                             |       |                              |             |         |                               |                |                 |                  |
| Lagoon            | Camp Farewell                    | 2013-06-12                  | 7.86  | 18.0                         | 0.07        | <0.050  | <0.10                         | <1.0           | <1              | 4                |
|                   | #2                               | 2013-07-26                  | -     | 8.0                          | -           | -       | 0.06                          | <20            | -               | <5.0             |

- Notes:
1. Current and/or applicable guidelines are bolded  
  (yellow highlight) = Exceeds applicable guidelines
  2. View analytical report for more comprehensive results
  3. Northwest Territories Water Board (NWTWB), 2012. Guidelines specified in Water License #N7L1-1834.
  4. Alberta Environment Surface Water Quality Guidelines for Use in Alberta, November 1999.

## FIGURES



**NOT FOR CONSTRUCTION**

To be read with IEG Consultants Ltd. report dated April 2014



**NOTES:**

1. HORIZONTAL DATUM: NAD83
2. GRID ZONE: UTM Zone 8N
3. IMAGE SOURCE: The Toporama Web Map Service, [http://wms.ess-ws.nrcan.gc.ca/wms/toporama\\_en](http://wms.ess-ws.nrcan.gc.ca/wms/toporama_en), Government of Canada, Natural Resources Canada, Earth Sciences Sector

CLIENT



**Shell Canada Energy**



PROJECT

Camp Farewell Lagoon Remediation

TITLE

Camp Farewell Site Location Map

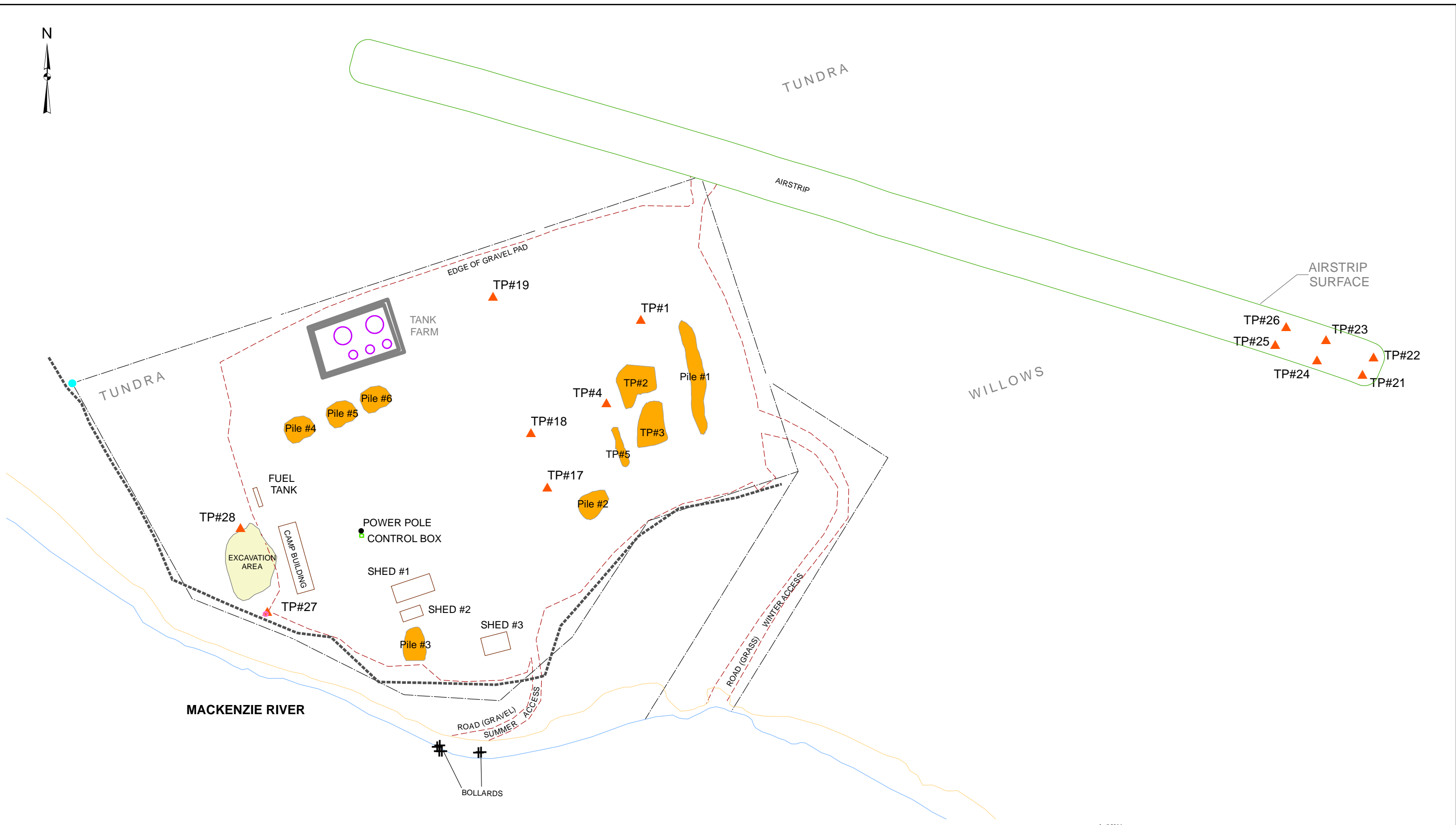
SCALE  
1:700,000

PROJECT No.  
A04012A05

FIG No.  
1

Time: 13:40:39 PM  
 Date: April 02, 2014  
 File: Z:\A\CGY\Alberta\A04012A05-Shell\Canada - Camp Farewell Sediment Sampling\400 Drawings\410 Drawings\A04012A05 - Figure 1 - Site Location - Map - 140392.mxd

File: Z:\ACGY\Alberta\A04012A05-Shell\Canada - Camp Farewell Sediment Sampling\A00 Drawings\A04012A05\_Figure2\_Site\_Plan\_Rev1\_140317.mxd Date: April 02, 2014 Time: 13:46:03 PM Creator: iflew



**Legend**

- ▲ Test Pit
- Sand
- Soil Piles
- Boundary
- Top of Bank
- Building
- Edge of Gravel
- Airstrip
- River



NOT FOR CONSTRUCTION

NOTES:  
 1. HORIZONTAL DATUM: NAD83  
 2. GRID ZONE: UTM8N  
 3. SOURCE: Site survey plan prepared for Shell Canada Limited by Inukshuk Geomatics Inc.; original scale 1:2000.

CLIENT

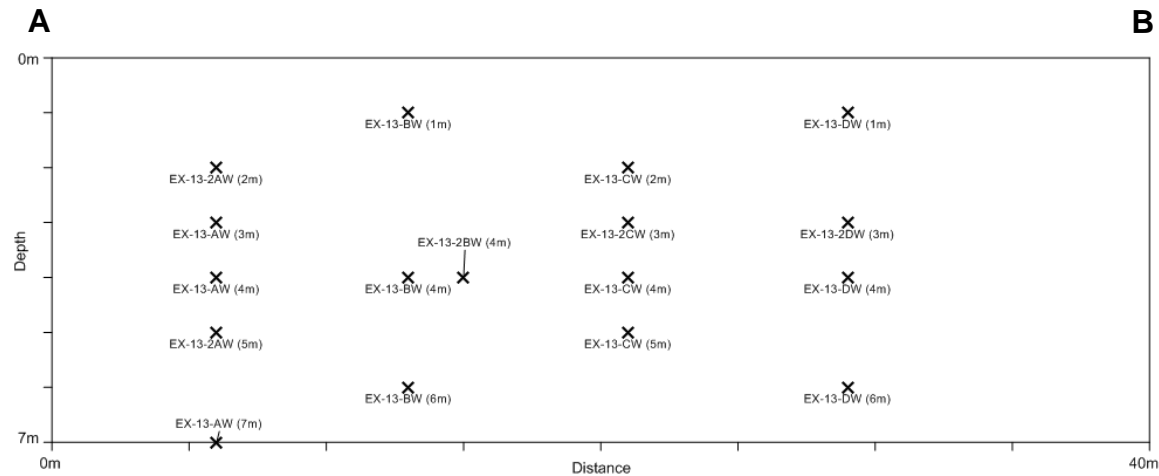
|                    |                                  |   |
|--------------------|----------------------------------|---|
| <b>PROJECT</b>     | Camp Farewell Lagoon Remediation |   |
| <b>TITLE</b>       | Camp Farewell Site Plan          |   |
| <b>SCALE</b>       | 1:2,500                          |   |
| <b>PROJECT No.</b> | A04012A05                        |   |
| <b>FIG No.</b>     |                                  | 2 |

To be read with IEG Consultants Ltd. report dated April 2014

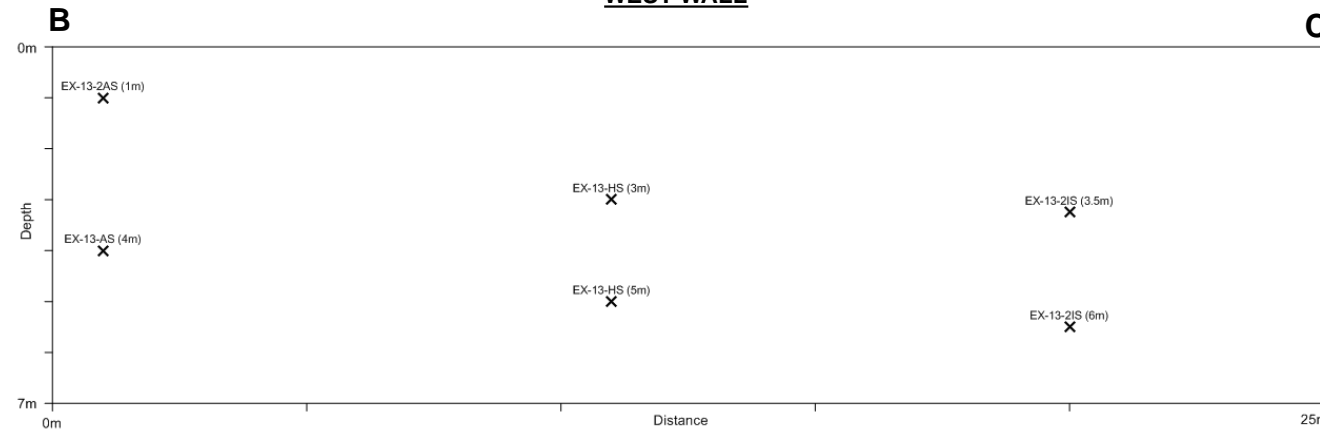




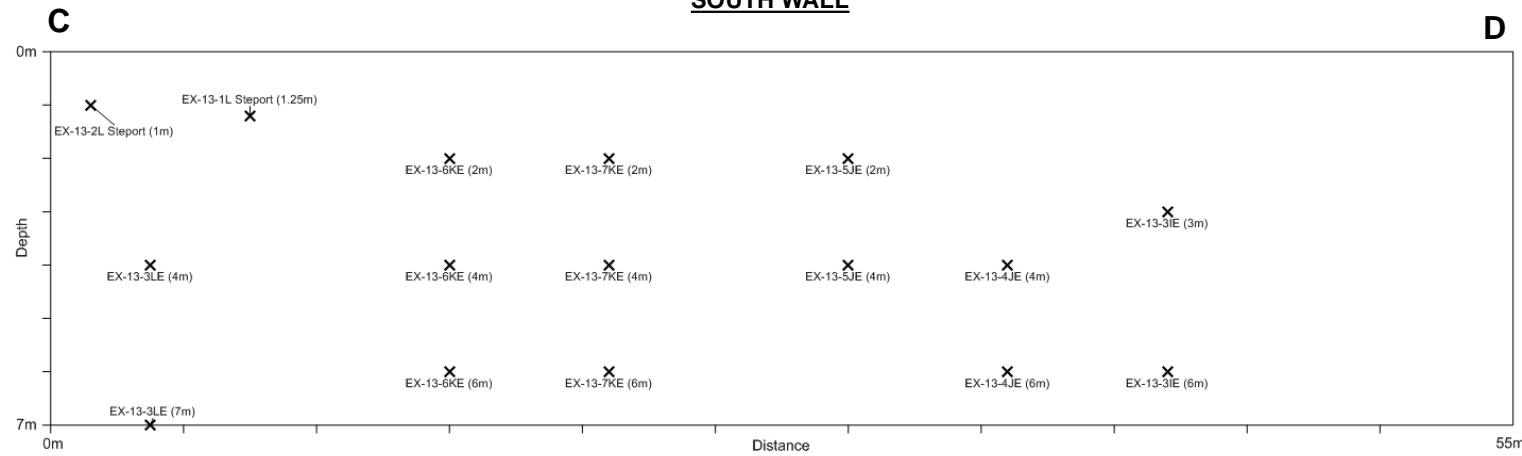




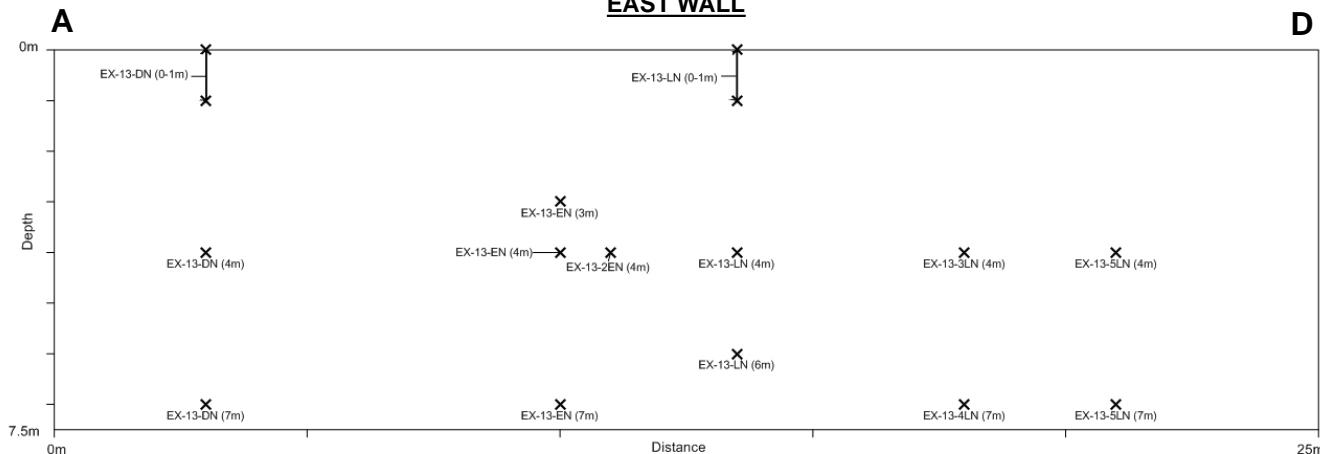
**WEST WALL**



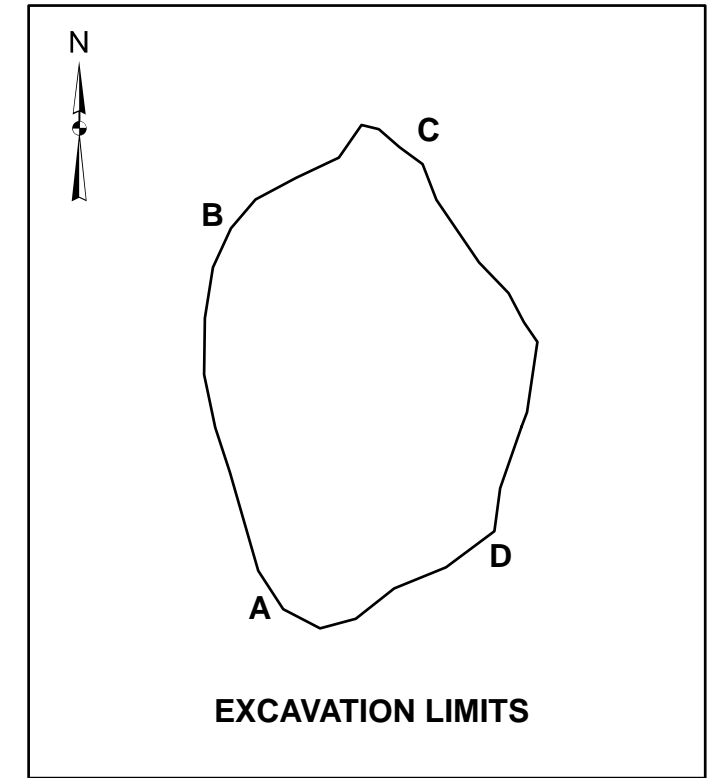
**SOUTH WALL**



**EAST WALL**



**NORTH WALL**



**EXCAVATION LIMITS**

|  |                |   |              |
|--|----------------|---|--------------|
| <b>NOTES:</b><br>1. HORIZONTAL DATUM: NAD83<br>2. GRID ZONE: UTM8N<br>3. SOURCE: Site survey plan prepared for Shell Canada Limited by Inukshuk Geomatics Inc.; original scale 1:2000. | CLIENT<br>     | PROJECT<br>Camp Farewell Lagoon Remediation |              |
|  |                | TITLE<br>Excavation Wall Details            |              |
|  | SCALE<br>1:800 | PROJECT No.<br>A04012A05                    | FIG No.<br>5 |

To be read with IEG Consultants Ltd. report dated April 2014

# APPENDIX I

## Permits and Licenses

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July 18, 2012

Mr. Randal Warren  
Manager; DAR and Drilling Waste  
Projects and Technology  
Shell Canada Energy  
400- 4th Avenue S.W.  
P.O. Box 100, Station M  
Calgary, Alberta T2P 2H5

Dear Mr. Warren:

**Re: Issuance of a Type “B” Water Licence- Camp Farewell**

Attached is Water Licence N7L1-1834 granted by the Northwest Territories Water Board (the Board) in accordance with the *Northwest Territories Waters Act*. A copy of this Licence has been filed in the Public Registry at the Board offices in Yellowknife and in Inuvik. Water Licence N7L1-1834 has been approved for a period of five years commencing July 18, 2012 and expiring July 17, 2017. Also attached are the general procedures for the administration of Licences in the Northwest Territories. Please review these carefully and address any questions to one of the Board offices.

Please be advised that this letter, with attached procedures, all inspection reports and correspondence related thereto are part of the Board public registry and are intended to keep all interested parties informed of the manner in which the Licence requirements are being met. All public registry material will be considered if an amendment to the Licence or its renewal is requested.

In accordance with the Northwest Territories Water Regulations (NTWR) section 6(1) and 9(1)(b) there will be a requirement for a further payment of the water use fee based on the approved water use of 150 cubic metres per day. The annual water use fee has been calculated to be \$547.50 and is payable to the Receiver General of Canada on the anniversary of the date of issuance of the licence as per section 9(6)(b)(ii) of the NTWR. At the time of your Water Licence application there was a payment of \$30.00 for the first year fee payment and there remains a balance of \$517.50 to be paid for the water use fee at the time the Licence is issued.

Please note for future Water Licence applications in accordance with NTWR section 6(1) an application for a Licence or for the amendment or renewal of a Licence shall be accompanied by a deposit equal to any water use fee that would be payable in respect of the first year of the Licence that is being applied for.

Please read all the conditions carefully and note that in accordance with the attached Water Licence Part B, condition 10, a security deposit in the amount of \$2,000,000.00 shall be posted with the Minister and copied to the Board prior to the start of the operation pursuant to section 17 of the *Northwest*

*Territories Waters Act.* Submit payment of the security, made out to the Receiver General for Canada in the amount of \$2,000,000.00, to: Aboriginal Affairs and Northern Development Canada, P.O. Box 1500, Yellowknife, NT, X1A 2R3 Attention: Robert Jenkins.

Supplemental information to be submitted by Licensee as required through Licence conditions:

- post and maintain security deposit (by August 17, 2012)
- an Annual Report (by March 31, 2013-2017);
- a map or drawing of SNP sampling locations (by August 17, 2012)
- post signs to identify SNP sampling stations (by August 17, 2012)
- an updated operation and maintenance plan for the Waste Disposal Facilities (by August 17, 2012)
- an updated Emergency Response & Spill Contingency Plan (by August 17, 2012)
- an updated Abandonment and Restoration Plan (by July 17, 2013)
- submit to an Analyst for approval a Quality Assurance/Quality Control Plan (by August 17, 2012)

The full cooperation of Shell Canada Energy is anticipated and appreciated.

Should you have any further questions or concerns, please communicate with the Northwest Territories Water Board by telephone at (867) 678-2942 or via e-mail at [info@nwtwb.com](mailto:info@nwtwb.com).

Sincerely,



Eddie Dillon  
Chairperson  
NWT Water Board

Attached: Water Licence N7L1-1834  
General Procedures for the administration of licences issued under the *Northwest Territories Waters Act* in the Northwest Territories

Distribution: Conrad Baetz, AANDC-NMDO  
Robert Jenkins, AANDC-WRD  
Krista Beavis, Klohn Crippen Berger  
Patrick Clancy, GNWT-ENR  
Rick Walbourne, DFO  
Stacey LeBlanc, EC



## **GENERAL PROCEDURES FOR THE ADMINISTRATION OF LICENCES ISSUED UNDER THE *NORTHWEST TERRITORIES WATERS ACT* IN THE NORTHWEST TERRITORIES**

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1. At the time of issuance, a copy of the Licence is placed on the Northwest Territories Water Board public registry in the Yellowknife and Inuvik Offices, and is then available to the public.
2. To enforce the terms and conditions of the Licence, the Minister of Aboriginal Affairs and Northern Development Canada has appointed Inspectors in accordance with Section 35(1) of the *Northwest Territories Waters Act*. The Inspectors coordinate their activities with officials of the Water Resources Division of Aboriginal Affairs and Northern Development Canada. The Inspector responsible for Licence N7L1-1834 is located in the North Mackenzie District Office in Inuvik.
3. To keep the Northwest Territories Water Board and members of the public informed of the Licensee's conformity to Licence conditions, the Inspectors prepare reports which detail observations on how each item in the Licence has been met. These reports are forwarded to the Licensee with a covering letter indicating what action, if any, should be taken. The inspection reports and covering letters are placed on the Northwest Territories Water Board public registry, as are any responses received from the Licensee pertaining to the inspection reports. It is therefore of prime importance that you react in all areas of concern regarding all inspection reports so that these concerns may be clarified.
4. If the renewal of Licence N7L1-1834 is contemplated it is the responsibility of the Licensee to apply to the Northwest Territories Water Board for renewal of the Licence. The past performance of the Licensee, new documentation and information, and points raised during a public hearing, if required, will be used to determine the terms and conditions of any Licence renewal. Please note that if the Licence expires and another has not been issued, then water and Waste disposal must cease, or you, the Licensee, would be in contravention of the *Northwest Territories Waters Act*. An application for renewal of Licence N7L1-1834 should be made at least eight (8) months in advance of the Licence expiry date.
5. If, for some reason, Licence N7L1-1834 requires amendment, then a public hearing may be required. You are reminded that applications for amendments should be submitted as soon as possible to provide the Northwest Territories Water Board with ample time to go through the amendment process. The process may take up to six (6) months or more depending on the scope of the amendment requested.

6. Specific clauses of your Licence make reference to the Board, Analyst or Inspector. The contact person, address, phone and fax number of each is:

Board: Executive Director  
Northwest Territories Water Board  
P.O. Box 2531  
Inuvik, NT X0E 0T0  
Phone No: (867) 678-2942  
Fax No: (867) 678-2943

Analyst: Analyst  
Taiga Environmental Laboratory  
Aboriginal Affairs and Northern Development Canada  
P.O. Box 1500, 4601 – 52<sup>nd</sup> Avenue  
Yellowknife, NT X1A 2R3  
Phone No: (867) 669-2788  
Fax No: (867) 669-2718

Inspector: Water Resource Officer  
North Mackenzie District Office  
Aboriginal Affairs and Northern Development Canada  
P.O. Box 2100  
Inuvik, NT X0E 0T0  
Phone No: (867) 777-8900  
Fax No: (867) 777-2090

7. Your Licence requires a security deposit be submitted. Should the security deposit be submitted in the form of a "letter of credit", recommended wording is outlined below. It is advised that a "draft" letter of credit be forwarded to Water Resources Division for review. The contact person, address, phone and fax number of the individual administering security deposits is:

Manager  
Water Resources Division  
Aboriginal Affairs and Northern Development Canada  
P.O. Box 1500, 4923 – 52<sup>nd</sup> Street  
YELLOWKNIFE, NT X1A 2R3  
Phone No: (867) 669-2654  
Fax No: (867) 669-2716

[BANK

ADDRESS]

**IRREVOCABLE LETTER OF CREDIT**

[The term “DOCUMENTARY CREDIT” may also be used instead of “Letter of Credit”]

**DATE OF ISSUE:** [Date]      **OUR REFERENCE NUMBER:** [Bank’s reference number]

**AMOUNT:** CAD\$#####.00

**MAXIMUM** #####.00

**CANADIAN DOLLARS ONLY**

**APPLICANT:**

[“Customer” can be used instead of “Applicant”]

[Company’s Name]

[Company’s Address]

**BENEFICIARY:**

RECEIVER GENERAL FOR CANADA

ON BEHALF OF THE MINISTER OF

INDIAN AFFAIRS AND NORTHERN

DEVELOPMENT

4923 – 52<sup>nd</sup> STREET, 2<sup>nd</sup> FLOOR

P.O. BOX 1500

YELLOWKNIFE, NT X1A 2R3

ATTENTION: REGIONAL DIRECTOR GENERAL  
DIAND - NT REGION

**RE: SECURITY PURSUANT TO** [the Water Licence Type and Number]

AT THE REQUEST AND FOR THE ACCOUNT OF [Company’s Name] (THE “APPLICANT”), WE, [Bank’s Name], HEREBY ESTABLISH IN YOUR FAVOUR OUR IRREVOCABLE LETTER OF CREDIT NO. [Bank’s Reference Number] (“CREDIT”) FOR SUMS NOT EXCEEDING IN THE AGGREGATE [Amount of Security required stated in Canadian Dollars].

THIS CREDIT IS AVAILABLE WITH US FOR DRAWING AT SIGHT, WITHOUT ENQUIRY AS TO WHETHER YOU HAVE RIGHT AS BETWEEN YOURSELF AND THE APPLICANT TO MAKE SUCH DEMAND AND WITHOUT RECOGNIZING ANY CLAIM OF THE APPLICANT, AGAINST PRESENTATION TO US, BY YOU OR YOUR DULY AUTHORIZED REPRESENTATIVE OR AGENT, OF THE FOLLOWING DOCUMENTS:

1. A SIGHT DRAFT DRAWN ON [Bank’s Name and Address of the Branch that the security can be drawn at, usually one of the Bank’s larger commercial banking centres]; AND
2. THE ORIGINAL OF THIS IRREVOCABLE LETTER OF CREDIT NO. [Bank’s Reference Number] FOR ENDORSEMENT OF PAYMENT THEREON; AND

3. A STATEMENT SIGNED BY AN OFFICIAL OF THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT CERTIFYING

- A) THAT THE SIGNATORY IS AN OFFICIAL OF THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT AND HAS AUTHORITY TO SIGN THE STATEMENT ON BEHALF OF THE MINISTER OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT (THE "MINISTER"), AND
- B) EITHER
- I THAT THE MINISTER IS ENTITLED TO APPLY THE AMOUNT DRAWN, BEING ALL OR PART OF THE SECURITY POSTED AND MAINTAINED PURSUANT TO [the Water Licence Type and Number] ISSUED BY THE NORTHWEST TERRITORIES WATER BOARD, WHETHER AS ORIGINALLY ISSUED OR AS AMENDED OR RENEWED FROM TIME TO TIME, OR
- II THAT THIS LETTER OF CREDIT IS DUE TO EXPIRE IN THIRTY (30) DAYS OR LESS AND THAT THE APPLICANT HAS NOT REPLACED THIS CREDIT BY POSTING WITH THE MINISTER OTHER SECURITY SATISFACTORY TO THE MINISTER.

PARTIAL DRAWINGS ARE PERMITTED.

THIS CREDIT IS EFFECTIVE FROM [Time] .AM. ON [Effective Date as required by Water Licence] AND SHALL EXPIRE AT OUR COUNTERS AT [Time] P.M. [Expiry Date] (THE "INITIAL EXPIRATION DATE"). THIS CREDIT SHALL BE RENEWED AUTOMATICALLY FOR AN ADDITIONAL ONE-YEAR PERIOD FROM THE INITIAL EXPIRATION DATE, AND FOR AN ADDITIONAL ONE-YEAR PERIOD FROM EACH FUTURE EXPIRATION DATE, UNLESS AT LEAST NINETY (90) DAYS PRIOR TO THE OPERATIVE EXPIRATION DATE WE NOTIFY YOU IN WRITING BY REGISTERED MAIL OR COURIER THAT WE ELECT NOT TO CONSIDER THIS CREDIT RENEWED FOR SUCH ADDITIONAL PERIOD.

WE HEREBY AGREE THAT ALL DRAFTS DRAWN UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT SHALL BE DULY HONOURED BY US IF PRESENTED FOR PAYMENT ON OR BEFORE THE OPERATIVE EXPIRATION DATE.

EXCEPT SO FAR AS IS OTHERWISE EXPRESSLY STATED HEREIN, THIS CREDIT IS SUBJECT TO THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY CREDITS (1993 REVISION), INTERNATIONAL CHAMBER OF COMMERCE, PUBLICATION NO. 500. NOTWITHSTANDING ARTICLE 17 OF SAID PUBLICATION, IS THIS CREDIT EXPIRES DURING AN INTERRUPTION OF BUSINESS AS DESCRIBED IN ARTICLE 17, WE AGREE TO EFFECT PAYMENT IF THIS CREDIT IS

DRAWN ON US WITHIN FIFTEEN (15) DAYS AFTER THE RESUMPTION OF BUSINESS.

[Bank's Name]

\_\_\_\_\_  
[Official's Name and Position]

\_\_\_\_\_  
[Official's Name and Position]

# NORTHWEST TERRITORIES WATER BOARD

Pursuant to the *Northwest Territories Waters Act* and Regulations the Northwest Territories Water Board, hereinafter referred to as the Board, hereby grants to

SHELL CANADA ENERGY  
(Licensee)  
400- 4 Avenue S.W., P.O. Box 100, Station M  
of CALGARY, ALBERTA T2P 2H5  
(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water subject to the restrictions and conditions contained in the *Northwest Territories Waters Act* and Regulations made thereunder and subject to and in accordance with the conditions specified in this Licence.

Licence Number N7L1-1834

Licence Type "B"

Water Management Area NORTHWEST TERRITORIES 07

Location Within a two kilometre radius of  
Latitude 69°12'30" N.  
Longitude 135°06'04" W.  
MACKENZIE RIVER DELTA, N.W.T

Purpose TO USE WATER AND DISPOSE OF WASTE  
FOR INDUSTRIAL UNDERTAKINGS AND  
ASSOCIATED USES

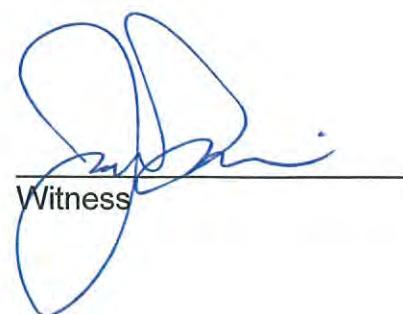
Description OIL AND GAS EXPLORATION  
AND DEVELOPMENT

Quantity of Water Not  
To Be Exceeded 150 CUBIC METRES DAILY

Effective Date of Licence JULY 18<sup>TH</sup>, 2012

Expiry Date of Licence JULY 17<sup>TH</sup>, 2017

This Licence issued and recorded at Inuvik includes and is subject to the annexed conditions.

  
Witness

**NORTHWEST TERRITORIES WATER BOARD**

  
Chairperson (Eddie Dillon)



**PART A: SCOPE AND DEFINITIONS**

**1. Scope**

- a) This Licence entitles Shell Canada Energy to use water and dispose of Waste as an industrial undertaking associated with oil and gas exploration and development in the Mackenzie Delta at Farewell Camp and Stockpile Site (Camp Farewell) located at Latitude 69°12'30" North, and Longitude 135°06'04" West, Northwest Territories;
- b) This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the *Northwest Territories Waters Act*, or other statutes imposing more stringent conditions relating to the quantity or type of Waste that may be so deposited or under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be automatically amended to conforming to such Regulations; and
- c) Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.
- d) This Licence is issued subject to the conditions contained herein with respect to the use of Waters as prescribed in Section 8 of the *Act* and the deposit of Waste to any Waters as prescribed in Section 9 of the *Act*.

**2. Definitions**

In this Licence: **N7L1-1834**

“**Act**” means the *Northwest Territories Waters Act*;

“**Analyst**” means an Analyst designated by the Minister under Section 35(1) of the *Northwest Territories Waters Act*;

**“Average Concentration”** means the discrete average of up to four (4) consecutive analytical results submitted to the Board in accordance with the sampling and analysis requirements specified in the “Surveillance Network Program”;

**“Board”** means the Northwest Territories Water Board established under Section 10 of the *Northwest Territories Waters Act*;

**“Freeboard”** means the vertical distance between water line and the lowest elevation of the effective water containment crest on a dam or dyke’s upstream slope;

**“Geotechnical Engineer”** means a professional engineer registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists whose principal field of specialization is the design and construction of earthworks in a permafrost environment;

**“Greywater”** means all liquid Wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include toilet Waste;

**“Inspector”** means an Inspector designated by the Minister under Section 35(1) of the *Northwest Territories Waters Act*;

**“Licensee”** means the holder of this Licence;

**“Minister”** means the Minister of Aboriginal Affairs and Northern Development Canada (AANDC);

**“Modification”** means an alteration to a physical work that introduces a new structure or replaces an existing structure and does not alter the purpose or function of the work, but does not include an expansion;

**“Regulations”** mean Regulations proclaimed pursuant to Section 33 of the *Northwest Territories Waters Act*;

**“Sewage”** means all toilet Wastes and Greywater;

**“Sewage Treatment Facilities”** comprises the area and engineered structures designed to contain Sewage as identified in the project description and also include a Sump constructed of impervious material and/or with an impervious liner;

**“Sump”** means an excavation for the purpose of catching or storing water and/or Waste;

**“Waste”** means Waste as defined by Section 2 of the *Northwest Territories Waters Act*;

**“Waste Disposal Facilities”** mean all facilities designated for the disposal of Waste and include the Sewage disposal facilities, solid Waste disposal facilities, and bagged toilet Wastes disposal facilities;

**“Water Supply Facilities”** mean all facilities designed to collect, treat and supply water for industrial purposes; and

**“Waters”** mean Waters as defined by Section 2 of the *Northwest Territories Waters Act*;

## **PART B: GENERAL CONDITIONS**

1. The Licensee shall file an Annual Report with the Board not later than March 31<sup>st</sup> of the year following the calendar year reported which shall contain the following information:
  - a) the monthly and annual quantities in cubic metres of fresh water obtained from all sources;
  - b) the monthly and annual quantities in cubic metres of each and all Waste discharged;
  - c) the location and direction of flow of all Waste discharged to the water or the land;
  - d) a summary of the monthly and annual quantities of Waste stored on site and transported off site;
  - e) the results of sampling carried out under the “Surveillance Network Program”;
  - f) a summary of any Modifications carried out on the Water Supply Facilities and Sewage Treatment Facilities, including all associated structures;
  - g) a list of any spills and unauthorized discharges;
  - h) details on the restoration of any Sumps;
  - i) a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

- j) a summary of any studies requested by the Board that relate to Waste disposal, water use, or reclamation, and a brief description of any future studies planned;
  - k) notation of updates and/or revisions to the approved Spill Contingency Plan, Waste Disposal Facilities operations and maintenance plan, and sewage treatment plan;
  - l) an outline of any spill training and communications exercises carried out; and
  - m) any other details on water use or Waste disposal requested by the Board within forty-five (45) days before the annual report is due.
2. The Licensee shall comply with the "Surveillance Network Program" annexed to this Licence, and any amendment to the said "Surveillance Network Program" as may be made from time to time, pursuant to the conditions of this Licence.
  3. The "Surveillance Network Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.
  4. The Licensee shall, within thirty (30) days of the issuance of this Licence, submit to the Board for approval a map or drawing indicating the location of all Surveillance Network Program sampling stations.
  5. The Licensee shall, within thirty (30) days of the issuance of this Licence, post the necessary signs to identify the stations of the "Surveillance Network Program". All postings shall be located and maintained to the satisfaction of an Inspector.
  6. Any meters, devices or other such methods used for measuring the volumes of water used or Waste disposed and discharged shall be installed, operated and maintained by the Licensee to the satisfaction of an Inspector.
  7. The Licensee shall immediately report to the 24 Hour Spill Report Line (**867-920-8130**) any spills which are reported to, or observed by, the Licensee within the project boundaries.
  8. All monitoring data shall be submitted in printed form and electronically in spreadsheet format on a diskette or other electronic forms acceptable to the Board.
  9. All reports shall be submitted to the Board in printed format accompanied by an electronic copy in a common word processing format on diskette or other electronic forms acceptable to the Board.

10. Within thirty (30) days of issuance of this Licence, the Licensee shall have posted and shall maintain a security deposit in the amount of Two Million (\$2,000,000.00) Dollars pursuant to Section 17 of the *Act* and Section 12 of the Regulations, in a form suitable to the Minister. The security deposit shall be maintained until such time as it is fully or in part refunded by the Minister pursuant to Section 17 of the *Act*.
11. The Licensee shall ensure a copy of this Licence is maintained at the site of operation at all times.

**PART C: CONDITIONS APPLYING TO WATER USE**

1. The Licensee shall obtain water from the Middle Channel of the Mackenzie River in winter or the unnamed lake north of the camp in summer as described in the project description, or as otherwise approved by an Inspector.
2. The daily quantity of water used for all purposes shall not exceed 150 cubic metres.

**PART D: CONDITIONS APPLYING TO WASTE DISPOSAL**

1. The Licensee shall within thirty (30) days of the issuance of this Licence, submit to the Board for approval an updated operation and maintenance plan for the Waste Disposal Facilities. This plan shall include but not necessarily be limited to details on the design, operational capacity, management and maintenance, and disposal of sludges.
2. All Sewage shall be directed to the onsite Sewage Treatment Facilities as approved by an Inspector.
3. The Sewage Treatment Facilities shall be maintained and operated in such a manner as to prevent structural failure to the satisfaction of the Inspector.
4. All Waste discharged from the onsite Sewage lagoon shall be directed to the channel of the Mackenzie River at a location approved by an Inspector.
5. There should be no discharge of floating solids, garbage, grease, free oil or foam.

6. All effluent discharged by the Licensee from the Sewage lagoon at "Surveillance Network Program" Station Number 1834-1 shall meet the following effluent quality requirements:

| Sample Parameter              | Average Concentration      |
|-------------------------------|----------------------------|
| BOD <sub>5</sub>              | 70.0 mg/L                  |
| Total Suspended Solids        | 70.0 mg/L                  |
| Faecal Coliforms              | 1 X 10 <sup>4</sup> CFU/dL |
| Oil and Grease                | 5.0 mg/L                   |
| Total Residual Chlorine (TRC) | 0.1 mg/L                   |

7. The effluent discharged shall have a pH between six (6) and nine (9) and no visible sheen of oil and grease.
8. Introduction of water to Waste for the purpose of achieving effluent quality requirements in Part D, Item 7 is prohibited.
9. A Freeboard limit of 1.0 metre shall be maintained at all times in the Sewage lagoon, or as recommended by a qualified Geotechnical Engineer and/or as approved by the Board.
10. The Licensee shall advise an Inspector at least five (5) days prior to initiating and decant of the Sewage lagoon.
11. All analyses shall be conducted in accordance with methods prescribed in the current edition of "Standard Methods for the Examination of water and Wastewater" or by such other methods as may be approved by an Analyst.
12. The Licensee shall contain all contaminated soil or contaminated snow in such a manner as to minimize the potential for migration of contaminants into any Waters, to the satisfaction of an Inspector.
13. The Licensee shall store, segregate and dispose of all solid and hazardous Wastes in a manner acceptable to the Inspector.
14. Unless authorized by this Licence, the Licensee shall ensure that any Wastes associated with this undertaking do not enter any water body.
15. The Licensee shall submit to the Board a copy of each agreement(s) between third parties to store, transport or dispose of Wastes. The copy submitted to the Board shall include, at a minimum, the following:

- a. type of Waste;
- b. quantities of Waste;
- c. disposal location(s), and
- d. proof of acceptance from third parties.

**PART E: CONDITIONS APPLYING TO MODIFICATIONS**

1. The Licensee may, without written approval from the Board, carry out Modifications to the planned undertakings provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:
  - a) the Licensee has notified an Inspector in writing of such proposed Modifications at least five (5) days prior to beginning the Modifications;
  - b) such Modifications do not place the Licensee in contravention of either the Licence or the Act;
  - c) an Inspector has not, during the five (5) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than five (5) days; and
  - d) an Inspector has not rejected the proposed Modifications.
2. Modifications for which all of the conditions referred to in Part F, Item 1 have not been met may be carried out only with written approval from an Inspector.
3. The Licensee shall provide to the Board as-built plans and drawings of the Modifications referred to in this Licence within ninety (90) days of completion of the Modifications.

**PART F: CONDITIONS APPLYING TO CONTINGENCY PLANNING**

1. The Licensee shall submit to the Board for approval within thirty (30) days of issuance of this Licence an updated Emergency Response & Spill Contingency Plan in accordance, for example, with the *Guidelines for Spill Contingency Planning, April 2007*, developed by AANDC-Water Resources Division.

2. The Licensee will maintain a copy of the approved Emergency Response & Spill Contingency Plan onsite in a readily available location, to the satisfaction of an Inspector.
3. The Licensee shall ensure that petroleum products, hazardous material and other Wastes associated with the project do not enter any Waters.
4. The Licensee shall ensure that all containment berms are constructed of an impermeable material, to the satisfaction of an Inspector.
5. The Licensee shall ensure that fuel stored in each tank within the tank farm be no greater than 85% of the tank's capacity to allow for expansion and avoid overflows.
6. If, during the period of this Licence, an unauthorised discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
  - a) report the incident immediately via the 24 Hour Spill Reporting Line (867) 920-8130; and
  - b) submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.

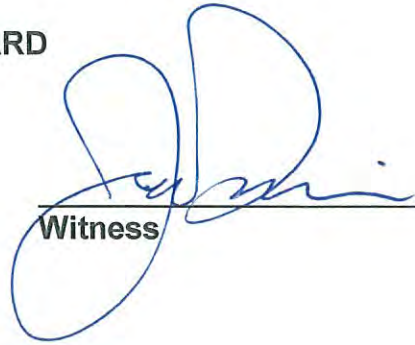
**PART G: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION**

1. The Licensee shall submit to the Board for approval within one (1) year of issuance of this Licence, an updated Interim Abandonment and Restoration Plan including plans for the abandonment and restoration of the Sewage lagoon and a complete Phase II environmental site assessment of Camp Farewell. This assessment will include the full delineation of contamination (soil and water) associated with Camp Farewell operations, located both on and off the gravel base pad.
2. The Licensee shall implement this Plan as and when approved by the Board.
3. Following approval of the Plan, the Licensee shall review the Abandonment and Restoration Plan every two (2) years and shall modify the Plan as necessary to reflect changes in operations and technology. All proposed Modifications to the Plan shall be submitted to the Board for approval.



**NORTHWEST TERRITORIES WATER BOARD**

  
Chairman

  
Witness

## NORTHWEST TERRITORIES WATER BOARD

**LICENSEE:** Shell Canada Energy  
**LICENCE NUMBER:** N7L1-1834  
**EFFECTIVE DATE OF LICENCE:** July 18, 2012  
**EFFECTIVE DATE OF SURVEILLANCE NETWORK PROGRAM:** July 18, 2012

### SURVEILLANCE NETWORK PROGRAM

#### A. Location of Sampling Stations

| <u>Station Number</u> | <u>Description</u>                |
|-----------------------|-----------------------------------|
| 1834-1                | Discharge from the Sewage lagoon. |

#### B. Sampling and Analysis Requirements

1. Water at Station Number 1834-1 shall be sampled prior to, and once during decanting. Each sample shall be analyzed for the following parameters:

|                |                         |
|----------------|-------------------------|
| BOD5           | Total Suspended Solids  |
| Oil and Grease | Faecal Coliforms        |
| Ammonia        | pH                      |
| Phosphorous    | Total Residual Chlorine |

2. More frequent sample collection may be required at the request of an Inspector.
3. All sampling, sample preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of "Standard Methods for the Examination of Water and Wastewater", or by such other methods approved by an Analyst.
4. All analysis shall be performed in a laboratory approved by an Analyst.
5. The Licensee shall, by August 17, 2012, submit to an Analyst for approval a Quality Assurance/Quality Control Plan.

6. The Plan referred to in Part B, Item 5 shall be implemented as approved by an Analyst.

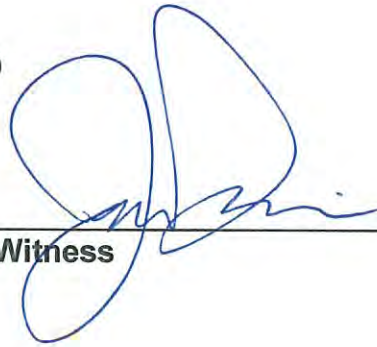
**C. Reports**

1. The Licensee shall, within thirty (30) days following the month of discharge from the Sewage lagoon, submit to the Board and an Inspector all data and information required by the "Surveillance Network Program" including the results of the approved Quality Assurance/Quality Control Plan.

**NORTHWEST TERRITORIES WATER BOARD**



Chairman



Witness

**Northwest Territories Water Board  
Reasons for Decision**

Issued pursuant to section 26 of the  
*Northwest Territories Waters Act, S.C. 1992 C.39*

Water Licence Number: N7L1-1834(Type B)

This is the decision of the Northwest Territories Water Board (Board) for the issuance of Water Licence N7L1-1834. The project is located at Latitude 69°12'30" North and Longitude 135°06'04" West in the Northwest Territories.

The Northwest Territories Water Board issued Licence N7L1-1834 in accordance with Section 14 of the *Northwest Territories Waters Act*.

**Background:**

Shell Canada Energy applied to the Board on March 5<sup>th</sup>, 2012 for a Water Licence for Farewell Camp and Stockpile Site (Camp Farewell) in the Mackenzie Delta. The Board deemed the application complete on May 23, 2011.

Canadian Environmental Assessment Act (CEAA)

The Water Licence application was exempt from the Canadian Environmental Assessment Act under Section 7(1)(a), specifically under Schedule 1, Part 1, Section 3(a) of the Exclusion List Regulations.

Environmental Impact Screening Committee (EISC)

On April 20, 2012 the Board received an official notification from the Environmental Impact Screening Committee that determined the application met the definition of development and that it was exempt from the screening process, as it qualified under exclusion #1 of Environmental Impact Screening Guidelines, Appendix C.

Notice of Application

In accordance with rule 38 of the Board Rules of Procedure, the Board gave notice of the application for a Water Licence regarding Camp Farewell, on May 28, 2012 in News North in English, May 31, 2012 in the Inuvik Drum in Inuvialuktun, and May 25, 2012 in L'Aquilon in French.

Reviewers' Comments

The Board sent the Water Licence application and supporting information for review to the following agencies: AANDC-NMDO, AANDC-WRD, EC, DFO and GNWT-ENR on May 23, 2012. The Board received written comments from AANDC (June 15, 2012), EC (June 15, 2012), DFO (May 28, 2012) and GNWT-ENR (June 14, 2012).

The Board considered all submitted comments at a Board meeting held via teleconference on July 10, 2012. The Board approved a Water Licence for the applicant's review. The Licence was submitted to the applicant on July 11, 2012 and it indicated in its response on July 16, 2012 that the Licence was acceptable.

**Requirements of the Northwest Territories Waters Act:**

Shell Canada Energy has provided the Board with its Schedule III application and supporting information for its consideration as required by section 16 of the *Northwest Territories Waters Act*.

The Board is in accordance with Paragraph 14(4)(a) of the *Northwest Territories Waters Act* by ensuring that the granting of the Water Licence to Shell Canada Energy will not adversely affect, in a significant way, any existing Licensee, providing the conditions of Water Licence N7L1-1834 are met. There are no other applicants with precedence.

The Board does not believe that any users nor persons listed in Paragraph 14(4)(b) of the *Northwest Territories Waters Act* will be adversely affected by the use of waters or the deposit of waste proposed by the Licensee provided that the Licensee operates in accordance with the terms and conditions of Water Licence N7L1-1834.

The Board is of the view that compliance with Water Licence N7L1-1834 terms and conditions will ensure that the waste will be treated and deposited in a manner that will maintain water quality in the area and will be consistent with applicable water quality standards in accordance with Sub-Paragraph 14(4)(c) (i) of the *Northwest Territories Waters Act*.

The Board drafted the terms and conditions of Water Licence N7L1-1834 in accordance with Section 15 of the *Northwest Territories Waters Act*.

In Accordance with Sub-Section 17(1) of the *Northwest Territories Waters Act*, the Board requested that a security deposit in the amount of two million dollars (\$2,000,000.00) be posted and shall be maintained in a form suitable to the Minister of Aboriginal Affairs and Northern Development Canada.

**Decision to issue Water Licence N7L1-1834:**

The Board has reviewed the Camp Farewell Project Application and draft Water Licence N7L1-1834 for issuance. Upon consideration of the facts and circumstances, the purpose, scope and intent of the *Northwest Territories Waters Act*, the Board has determined that it can issue Water Licence N7L1-1834.

For the above reasons the Board has determined to issue Water Licence N7L1-1834 in accordance with Sub-Section 14(1) and Sub-Paragraph 14(6)(b)(i) of the *Northwest Territories Waters Act* for the use of water and the deposit of wastes.

**SIGNED** this 18 day of July, 2012 on behalf of the Northwest Territories Water Board.



**Eddie Dillon**

**Chairperson, Northwest Territories Water Board**





Environment Canada  
Environnement Canada

Canadian Wildlife Service  
Prairie and Northern Region  
Box 2310, 5019 – 52 Street  
Yellowknife NT X1A 2P7

DATE: March 26, 2013  
TO: Randall Warren,  
Shell Canada Ltd.,

FROM: Paul Latour,  
CWS,  
Yellowknife, NT

TEL:  
FAX: 403-234-5947

TEL: 867-669-4769  
FAX: 867-873-8185

TOTAL # OF PAGES: 3  
SUBJECT: EC/CWS Sanctuary Permit

MESSAGE:

Attached is Sanctuary Permit NWT-MBS-13-01.

Please sign the 'Permittee' line on the last page and fax back to me.

Regarding the fuel tanks and fuel storage at Camp Farewell I am sending via regular mail information related to the *Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations* (<http://www.gazette.gc.ca/rp-pr/p2/2008/2008-06-25/html/sor-dors197-eng.html>) under the *Canadian Environmental Protection Act*, as they pertain to your operations at Camp Farewell.

Paul Latour

Canada



Environment  
Canada

Environnement  
Canada

## ENVIRONMENT CANADA PERMIT

Migratory Birds - Sanctuary

NWT-MBS-13-01

Permit for  
Northwest Territories

Permit no.

9.

province(s), territories

Issued under section

Randall Warren  
Shell Canada Ltd.,  
P.O. Box 100 Station "M"  
Calgary, AB  
T2P 2H5

Migratory Bird Sanctuary Regulations

Permittee

For the Minister

Date of issue : **March 26, 2013**

Date of expire: **December 31, 2013**

**The Permittee is authorized to enter the Kendall Island Migratory Bird Sanctuary to conduct care and maintenance of the Camp Farewell and Stockpile lease area.**





Environment  
Canada

Environnement  
Canada

## GENERAL CONDITIONS

1. The permit is not valid unless signed by the Permittee (holder) or authorized representative, in the space designated as "Permittee".
2. By signing this document you bind yourself to respect all terms and conditions of this permit.
3. The Permittee must comply with all other applicable Canadian laws and regulations.
4. Copy of signed permit must be carried by nominees and Permittee when conducting this work and will be presented if asked by Police or Game Officer.
5. The Permittee shall display a copy of this permit in a conspicuous place in each campsite established to carry out this program.
6. The conditions of this permit apply to all employees, agents, contractors, volunteers, and visitors of the Permittee.
7. The Permittee shall ensure that a copy of this Permit, operating conditions and definitions is provided, understood and adhered to by all contractors and sub-contractors prior to the start-up of the permitted activity
8. Additional restrictions may be required and may be added to this permit by the Minister if it is deemed necessary to ensure compliance with the Migratory Birds Convention Act and the Regulations.
9. Issuance of this permit does not supersede the necessity or legal requirement to acquire any other pertinent Territorial or Municipal license and or permit which may otherwise be applicable. This permit is not transferable to any other person(s) or organization(s) and is not valid if altered in any way.
10. If the Permittee proposes to conduct any activities that are not identified in the original permit application, the Permittee shall notify the Manager and, if necessary, apply for a new or amended permit to conduct the new activities.
11. The Permittee is authorized to possess firearms in the Kendall Island Migratory Bird Sanctuary for protection from dangerous wildlife only.
12. This permit may be revoked at any time at the discretion of the Minister.





## SPECIAL CONDITIONS

### 1. PROTECTION OF TERRESTRIAL HABITAT

1. The Permittee shall not conduct any activities in the Kendall Island Bird Sanctuary outside the Camp Farewell and Stockpile lease area.
2. The Permittee shall use portable ramps during loading or unloading ships or barges.
3. The Permittee shall not remove or relocate earth, except contaminated soils collected as part of a clean-up program.

### 3. PROTECTION OF AQUATIC HABITAT

1. The Permittee shall not place dirt or debris into streams to serve as ramps for loading or unloading ships or barges.
2. The Permittee shall not cut any bank of a waterbody.

### 2. WILDLIFE DISTURBANCE AND INTERACTION

1. The Permittee shall not feed wildlife or attempt to attract wildlife.
2. The Camp Farewell airstrip is not permitted to be used from 10 May – 20 June and 25 August – 30 September, except for emergencies.
3. Aircraft activity is restricted to flights necessary to carry out care and maintenance of the Camp Farewell and Stockpile lease area.
4. Aircraft shall maintain a minimum horizontal distance of 1.5 km from any observed concentrations of migratory birds.
5. The Permittee shall notify the Manager of any birds nesting on the infrastructure within the lease area.

### 3. FUEL STORAGE AND HANDLING

1. The Permittee shall not allow oil, oil wastes or any other substance harmful to migratory birds to be deposited in waters or other areas frequented by migratory birds, or in a place from which the substances may enter waters frequented by migratory birds.
2. The Permittee shall permanently mark all fuel containers, including 205 L drums, with the Permittee's name.

### 4. HAZARDOUS MATERIALS AND CONTAMINANTS – HANDLING AND DISPOSAL

1. The Permittee shall have the appropriate Workplace Hazardous Material Information System, 'Material Safety Data Sheets' identification available on site.
2. The Permittee shall remove and dispose of all hazardous materials at an approved facility.
3. The Permittee shall conduct maintenance, oil changes, refueling and lubricating of mobile equipment no closer than 100 m from waterbodies (lakes, ponds and streams).

### 5. GARBAGE AND WASTE WATER HANDLING AND REMOVAL

1. The Permittee shall ensure that all domestic garbage and other wildlife attractants are inaccessible to wildlife at all times.
2. The Permittee shall regularly collect all waste, debris and domestic garbage and dispose of it using appropriate technology and accepted practices.
3. The Permittee shall inventory and dispose of any waste materials, construction materials, drilling materials or other materials on at least an annual basis to minimize accumulation within the permit area. The inventory of materials disposed and materials remaining within the permit area must be reported to the Manager.



Environment  
Canada

Environnement  
Canada

## 6. REPORTING

1. The Permittee shall submit a detailed report within thirty (30) days of the expiration date of this permit. The report shall include all activities that occurred at Camp Farewell during 2012, the number and species name of all wildlife observed, and other items of interest.

## DEFINITIONS

Manager: 'The Manager', Northern Conservation Section, Canadian Wildlife Service, Environment Canada or his/her designate.

Minister: The Minister of the Environment.

Permittee: The party to whom a CWS Sanctuary Permit is issued for conducting activities in a Migratory Bird Sanctuary.

Waterbody: Any river, stream, creek, lake, or pond.

Camp: A collection of accommodations, maintenance, transportation, and storage facilities located either permanently or temporarily at a site.

**Sub-permit holder and/or nominee(s):**

I declare that I have read and understand this Permit, including all the conditions attached.

---

Signature of Permittee

## APPENDIX II

### Laboratory Analytical Reports – Soil and Surface Water

---

**CONFIRMATION-RECEIPT OF SAMPLES FOR ANALYSIS****Maxxam Job # B362533**

Client Project #: A04012A05  
Site Location: CAMP FAREWELL

19 Samples

Samples Received 2013/07/22  
Client Confirmation 2013/07/22  
**Expected Report Delivery 2013/07/29 18:00**

**Report will be sent to:**

NICOLE WILLS  
KLOHN CRIPPEN BERGER LTD  
HOPEWELL PLACE NE  
CALGARY  
T1Y 7J7  
Ph 403-274-3424  
Fax 403-274-5349  
[NWills@klohn.com](mailto:NWills@klohn.com)

**Invoice will be sent to:**

Accounts Payable  
IEG CONSULTANTS LTD.  
500-2618 HOPEWELL PLACE NE  
CALGARY  
T1Y 7J7

**We have received the following samples:****N WALL#1**

Sampled 2013/07/19 16:30 COC# A134514

Matrix: SOIL

Maxxam #: GZ1925

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**N WALL#2**

Sampled 2013/07/19 16:35 COC# A134514

Maxxam #: GZ1926

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind



Sub-sample for metals

**N WALL#3**

Sampled 2013/07/19 16:40 COC# A134514

Maxxam #: GZ1927

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**N WALL#4**

Sampled 2013/07/19 16:50 COC# A134514

Maxxam #: GZ1928

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**W WALL#1**

Sampled 2013/07/19 17:00 COC# A134514

Maxxam #: GZ1930

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**W WALL#2**

Sampled 2013/07/19 17:10 COC# A134514

Maxxam #: GZ1931

---

\*\*AT1 BTEX and F1-F4 in Soil  
Benzo[a]pyrene Equivalency  
Environmental Sample Disposal Fee  
Moisture  
PAH Extraction  
PAH in Soil by GC/MS

**W WALL#3**

Sampled 2013/07/19 17:20 COC# A134514

Maxxam #: GZ1932

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**W WALL#4**

Sampled 2013/07/19 17:30 COC# A134514

Maxxam #: GZ1933

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 S E N D E S I D E**

Sampled 2013/07/19 14:30 COC# A134514

Maxxam #: GZ1934

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code

PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 N END W SIDE**

Sampled 2013/07/19 14:30 COC# A134514

Maxxam #: GZ1935

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 S END W SIDE**

Sampled 2013/07/19 14:30 COC# A134514

Maxxam #: GZ1936

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 N END E SIDE**

Sampled 2013/07/19 14:30 COC# A134514

Maxxam #: GZ1937

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)

Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 MIDDLE W SIDE**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1938

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#1 MIDDLE E SIDE**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1939

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#2**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1943

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals



**PILE#3 E SIDE N END**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1946

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#3 W SIDE S END**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1947

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE#3 W SIDE N END**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ1948

---

AT1 BTEX and F1-F4 in Soil  
Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**PILE #3 E SIDE S END (EX)**

Sampled 2013/07/19

COC# A134515

Maxxam #: GZ2419

---

AT1 BTEX and F1-F4 in Soil

Regulated Metals (CCME/AT1) - Soils  
SOIL SALINITY 4  
Acid Digestion for Metals - Soils  
Benzo[a]pyrene Equivalency  
Drying and Grinding  
Environmental Sample Disposal Fee  
Hexavalent Chromium Prep Code  
PAH Extraction  
PAH in Soil by GC/MS  
Particle Size by Sieve (75 micron)  
Sub Sample for Dry Grind  
Sub-sample for metals

**Comments:**

- Unless special storage arrangements are made, all samples will be discarded 60 days after receipt of samples.
- Non-regular samples are flagged as (C) Composite by lab, (H) Hold, or (L) Leachate.
- If there are any problems with the submitted samples, a Sample Integrity Form (SIF) detailing conditions will be included in this confirmation.
- For revisions please contact your Maxxam Project Management team at Ph (780) 577-7100.  
Your Project Manager is: Tanya Eugene

**Maxxam Job # B362533      PARAMETERS FOR ANALYSIS REQUESTED**

The values listed below are RDL's and not results. Report Detection Limit (RDL) may be elevated if there are matrix interferences or limited sample amounts.

- Maxxam # GZ1925, Sample IDN: **N WALL#1**
- Maxxam # GZ1926, Sample IDN: **N WALL#2**
- Maxxam # GZ1927, Sample IDN: **N WALL#3**
- Maxxam # GZ1928, Sample IDN: **N WALL#4**
- Maxxam # GZ1930, Sample IDN: **W WALL#1**
- Maxxam # GZ1931, Sample IDN: **W WALL#2**
- Maxxam # GZ1932, Sample IDN: **W WALL#3**
- Maxxam # GZ1933, Sample IDN: **W WALL#4**
- Maxxam # GZ1934, Sample IDN: **PILE#1 S END E SIDE**
- Maxxam # GZ1935, Sample IDN: **PILE#1 N END W SIDE**
- Maxxam # GZ1936, Sample IDN: **PILE#1 S END W SIDE**
- Maxxam # GZ1937, Sample IDN: **PILE#1 N END E SIDE**
- Maxxam # GZ1938, Sample IDN: **PILE#1 MIDDLE W SIDE**
- Maxxam # GZ1939, Sample IDN: **PILE#1 MIDDLE E SIDE**
- Maxxam # GZ1943, Sample IDN: **PILE#2**
- Maxxam # GZ1946, Sample IDN: **PILE#3 E SIDE N END**
- Maxxam # GZ1947, Sample IDN: **PILE#3 W SIDE S END**
- Maxxam # GZ1948, Sample IDN: **PILE#3 W SIDE N END**
- Maxxam # GZ2419, Sample IDN: **PILE #3 E SIDE S END (EX)**

**BENZO[A]PYRENE EQUIVALENCY**

|                             |             |                        |             |
|-----------------------------|-------------|------------------------|-------------|
| Benzo[a]pyrene equivalency  | 0.1 mg/kg   |                        |             |
| <b>PAH IN SOIL BY GC/MS</b> |             |                        |             |
| Quinoline                   | 0.01 mg/kg  | Naphthalene            | 0.005 mg/kg |
| Chrysene                    | 0.005 mg/kg | Benzo(k)fluoranthene   | 0.005 mg/kg |
| Benzo[e]pyrene              | 0.005 mg/kg | Benzo(a)pyrene         | 0.005 mg/kg |
| Perylene                    | 0.005 mg/kg | Acenaphthylene         | 0.005 mg/kg |
| Indeno(1,2,3-cd)pyrene      | 0.005 mg/kg | Dibenz(a,h)anthracene  | 0.005 mg/kg |
| 2-Methylnaphthalene         | 0.005 mg/kg | Acenaphthene           | 0.005 mg/kg |
| Fluorene                    | 0.005 mg/kg | Benzo(a)anthracene     | 0.005 mg/kg |
| Phenanthrene                | 0.005 mg/kg | Anthracene             | 0.004 mg/kg |
| Benzo(c)phenanthrene        | 0.005 mg/kg | Fluoranthene           | 0.005 mg/kg |
| Benzo(g,h,i)perylene        | 0.005 mg/kg | Benzo(b&j)fluoranthene | 0.005 mg/kg |
| Acridine                    | 0.01 mg/kg  | Pyrene                 | 0.005 mg/kg |

- Maxxam # GZ1925, Sample IDN: **N WALL#1**
- Maxxam # GZ1926, Sample IDN: **N WALL#2**
- Maxxam # GZ1927, Sample IDN: **N WALL#3**
- Maxxam # GZ1928, Sample IDN: **N WALL#4**
- Maxxam # GZ1930, Sample IDN: **W WALL#1**
- Maxxam # GZ1932, Sample IDN: **W WALL#3**
- Maxxam # GZ1933, Sample IDN: **W WALL#4**
- Maxxam # GZ1934, Sample IDN: **PILE#1 S END E SIDE**
- Maxxam # GZ1935, Sample IDN: **PILE#1 N END W SIDE**
- Maxxam # GZ1936, Sample IDN: **PILE#1 S END W SIDE**
- Maxxam # GZ1937, Sample IDN: **PILE#1 N END E SIDE**
- Maxxam # GZ1938, Sample IDN: **PILE#1 MIDDLE W SIDE**

Maxxam # GZ1939, Sample IDN: **PILE#1 MIDDLE E SIDE**  
 Maxxam # GZ1943, Sample IDN: **PILE#2**  
 Maxxam # GZ1946, Sample IDN: **PILE#3 E SIDE N END**  
 Maxxam # GZ1947, Sample IDN: **PILE#3 W SIDE S END**  
 Maxxam # GZ1948, Sample IDN: **PILE#3 W SIDE N END**  
 Maxxam # GZ2419, Sample IDN: **PILE #3 E SIDE S END (EX)**

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**PARTICLE SIZE BY SIEVE (75 MICRON)**

|                         |       |             |       |
|-------------------------|-------|-------------|-------|
| Sieve - #200 (>0.075mm) | 0.2 % | Sieve - Pan | 0.2 % |
| Grain Size              | 0.2 % |             |       |

**AT1 BTEX AND F1-F4 IN SOIL**

|                           |             |                                   |            |
|---------------------------|-------------|-----------------------------------|------------|
| F2 (C10-C16 Hydrocarbons) | 10 mg/kg    | F3 (C16-C34 Hydrocarbons)         | 50 mg/kg   |
| F4 (C34-C50 Hydrocarbons) | 50 mg/kg    | Reached Baseline at C50           |            |
| F1 (C6-C10) - BTEX        | 12 mg/kg    | (C6-C10)                          | 12 mg/kg   |
| Benzene                   | 0.005 mg/kg | m & p-Xylene                      | 0.04 mg/kg |
| Xylenes (Total)           | 0.04 mg/kg  | Toluene                           | 0.02 mg/kg |
| Ethylbenzene              | 0.01 mg/kg  | o-Xylene                          | 0.02 mg/kg |
| Moisture                  | 0.3 %       | F4G-SG (Heavy Hydrocarbons-Grav.) | 500 mg/kg  |

**SOIL SALINITY 4**

|                                |               |                     |           |
|--------------------------------|---------------|---------------------|-----------|
| +Fluoride (F)                  | 0.1 mg/kg     | pH                  |           |
| Conductivity                   | 0.02 dS/m     | Chloride (Cl)       | 5 mg/L    |
| Chloride (Cl)                  | 1 mg/kg       | Sulphate (SO4)      | 5 mg/L    |
| Sulphate (SO4)                 | 1 mg/kg       | +Bicarbonate (HCO3) | 1 mg/kg   |
| Anion Sum                      |               | Cation Sum          |           |
| Ion Balance                    | 0.01 N/A      | Cation/EC Ratio     | 0.1 N/A   |
| Magnesium (Mg)                 | 1 mg/L        | Magnesium (Mg)      | 0.1 mg/kg |
| Potassium (K)                  | 1.3 mg/L      | Potassium (K)       | 0.2 mg/kg |
| Sodium (Na)                    | 2.5 mg/L      | Sodium (Na)         | 0.1 mg/kg |
| Calcium (Ca)                   | 1.5 mg/L      | Calcium (Ca)        | 0.1 mg/kg |
| Sodium Adsorption Ratio        | 0.1 N/A       | Saturation %        |           |
| Theoretical Gypsum Requirement | 0.1 tonnes/ha |                     |           |

**REGULATED METALS (CCME/AT1) - SOILS**

|                       |            |                 |           |
|-----------------------|------------|-----------------|-----------|
| Hex. Chromium (Cr 6+) | 0.15 mg/kg | Chromium (Cr)   | 1 mg/kg   |
| Cobalt (Co)           | 1 mg/kg    | Copper (Cu)     | 5 mg/kg   |
| Mercury (Hg)          | 0.05 mg/kg | Lead (Pb)       | 1 mg/kg   |
| Antimony (Sb)         | 1 mg/kg    | Molybdenum (Mo) | 0.4 mg/kg |
| Nickel (Ni)           | 1 mg/kg    | Selenium (Se)   | 0.5 mg/kg |
| Silver (Ag)           | 1 mg/kg    | Arsenic (As)    | 1 mg/kg   |
| Thallium (Tl)         | 0.3 mg/kg  | Tin (Sn)        | 1 mg/kg   |
| Uranium (U)           | 1 mg/kg    | Vanadium (V)    | 1 mg/kg   |
| Zinc (Zn)             | 10 mg/kg   | Barium (Ba)     | 10 mg/kg  |
| Beryllium (Be)        | 0.4 mg/kg  | Boron (B)       | 0.1 mg/kg |
| Cadmium (Cd)          | 0.1 mg/kg  |                 |           |

---

 Maxxam # GZ1931, Sample IDN: **W WALL#2**
**MOISTURE**

|          |       |
|----------|-------|
| Moisture | 0.3 % |
|----------|-------|

### Fundamental Laboratory Acceptance Guideline

**Invoice To:**

IEG CONSULTANTS LTD.  
ATTN: Accounts Payable  
500-2618 HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7  
Client Contact:  
NICOLE WILLS

**Report To:**

KLOHN CRIPPEN BERGER LTD  
500-2618  
ATTN: NICOLE WILLS  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

Maxxam Job #: B362533  
Date Received: 2013/07/22  
Your C.O.C. #: A134514  
Your Project #: A04012A05  
Maxxam Project Manager: Tanya Eugene

Bottles in shipment but not listed on Chain of Custody

Labelling issue (missing/incorrect)

**Report Comments**

9. Extra sample labelled 'Pile #3 E Side S End' included in shipment but not listed on the chain of custody  
11. Sample 'Pile #2 E Side S End' is labeled as 'Pile #2' on the sample bottles

**Received Date:** 2013/07/22 (Time): 10:14 By: \_\_\_\_\_

**Inspected Date:** \_\_\_\_\_ (Time): \_\_\_\_\_ By: \_\_\_\_\_

**FLAG Created Date:** 2013/07/22 (Time): 15:57 By: AH4



|             |   |                    |                          |
|-------------|---|--------------------|--------------------------|
| Company:    | Invoice To:   | C/O Report Address | <input type="checkbox"/> |
| Contact:    | 1EG Consultants Ltd.  |                    |                          |
| Address:    | Nicole Wills<br>2618 Hopewell Place NE<br>Calgary, AB T1Y 7J7 |                    |                          |
| Contact #s: | Ph:   | 403-827-3048       | Cell: same               |

|            |                 |                                     |
|------------|-----------------|-------------------------------------|
| Report To: | Same as Invoice | <input checked="" type="checkbox"/> |
| Prov:      | PC:             |                                     |
| Ph:        | Cell:           |                                     |

|                               |                  |
|-------------------------------|------------------|
| Report Distribution (E-Mail): | nwills@klehn.com |
|-------------------------------|------------------|

|                                     |                          |
|-------------------------------------|--------------------------|
| REGULATORY GUIDELINES:              |                          |
| <input type="checkbox"/>            | AT1                      |
| <input checked="" type="checkbox"/> | CCME                     |
| <input type="checkbox"/>            | Regulated Drinking Water |
| <input type="checkbox"/>            | Other:                   |

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.

|                   |               |
|-------------------|---------------|
| PO #:             | A04012A05     |
| Project # / Name: | →             |
| Site Location:    | Camp Farewell |
| Quote #:          |               |
| Sampled By:       | Nicole Wills  |

|                    |  |
|--------------------|--|
| SERVICE REQUESTED: | <input type="checkbox"/> RUSH (Contact lab to reserve) |
|                    | Date Required: _____                                   |
|                    | <input type="checkbox"/> REGULAR (5 to 7 Days)         |

| Sample ID | Depth (unit)         | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |      |            | Other Analysis |      |     |                               | HOLD - Do not Analyze | # of Containers Submitted |       |           |         |                |
|-----------|----------------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------|------------|----------------|------|-----|-------------------------------|-----------------------|---------------------------|-------|-----------|---------|----------------|
|           |                      |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | VOCs | BTEX F1-F4 | Routine Water  | Turb | DOC | Regulated Metals (CCME / AT1) |                       |                           | Total | Dissolved | Mercury | Total          |
| 1         | N Wall #1            | 4m                  | 13/07/19 16:30                   | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       | 2 Jars / 1 Bag |
| 2         | N Wall #2            | 4m                  | 16:35                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       | 2 Jars / 1 Bag |
| 3         | N Wall #3            | 4m                  | 16:40                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       | 2 Jars / 1 Bag |
| 4         | N Wall #4            | 4m                  | 16:50                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 5         | W Wall #1            | 4m                  | 17:00                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 6         | W Wall #2            | 4m                  | 17:10                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 7         | W Wall #3            | 4m                  | 17:20                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 8         | W Wall #4            | 4m                  | 17:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 9         | Pile #1 S End E side | Comp.               | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 10        | Pile #1 N End W side | ↓                   | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       | 4 Jars         |
| 11        | Pile #1 S End W side | ↓                   | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |
| 12        | Pile #1 N End E side | ↓                   | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X              | X    | X   | X                             | X                     | X                         | X     | X         | X       |                |

Please indicate Filtered, Preserved or Both (F, P, F/P)

|                                    |                  |               |
|------------------------------------|------------------|---------------|
| Relinquished By (Signature/Print): | Date (YY/MM/DD): | Time (24:00): |
| Nicole Wills Nicole Wills          | 13/07/19         | 18:00         |
| Relinquished By (Signature/Print): | Date (YY/MM/DD): | Time (24:00): |
|                                    |                  |               |

Special Instructions: Please notify when received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 S End E side mixed before analysis, etc.).

|               |                       |             |
|---------------|-----------------------|-------------|
| LAB USE ONLY  |                       |             |
| Received By:  | Date:                 | Time:       |
| BOYU          | 20130722              | 10:14       |
| Lab Comments: | Maxxam Job #: B362533 |             |
|               | Custody Seal          | Temperature |
|               |                       | Ice         |
|               |                       | 8, 6, 6     |
|               |                       | 10, 9, 9    |
|               |                       | 6, 4, 4     |



Company: **IEG Consultants Ltd.**  
 Contact: **Nicole Wills**  
 Address: **See page 1**  
 Contact #s: Ph: **403-827-3048**

Report To: **Same as invoice**  
 Prov: **PC**  
 City: **Cal.**

Report Distribution (E-Mail):  
**nwills@kjohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 90 calendar days after sample receipt, unless specified otherwise.

PO #: \_\_\_\_\_  
 Project # / Name: **A04012A05**  
 Site Location: **Camp Farewell**  
 Quote #: \_\_\_\_\_  
 Sampled By: **Nicole Wills**

SERVICE REQUESTED:  
 RUSH (Contact lab to reserve)  
 Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID | Depth (unit)          | Matrix (GW / SW / Soil) | Date/Time Sampled (YY/MM/DD 24:00) | SOIL       |                   |                               |            |                       | WATER                   |         |        |            |              | Other Analysis |        |     |     |       | HOLD - Do not Analyze | # of Containers Submitted |       |                               |           |         |
|-----------|-----------------------|-------------------------|------------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|--------|------------|--------------|----------------|--------|-----|-----|-------|-----------------------|---------------------------|-------|-------------------------------|-----------|---------|
|           |                       |                         |                                    | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | □ VOCs | BTEX F1-F2 | □ BTEX F1-F4 | Routine Water  | □ Turb | □ F | TOC | □ DOC |                       |                           | Total | Regulated Metals (CCME / AT1) | Dissolved | Mercury |
| 1         | Pile #1 Middle W side | Comp. Soil              | 13/07/19                           | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 4 Jars  |
| 2         | Pile #1 Middle E side |                         |                                    | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 4 Jars  |
| 3         | Pile #2 E side S end  |                         |                                    | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 8 Jars  |
| 4         | Pile #3 E side N end  |                         |                                    | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 4 Jars  |
| 5         | Pile #3 W side S end  |                         |                                    | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 4 Jars  |
| 6         | Pile #3 W side N end  |                         |                                    | X          | X                 | X                             | X          | X                     | X                       | X       | X      | X          | X            | X              | X      | X   | X   | X     | X                     | X                         | X     | X                             | X         | 4 Jars  |
| 7         |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           | 4 Jars  |
| 8         |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           |         |
| 9         |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           |         |
| 10        |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           |         |
| 11        |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           |         |
| 12        |                       |                         |                                    |            |                   |                               |            |                       |                         |         |        |            |              |                |        |     |     |       |                       |                           |       |                               |           |         |

Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print): **Nicole Wills Nicole Wills** Date (YY/MM/DD): **13/07/19** Time (24:00): **18:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_

Special Instructions: **Please notify when samples are received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 middle W side mixed before analysis, etc.)**

# of Jars Used & Not Submitted

LAB USE ONLY

Received By: **BO SU** Date: **20130722** Time: **10:14** Maxxam Job #: **B362533**

| Custody Seal  | Temperature     | Ice            |
|---------------|-----------------|----------------|
| <b>B58</b>    | <b>8, 6, 6</b>  | <b>Present</b> |
| <b>Absent</b> | <b>10, 9, 9</b> |                |
|               | <b>6, 4, 4</b>  |                |

Lab Comments: \_\_\_\_\_

Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

Sample Matrix: Soil  
 # Samples Received: 18

| Analyses                               | Quantity | Date       | Date       | Laboratory Method            | Analytical Method |
|--|----------|------------|------------|------------------------------|-------------------|
|  |          | Extracted  | Analyzed   |                              |                   |
| Boron (Hot Water Soluble)              | 17       | 2013/07/26 | 2013/07/26 | AB SOP-00042                 | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22 | 2013/07/25 | AB SOP-00039                 | CCME, EPA 8260    |
| Cation/EC Ratio                        | 17       | N/A        | 2013/07/26 |                              | CALCULATION       |
| Chloride (Soluble)                     | 17       | 2013/07/25 | 2013/07/26 | AB SOP-00020                 | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22 | 2013/07/23 | EENVSOP-00131                | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 17       | 2013/07/25 | 2013/07/26 | AB SOP-00004                 | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22 | 2013/07/25 | AB SOP-00040<br>AB SOP-00036 | CCME PHC-CWS      |
| Elements by ICPMS - Soils              | 17       | 2013/07/26 | 2013/07/26 | AB SOP-00043                 | EPA 200.8         |
| Ion Balance                            | 17       | N/A        | 2013/07/26 | AB WI-00065                  | SM 1030E          |
| Sum of Cations, Anions                 | 17       | N/A        | 2013/07/26 | AB WI-00065                  | SM 1030E          |
| Moisture                               | 18       | N/A        | 2013/07/23 | AB SOP-00002                 | CCME PHC-CWS      |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26 | 2013/07/26 | AB SOP-00006                 | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 17       | N/A        | 2013/07/25 | EENVSOP-00077                | SSMA 55.4         |
| Sodium Adsorption Ratio                | 17       | N/A        | 2013/07/26 | AB WI-00065                  | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 17       | 2013/07/26 | 2013/07/26 | AB SOP-00042                 | EPA 200.7         |
| Soluble Paste                          | 17       | 2013/07/25 | 2013/07/26 | AB SOP-00033                 | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A        | 2013/07/23 |                              | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 17       | N/A        | 2013/07/26 | CAL WI-00087                 | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key



Tanya Eugene

26 Jul 2013 17:42:29 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugine@maxxam.ca  
 Phone# (780) 577-7144



Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

-2-

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics - Partial/Rush Results

Total cover pages: 2

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 7.6     | 27      | 7.8     | 12      | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 29      | <10     | 190     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 650     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 230     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 0.028   | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 117     | 106     | 109     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 102     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 120     | 124     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 100     | 99      | 101     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 92      | 103     | 94      | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1930              | GZ1932              | GZ1933              | GZ1934                         |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 7.5     | 6.3     | 8.5     | 2.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10     | 16      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 70      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 105     | 107     | 106     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 97      | 97      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 128     | 126     | 126     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 99      | 100     | 98      | 98      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 93      | 101     | 103     | 105     | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 3.7     | 3.5     | 9.7     | 5.9     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 65      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 51      | <50     | 100     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 60      | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 103     | 105     | 107     | 100     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 101     | 98      | 92      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 123     | 124     | 124     | 125     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 102     | 102     | 97      | 94      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 98      | 107     | 106     | 106     | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         |            |                 |
|---------------|--------------|-------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             | A134515       | A134515                        | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture   | %     | 4.3     | 2.9     | 2.7     | 5.2     | 3.6     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | 23      | 26      | 14      | <10     | 58      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | 67      | 67      | 130     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>   |       |         |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene  | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 105     | 101     | 105     | 106     | 104     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 102     | 100     | 100     | 101     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 125     | 122     | 127     | 130     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 102     | 101     | 100     | 101     | 101     | N/A    | 7012055 |
| O-TERPHENYL (sur.)                                       | %     | 105     | 95      | 101     | 106     | 106     | N/A    | 7011232 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              |            | GZ1926              |            | GZ1927              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 |            | 2013/07/19<br>16:35 |            | 2013/07/19<br>16:40 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>RDL</b> | <b>N WALL#2</b>     | <b>RDL</b> | <b>N WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928              |            | GZ1930              |            | GZ1932              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50 |            | 2013/07/19<br>17:00 |            | 2013/07/19<br>17:20 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#4</b>     | <b>RDL</b> | <b>W WALL#1</b>     | <b>RDL</b> | <b>W WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |              | GZ1933              |            | GZ1934                         |            |                 | GZ1935                         |            |                 |
|---------------|--------------|---------------------|------------|--------------------------------|------------|-----------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30 |            | 2013/07/19<br>14:30            |            |                 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             |            | A134514                        |            |                 | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#4</b>     | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 6.5   | N/A   | 1.3   | N/A   | 7007666 | 1.2   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 8.9   | N/A   | 3.7   | N/A   | 7007666 | 3.9   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 7007661 | 11    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 | 3.4   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 37    | 0.59  | 11    | 0.39  | 7007668 | 13    | 0.45  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 14    | 0.39  | 1.8   | 0.26  | 7007668 | 1.8   | 0.30  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 | 4.0   | 0.76  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 | 8.4   | 0.39  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 | 2.1   | 1.5   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 110   | 2.0   | 13    | 1.3   | 7007668 | 14    | 1.5   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 8.6   | 5.0   | 7024579 | 6.9   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.63  | N/A   | 7.59  | N/A   | 7023896 | 7.67  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 | 0.50  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 95    | 1.5   | 42    | 1.5   | 7024739 | 43    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 37    | 1.0   | 6.7   | 1.0   | 7024739 | 5.9   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 20    | 2.5   | 16    | 2.5   | 7024739 | 13    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 8.3   | 1.3   | 13    | 1.3   | 7024739 | 28    | 1.3   | 7024739 |
| Saturation %                   | %         | 39    | N/A   | 26    | N/A   | 7019899 | 30    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 290   | 5.0   | 51    | 5.0   | 7024739 | 47    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |            |                                |            |                                     |            |                 |
|---------------|--------------|--------------------------------|------------|--------------------------------|------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1936                         |            | GZ1937                         |            | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            |            | 2013/07/19<br>14:30            |            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        |            | A134514                        |            | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |       |       |       |       |         |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                        | meq/L     | 1.1   | N/A   | 3.7   | N/A   | 3.1   | N/A   | 7009893 |
| Cation Sum                       | meq/L     | 4.1   | N/A   | 5.0   | N/A   | 6.7   | N/A   | 7009893 |
| Cation/EC Ratio                  | N/A       | 11    | 0.10  | 12    | 0.10  | 8.7   | 0.10  | 7009885 |
| Ion Balance                      | N/A       | 3.9   | 0.010 | 1.3   | 0.010 | 2.1   | 0.010 | 7009891 |
| Calculated Calcium (Ca)          | mg/kg     | 19    | 0.54  | 13    | 0.42  | 25    | 0.45  | 7009895 |
| Calculated Magnesium (Mg)        | mg/kg     | 2.5   | 0.36  | 2.8   | 0.28  | 3.4   | 0.30  | 7009895 |
| Calculated Sodium (Na)           | mg/kg     | 4.4   | 0.91  | 8.5   | 0.70  | 4.8   | 0.74  | 7009895 |
| Calculated Potassium (K)         | mg/kg     | 4.8   | 0.47  | 4.6   | 0.36  | 8.8   | 0.39  | 7009895 |
| Calculated Chloride (Cl)         | mg/kg     | 2.8   | 1.8   | 9.7   | 1.4   | 4.4   | 1.5   | 7009895 |
| Calculated Sulphate (SO4)        | mg/kg     | 15    | 1.8   | 37    | 1.4   | 39    | 1.5   | 7009895 |
| <b>Soluble Parameters</b>        |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | 7.8   | 5.0   | 35    | 5.0   | 15    | 5.0   | 7024579 |
| Soluble Conductivity             | dS/m      | 0.37  | 0.020 | 0.42  | 0.020 | 0.76  | 0.020 | 7020744 |
| Soluble (CaCl2) pH               | N/A       | 7.63  | N/A   | 7.50  | N/A   | 7.79  | N/A   | 7023896 |
| Sodium Adsorption Ratio          | N/A       | 0.41  | 0.10  | 1.1   | 0.10  | 0.43  | 0.10  | 7009894 |
| Soluble Calcium (Ca)             | mg/L      | 54    | 1.5   | 48    | 1.5   | 85    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)           | mg/L      | 6.8   | 1.0   | 10    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)              | mg/L      | 12    | 2.5   | 31    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)            | mg/L      | 13    | 1.3   | 16    | 1.3   | 30    | 1.3   | 7024739 |
| Saturation %                     | %         | 36    | N/A   | 28    | N/A   | 30    | N/A   | 7019899 |
| Soluble Sulphate (SO4)           | mg/L      | 40    | 5.0   | 130   | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |
| RDL = Reportable Detection Limit |           |       |       |       |       |       |       |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |       | GZ1939                     | GZ1943     |     | GZ1946                 |     | GZ1947                 |     |          |
|---------------|-------|----------------------------|------------|-----|------------------------|-----|------------------------|-----|----------|
| Sampling Date |       | 2013/07/19                 | 2013/07/19 |     | 2013/07/19             |     | 2013/07/19             |     |          |
| COC Number    |       | A134515                    | A134515    |     | A134515                |     | A134515                |     |          |
|               | UNITS | PILE#1<br>MIDDLE<br>E SIDE | PILE#2     | RDL | PILE#3 E<br>SIDE N END | RDL | PILE#3 W<br>SIDE S END | RDL | QC Batch |

| Calculated Parameters          |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 0.34  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 1.3   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 3.7   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 12    | 0.39  | 9.9   | 0.38  | 2.6   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 0.47  | 0.25  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 3.2   | 0.63  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 0.72  | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | <1.3  | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 4.2   | 1.3   | 7009895 |
| Soluble Parameters             |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 21    | 5.6   | 5.0   | 5.4   | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 0.11  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 6.88  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 0.95  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 57    | 45    | 1.5   | 39    | 1.5   | 10    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 1.8   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 15    | 13    | 2.5   | 14    | 2.5   | 13    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 2.8   | 1.3   | 7024739 |
| Saturation %                   | %         | 26    | 26    | N/A   | 26    | N/A   | 25    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 100   | 24    | 5.0   | 19    | 5.0   | 16    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |            |                 |
|---------------|--------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1948                         |            |                 |
| Sampling Date |              | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |         |
|----------------------------------|-----------|-------|-------|---------|
| Anion Sum                        | meq/L     | 0.46  | N/A   | 7009893 |
| Cation Sum                       | meq/L     | 1.6   | N/A   | 7009893 |
| Cation/EC Ratio                  | N/A       | 12    | 0.10  | 7009885 |
| Ion Balance                      | N/A       | 3.5   | 0.010 | 7009891 |
| Calculated Calcium (Ca)          | mg/kg     | 4.1   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)        | mg/kg     | 0.55  | 0.25  | 7009895 |
| Calculated Sodium (Na)           | mg/kg     | 2.9   | 0.63  | 7009895 |
| Calculated Potassium (K)         | mg/kg     | 1.1   | 0.33  | 7009895 |
| Calculated Chloride (Cl)         | mg/kg     | <1.3  | 1.3   | 7009895 |
| Calculated Sulphate (SO4)        | mg/kg     | 5.5   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>        |           |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity             | dS/m      | 0.13  | 0.020 | 7020744 |
| Soluble (CaCl2) pH               | N/A       | 7.25  | N/A   | 7023896 |
| Sodium Adsorption Ratio          | N/A       | 0.72  | 0.10  | 7009894 |
| Soluble Calcium (Ca)             | mg/L      | 16    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)           | mg/L      | 2.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)              | mg/L      | 12    | 2.5   | 7024739 |
| Soluble Potassium (K)            | mg/L      | 4.5   | 1.3   | 7024739 |
| Saturation %                     | %         | 25    | N/A   | 7019899 |
| Soluble Sulphate (SO4)           | mg/L      | 22    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | 7009896 |
| RDL = Reportable Detection Limit |           |       |       |         |

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |                     |                     |                                |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1932              | GZ1933              | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |       |       |         |
|-------------------------------|-------|--------|--------|--------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.18   | 0.12   | 0.59   | 0.19  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.0    | 5.0    | 5.8    | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 240    | 79     | 100    | 2300  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | 0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 9.2    | 12     | 7.2    | 37    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.8    | 3.6    | 4.3    | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | <5.0   | <5.0   | 7.8   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 3.4    | 3.0    | 3.6    | 18    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | 0.058 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.56   | 0.51   | 0.54   | 1.1   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 12     | 12     | 21    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12     | 12     | 14     | 13    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 25     | 28     | 29    | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

| Maxxam ID     |              | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134515                             | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.13  | 0.16  | 0.12  | 0.19  | 0.13  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 4.2   | 6.3   | 3.7   | 5.0   | 5.5   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 2600  | 2700  | 630   | 2600  | 1100  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | 0.12  | <0.10 | <0.10 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 12    | 8.8   | 27    | 24    | 18    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.5   | 2.9   | 1.2   | 1.8   | 2.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 5.8   | 8.1   | <5.0  | 5.6   | <5.0  | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 19    | 39    | 8.5   | 15    | 9.7   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.063 | 0.072 | 0.051 | 0.053 | 0.063 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.49  | 0.89  | 0.73  | 0.76  | 0.70  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 7.2   | 7.4   | 13    | 12    | 11    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11    | 15    | 12    | 14    | 11    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 23    | 33    | <10   | 18    | <10   | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |               |                                |                                |                                |            |                 |
|---------------|--------------|---------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         |            |                 |
| Sampling Date |              | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134515       | A134515                        | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |       |       |         |
|-------------------------------|-------|--------|--------|--------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.16   | 0.17   | 0.12   | 0.11  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.3    | 6.1    | 5.7    | 5.7   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 730    | 480    | 260    | 300   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.9    | 15     | 29     | 42    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 2.3    | 3.3    | 2.7    | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.7    | 6.6    | 5.5    | 6.4   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 9.0    | 12     | 6.8    | 7.8   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | 0.068 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.72   | 0.70   | 0.90   | 1.6   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 7.2    | 12     | 17     | 23    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 13     | 15     | 14     | 13    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 20     | 24     | 18     | 16    | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1931              | GZ1932              | GZ1933              |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:10 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#2</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |                                |                                |                                |                                     |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |        |      |         |
|----------------------------------|---|--------|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b>       |   |        |        |        |        |        |      |         |
| Sieve - Pan                      | % | 7.0    | 3.8    | 5.6    | 2.8    | 4.0    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 93     | 96     | 94     | 97     | 96     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |        |        |        |      |         |

|               |              |                                     |               |                                |                                |                                |            |                 |
|---------------|--------------|-------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         |            |                 |
| Sampling Date |              | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             | A134515       | A134515                        | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |        |      |         |
|----------------------------------|---|--------|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b>       |   |        |        |        |        |        |      |         |
| Sieve - Pan                      | % | 1.3    | 6.9    | 9.8    | 3.7    | 4.9    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 99     | 93     | 90     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |        |        |        |      |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

Maxxam Analytics - Partial/Rush Results

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report

Maxxam Job Number: EB362533

| QA/QC Batch               | QC Type                         | Parameter                      | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |    |
|---------------------------|---------------------------------|--------------------------------|-----------------------------|------------|----------|-------|-----------|----------|----|
| 7011232 KN0               | Matrix Spike<br>[GZ1928-01]     | O-TERPHENYL (sur.)             | 2013/07/25                  |            | 98       | %     | 50 - 130  |          |    |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                  |            | 98       | %     | 50 - 130  |          |    |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                  |            | 102      | %     | 50 - 130  |          |    |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                  |            | 100      | %     | 50 - 130  |          |    |
|                           | Spiked Blank                    | O-TERPHENYL (sur.)             | 2013/07/25                  |            | 102      | %     | 50 - 130  |          |    |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |    |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |    |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |    |
|                           | Method Blank                    | O-TERPHENYL (sur.)             | 2013/07/25                  |            |          | 98    | %         | 50 - 130 |    |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                  |            | <10      |       | mg/kg     |          |    |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                  |            | <50      |       | mg/kg     |          |    |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                  |            | <50      |       | mg/kg     |          |    |
|                           | RPD [GZ1927-01]                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                  |            | NC       |       | %         | 50       |    |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                  |            | NC       |       | %         | 50       |    |
| F4 (C34-C50 Hydrocarbons) |                                 | 2013/07/25                     |                             | NC         |          | %     | 50        |          |    |
|                           |                                 |                                |                             |            |          |       |           |          |    |
| 7011691 KD5               | Matrix Spike<br>[GZ1933-01]     | Hex. Chromium (Cr 6+)          | 2013/07/23                  |            | 82       | %     | 75 - 125  |          |    |
|                           |                                 | Spiked Blank                   | Hex. Chromium (Cr 6+)       | 2013/07/23 |          | 101   | %         | 90 - 110 |    |
|                           | Method Blank<br>RPD [GZ1933-01] | Hex. Chromium (Cr 6+)          | 2013/07/23                  |            | <0.15    |       | mg/kg     |          |    |
|                           |                                 | Hex. Chromium (Cr 6+)          | 2013/07/23                  |            | NC       |       | %         | 35       |    |
| 7012055 CG7               | Matrix Spike<br>[GZ1926-01]     | 1,4-Difluorobenzene (sur.)     | 2013/07/25                  |            | 115      | %     | 60 - 140  |          |    |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)    | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |    |
|                           |                                 | D10-ETHYLBENZENE (sur.)        | 2013/07/25                  |            | 120      | %     | 60 - 130  |          |    |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.)   | 2013/07/25                  |            | 102      | %     | 60 - 140  |          |    |
|                           |                                 | Benzene                        | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |    |
|                           |                                 | Toluene                        | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |    |
|                           |                                 | Ethylbenzene                   | 2013/07/25                  |            | 90       | %     | 60 - 140  |          |    |
|                           |                                 | m & p-Xylene                   | 2013/07/25                  |            | 91       | %     | 60 - 140  |          |    |
|                           |                                 | o-Xylene<br>(C6-C10)           | 2013/07/25                  |            | 90       | %     | 60 - 140  |          |    |
|                           |                                 | Spiked Blank                   | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 119   | %         | 60 - 140 |    |
|                           | Method Blank                    | 4-BROMOFLUOROBENZENE (sur.)    | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |    |
|                           |                                 | D10-ETHYLBENZENE (sur.)        | 2013/07/25                  |            | 119      | %     | 60 - 130  |          |    |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.)   | 2013/07/25                  |            | 119      | %     | 60 - 140  |          |    |
|                           |                                 | Benzene                        | 2013/07/25                  |            | 112      | %     | 60 - 140  |          |    |
|                           |                                 | Toluene                        | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |    |
|                           |                                 | Ethylbenzene                   | 2013/07/25                  |            | 91       | %     | 60 - 140  |          |    |
|                           |                                 | m & p-Xylene                   | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |    |
|                           |                                 | o-Xylene<br>(C6-C10)           | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |    |
|                           |                                 | Method Blank                   | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 88    | %         | 60 - 140 |    |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)    | 2013/07/25                  |            | 79       | %     | 60 - 140  |          |    |
|                           | RPD [GZ1925-01]                 | D10-ETHYLBENZENE (sur.)        | 2013/07/25                  |            | 127      | %     | 60 - 130  |          |    |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.)   | 2013/07/25                  |            | 111      | %     | 60 - 140  |          |    |
|                           |                                 | Benzene                        | 2013/07/25                  |            | <0.0050  |       | mg/kg     |          |    |
|                           |                                 | Toluene                        | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |    |
|                           |                                 | Ethylbenzene                   | 2013/07/25                  |            | <0.010   |       | mg/kg     |          |    |
|                           |                                 | Xylenes (Total)                | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |    |
|                           |                                 | m & p-Xylene                   | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |    |
|                           |                                 | o-Xylene                       | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |    |
|                           |                                 | F1 (C6-C10) - BTEX<br>(C6-C10) | 2013/07/25                  |            | <12      |       | mg/kg     |          |    |
|                           |                                 | RPD [GZ1925-01]                | Benzene                     | 2013/07/25 |          | <12   |           | mg/kg    |    |
|                           |                                 |                                |                             |            |          | NC    |           | %        | 50 |

Maxxam Analytics - Partial/Rush Results



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type                  | Parameter               | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------------------|-------------------------|-----------------------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01]          | Toluene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | Ethylbenzene            | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | Xylenes (Total)         | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | m & p-Xylene            | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | o-Xylene                | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | F1 (C6-C10) - BTEX      | 2013/07/25                  | NC     |          | %     | 50        |
|             |                          | (C6-C10)                | 2013/07/25                  | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank             | Moisture                | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD [GZ1948-01]          | Moisture                | 2013/07/23                  | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank             | Moisture                | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD                      | Moisture                | 2013/07/23                  | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard              | Sieve - Pan             | 2013/07/25                  |        | 101      | %     | 95 - 105  |
|             |                          | Sieve - #200 (>0.075mm) | 2013/07/25                  |        | 98       | %     | 92 - 108  |
|             | Method Blank             | Sieve - Pan             | 2013/07/25                  | <0.20  |          | %     |           |
|             |                          | Sieve - #200 (>0.075mm) | 2013/07/25                  | <0.20  |          | %     |           |
|             | RPD [GZ1934-01]          | Sieve - Pan             | 2013/07/25                  | 19.1   |          | %     | 35        |
|             |                          | Sieve - #200 (>0.075mm) | 2013/07/25                  | 1.3    |          | %     | 35        |
| 7019899 LX  | QC Standard              | Saturation %            | 2013/07/26                  |        | 103      | %     | 93 - 107  |
|             | RPD                      | Saturation %            | 2013/07/26                  | 0.9    |          | %     | 12        |
| 7020744 SSF | QC Standard              | Soluble Conductivity    | 2013/07/26                  |        | 106      | %     | 85 - 115  |
|             | Spiked Blank             | Soluble Conductivity    | 2013/07/26                  |        | 101      | %     | 90 - 110  |
|             | Method Blank             | Soluble Conductivity    | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD                      | Soluble Conductivity    | 2013/07/26                  | 5.8    |          | %     | 35        |
| 7023896 SSF | QC Standard              | Soluble (CaCl2) pH      | 2013/07/26                  |        | 102      | %     | 97 - 103  |
|             | Spiked Blank             | Soluble (CaCl2) pH      | 2013/07/26                  |        | 100      | %     | 97 - 103  |
|             | RPD [GZ1932-01]          | Soluble (CaCl2) pH      | 2013/07/26                  | 0.5    |          | %     | 5         |
| 7024579 KD5 | Matrix Spike             | Soluble Chloride (Cl)   | 2013/07/26                  |        | 102      | %     | 75 - 125  |
|             | QC Standard              | Soluble Chloride (Cl)   | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             | Spiked Blank             | Soluble Chloride (Cl)   | 2013/07/26                  |        | 101      | %     | 75 - 125  |
|             | Method Blank             | Soluble Chloride (Cl)   | 2013/07/26                  | <5.0   |          | mg/L  |           |
|             | RPD                      | Soluble Chloride (Cl)   | 2013/07/26                  | NC     |          | %     | 35        |
| 7024662 SF3 | Matrix Spike [GZ1946-01] | Total Antimony (Sb)     | 2013/07/26                  |        | 90       | %     | 75 - 125  |
|             |                          | Total Arsenic (As)      | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                          | Total Barium (Ba)       | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                          | Total Beryllium (Be)    | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                          | Total Cadmium (Cd)      | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                          | Total Chromium (Cr)     | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                          | Total Cobalt (Co)       | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                          | Total Copper (Cu)       | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                          | Total Lead (Pb)         | 2013/07/26                  |        | 88       | %     | 75 - 125  |
|             |                          | Total Mercury (Hg)      | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                          | Total Molybdenum (Mo)   | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                          | Total Nickel (Ni)       | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                          | Total Selenium (Se)     | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                          | Total Silver (Ag)       | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                          | Total Thallium (Tl)     | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                          | Total Tin (Sn)          | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                          | Total Uranium (U)       | 2013/07/26                  |        | 82       | %     | 75 - 125  |
|             |                          | Total Vanadium (V)      | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                          | Total Zinc (Zn)         | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             | QC Standard              | Total Arsenic (As)      | 2013/07/26                  |        | 119      | %     | 50 - 150  |
|             |                          | Total Barium (Ba)       | 2013/07/26                  |        | 115      | %     | 69 - 131  |
|             |                          | Total Chromium (Cr)     | 2013/07/26                  |        | 109      | %     | 41 - 159  |
|             |                          | Total Cobalt (Co)       | 2013/07/26                  |        | 104      | %     | 75 - 125  |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch           | QC Type               | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS    | QC Limits |  |
|-----------------------|-----------------------|-----------------------|-----------------------------|--------|----------|----------|-----------|--|
| 7024662 SF3           | QC Standard           | Total Copper (Cu)     | 2013/07/26                  |        | 106      | %        | 73 - 127  |  |
|                       |                       | Total Lead (Pb)       | 2013/07/26                  |        | 101      | %        | 54 - 146  |  |
|                       |                       | Total Nickel (Ni)     | 2013/07/26                  |        | 115      | %        | 61 - 139  |  |
|                       |                       | Total Vanadium (V)    | 2013/07/26                  |        | 125      | %        | 50 - 150  |  |
|                       | Spiked Blank          | Total Zinc (Zn)       | 2013/07/26                  |        | 109      | %        | 72 - 128  |  |
|                       |                       | Total Antimony (Sb)   | 2013/07/26                  |        | 92       | %        | 75 - 125  |  |
|                       |                       | Total Arsenic (As)    | 2013/07/26                  |        | 93       | %        | 75 - 125  |  |
|                       |                       | Total Barium (Ba)     | 2013/07/26                  |        | 96       | %        | 75 - 125  |  |
|                       |                       | Total Beryllium (Be)  | 2013/07/26                  |        | 94       | %        | 75 - 125  |  |
|                       |                       | Total Cadmium (Cd)    | 2013/07/26                  |        | 92       | %        | 75 - 125  |  |
|                       |                       | Total Chromium (Cr)   | 2013/07/26                  |        | 92       | %        | 75 - 125  |  |
|                       |                       | Total Cobalt (Co)     | 2013/07/26                  |        | 91       | %        | 75 - 125  |  |
|                       |                       | Total Copper (Cu)     | 2013/07/26                  |        | 91       | %        | 75 - 125  |  |
|                       |                       | Total Lead (Pb)       | 2013/07/26                  |        | 88       | %        | 75 - 125  |  |
|                       |                       | Total Mercury (Hg)    | 2013/07/26                  |        | 88       | %        | 75 - 125  |  |
|                       |                       | Total Molybdenum (Mo) | 2013/07/26                  |        | 95       | %        | 75 - 125  |  |
|                       |                       | Total Nickel (Ni)     | 2013/07/26                  |        | 91       | %        | 75 - 125  |  |
|                       |                       | Total Selenium (Se)   | 2013/07/26                  |        | 92       | %        | 75 - 125  |  |
|                       |                       | Total Silver (Ag)     | 2013/07/26                  |        | 93       | %        | 75 - 125  |  |
|                       |                       | Total Thallium (Tl)   | 2013/07/26                  |        | 94       | %        | 75 - 125  |  |
|                       |                       | Total Tin (Sn)        | 2013/07/26                  |        | 96       | %        | 75 - 125  |  |
|                       |                       | Total Uranium (U)     | 2013/07/26                  |        | 82       | %        | 75 - 125  |  |
|                       | Total Vanadium (V)    | 2013/07/26            |                             | 94     | %        | 75 - 125 |           |  |
|                       | Total Zinc (Zn)       | 2013/07/26            |                             | 91     | %        | 75 - 125 |           |  |
|                       | Method Blank          | Total Antimony (Sb)   | 2013/07/26                  |        | <1.0     |          | mg/kg     |  |
|                       |                       | Total Arsenic (As)    | 2013/07/26                  |        | <1.0     |          | mg/kg     |  |
|                       |                       | Total Barium (Ba)     | 2013/07/26                  |        | <10      |          | mg/kg     |  |
|                       |                       | Total Beryllium (Be)  | 2013/07/26                  |        | <0.40    |          | mg/kg     |  |
|                       |                       | Total Cadmium (Cd)    | 2013/07/26                  |        | <0.10    |          | mg/kg     |  |
|                       |                       | Total Chromium (Cr)   | 2013/07/26                  |        | <1.0     |          | mg/kg     |  |
|                       |                       | Total Cobalt (Co)     | 2013/07/26                  |        | <1.0     |          | mg/kg     |  |
|                       |                       | Total Copper (Cu)     | 2013/07/26                  |        | <5.0     |          | mg/kg     |  |
| Total Lead (Pb)       |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| Total Mercury (Hg)    |                       | 2013/07/26            |                             | <0.050 |          | mg/kg    |           |  |
| Total Molybdenum (Mo) |                       | 2013/07/26            |                             | <0.40  |          | mg/kg    |           |  |
| Total Nickel (Ni)     |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| Total Selenium (Se)   |                       | 2013/07/26            |                             | <0.50  |          | mg/kg    |           |  |
| Total Silver (Ag)     |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| Total Thallium (Tl)   |                       | 2013/07/26            |                             | <0.30  |          | mg/kg    |           |  |
| Total Tin (Sn)        |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| Total Uranium (U)     |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| Total Vanadium (V)    |                       | 2013/07/26            |                             | <1.0   |          | mg/kg    |           |  |
| RPD [GZ1946-01]       | Total Zinc (Zn)       | 2013/07/26            |                             | <10    |          | mg/kg    |           |  |
|                       | Total Antimony (Sb)   | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Arsenic (As)    | 2013/07/26            |                             | 12.1   |          | %        | 35        |  |
|                       | Total Barium (Ba)     | 2013/07/26            |                             | 6.0    |          | %        | 35        |  |
|                       | Total Beryllium (Be)  | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Cadmium (Cd)    | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Chromium (Cr)   | 2013/07/26            |                             | 21.1   |          | %        | 35        |  |
|                       | Total Cobalt (Co)     | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Copper (Cu)     | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Lead (Pb)       | 2013/07/26            |                             | 4.3    |          | %        | 35        |  |
|                       | Total Mercury (Hg)    | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Molybdenum (Mo) | 2013/07/26            |                             | NC     |          | %        | 35        |  |
|                       | Total Nickel (Ni)     | 2013/07/26            |                             | 17.1   |          | %        | 35        |  |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                | Date Analyzed<br>yyyy/mm/dd   | Value      | Recovery | UNITS | QC Limits |          |
|-------------|-----------------|--------------------------|-------------------------------|------------|----------|-------|-----------|----------|
| 7024662 SF3 | RPD [GZ1946-01] | Total Selenium (Se)      | 2013/07/26                    | NC         |          | %     | 35        |          |
|             |                 | Total Silver (Ag)        | 2013/07/26                    | NC         |          | %     | 35        |          |
|             |                 | Total Thallium (Tl)      | 2013/07/26                    | NC         |          | %     | 35        |          |
|             |                 | Total Tin (Sn)           | 2013/07/26                    | NC         |          | %     | 35        |          |
|             |                 | Total Uranium (U)        | 2013/07/26                    | NC         |          | %     | 35        |          |
|             |                 | Total Vanadium (V)       | 2013/07/26                    | 5.8        |          | %     | 35        |          |
| 7024739 JSM | Matrix Spike    | Soluble Calcium (Ca)     | 2013/07/26                    |            | 109      | %     | 75 - 125  |          |
|             |                 | Soluble Magnesium (Mg)   | 2013/07/26                    |            | 121      | %     | 75 - 125  |          |
|             | QC Standard     | Soluble Sodium (Na)      | 2013/07/26                    |            | NC       | %     | 75 - 125  |          |
|             |                 | Soluble Potassium (K)    | 2013/07/26                    |            | 116      | %     | 75 - 125  |          |
|             |                 | Soluble Calcium (Ca)     | 2013/07/26                    |            | 112      | %     | 75 - 125  |          |
|             |                 | Soluble Magnesium (Mg)   | 2013/07/26                    |            | 115      | %     | 75 - 125  |          |
|             |                 | Soluble Sodium (Na)      | 2013/07/26                    |            | 110      | %     | 75 - 125  |          |
|             |                 | Soluble Potassium (K)    | 2013/07/26                    |            | 108      | %     | 75 - 125  |          |
|             | Spiked Blank    | Soluble Sulphate (SO4)   | 2013/07/26                    |            | 119      | %     | 78 - 122  |          |
|             |                 | Soluble Calcium (Ca)     | 2013/07/26                    |            | 99       | %     | 75 - 125  |          |
|             |                 | Soluble Magnesium (Mg)   | 2013/07/26                    |            | 109      | %     | 75 - 125  |          |
|             |                 | Soluble Sodium (Na)      | 2013/07/26                    |            | 109      | %     | 75 - 125  |          |
|             | Method Blank    | Soluble Potassium (K)    | 2013/07/26                    |            | 105      | %     | 75 - 125  |          |
|             |                 | Soluble Calcium (Ca)     | 2013/07/26                    | <1.5       |          | mg/L  |           |          |
|             |                 | Soluble Magnesium (Mg)   | 2013/07/26                    | <1.0       |          | mg/L  |           |          |
|             |                 | Soluble Sodium (Na)      | 2013/07/26                    | <2.5       |          | mg/L  |           |          |
|             |                 | Soluble Potassium (K)    | 2013/07/26                    | <1.3       |          | mg/L  |           |          |
|             |                 | Soluble Sulphate (SO4)   | 2013/07/26                    | <5.0       |          | mg/L  |           |          |
|             | RPD             | Soluble Calcium (Ca)     | 2013/07/26                    |            | 14.5     | %     | 35        |          |
|             |                 | Soluble Magnesium (Mg)   | 2013/07/26                    |            | 12.7     | %     | 35        |          |
|             |                 | Soluble Sodium (Na)      | 2013/07/26                    |            | 3.5      | %     | 35        |          |
|             |                 | Soluble Potassium (K)    | 2013/07/26                    |            | 5.1      | %     | 35        |          |
|             |                 | Soluble Sulphate (SO4)   | 2013/07/26                    |            | 7.3      | %     | 35        |          |
|             | 7024833 NC3     | Matrix Spike [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26 |          | 103   | %         | 75 - 125 |
|             |                 | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26 |          | 100   | %         | 75 - 125 |
|             |                 | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26 | <0.10    |       | mg/kg     |          |
|             |                 | RPD [GZ1928-01]          | Soluble (Hot water) Boron (B) | 2013/07/26 | NC       |       | %         | 35       |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

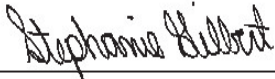
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



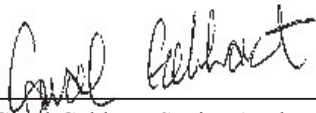
Stephanie Gilbert, Senior Analyst



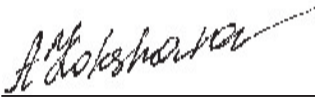
Poonam Sharma, Senior Analyst, Organics Department



Daniel Reslan, Volatiles Supervisor



Carol Gebhart, Senior Analyst



Anna Koksharova, Senior Analyst

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.











Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (1)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

-2-

Encryption Key



Tanya Eugene

26 Jul 2013 18:20:50 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 7.6     | 27      | 7.8     | 12      | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 29      | <10     | 190     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 650     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 230     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 0.028   | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 117     | 106     | 109     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 102     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 120     | 124     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 100     | 99      | 101     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 92      | 103     | 94      | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1930              | GZ1932              | GZ1933              | GZ1934                         |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 7.5     | 6.3     | 8.5     | 2.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10     | 16      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 70      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 105     | 107     | 106     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 97      | 97      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 128     | 126     | 126     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 99      | 100     | 98      | 98      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 93      | 101     | 103     | 105     | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 3.7     | 3.5     | 9.7     | 5.9     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 65      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 51      | <50     | 100     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 60      | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 103     | 105     | 107     | 100     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 101     | 98      | 92      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 123     | 124     | 124     | 125     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 102     | 102     | 97      | 94      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 98      | 107     | 106     | 106     | N/A    | 7011232 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         |            |                 |
|---------------|--------------|-------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             | A134515       | A134515                        | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture   | %     | 4.3     | 2.9     | 2.7     | 5.2     | 3.6     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | 23      | 26      | 14      | <10     | 58      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | 67      | 67      | 130     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>   |       |         |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene  | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 105     | 101     | 105     | 106     | 104     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 102     | 100     | 100     | 101     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 125     | 122     | 127     | 130     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 102     | 101     | 100     | 101     | 101     | N/A    | 7012055 |
| O-TERPHENYL (sur.)                                       | %     | 105     | 95      | 101     | 106     | 106     | N/A    | 7011232 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |  |            |                 |
|---------------|--------------|--|------------|-----------------|
| Maxxam ID     |              | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |        |         |
|--|-------|---------|--------|---------|
| Moisture   | %     | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 50     | 7019559 |
| Reached Baseline at C50                                  | mg/kg | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>   |       |         |        |         |
| Benzene  | mg/kg | <0.0050 | 0.0050 | 7022378 |
| Toluene  | mg/kg | <0.020  | 0.020  | 7022378 |
| Ethylbenzene   | mg/kg | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)  | mg/kg | <0.040  | 0.040  | 7022378 |
| m & p-Xylene   | mg/kg | <0.040  | 0.040  | 7022378 |
| o-Xylene   | mg/kg | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 12     | 7022378 |
| (C6-C10)   | mg/kg | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b>                            |       |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)                                       | %     | 86      | N/A    | 7019559 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |        |         |

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              |            | GZ1926              |            | GZ1927              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 |            | 2013/07/19<br>16:35 |            | 2013/07/19<br>16:40 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>RDL</b> | <b>N WALL#2</b>     | <b>RDL</b> | <b>N WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928              |            | GZ1930              |            | GZ1932              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50 |            | 2013/07/19<br>17:00 |            | 2013/07/19<br>17:20 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#4</b>     | <b>RDL</b> | <b>W WALL#1</b>     | <b>RDL</b> | <b>W WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |              | GZ1933              |            | GZ1934                         |            |                 | GZ1935                         |            |                 |
|---------------|--------------|---------------------|------------|--------------------------------|------------|-----------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30 |            | 2013/07/19<br>14:30            |            |                 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             |            | A134514                        |            |                 | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#4</b>     | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 6.5   | N/A   | 1.3   | N/A   | 7007666 | 1.2   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 8.9   | N/A   | 3.7   | N/A   | 7007666 | 3.9   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 7007661 | 11    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 | 3.4   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 37    | 0.59  | 11    | 0.39  | 7007668 | 13    | 0.45  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 14    | 0.39  | 1.8   | 0.26  | 7007668 | 1.8   | 0.30  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 | 4.0   | 0.76  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 | 8.4   | 0.39  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 | 2.1   | 1.5   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 110   | 2.0   | 13    | 1.3   | 7007668 | 14    | 1.5   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 8.6   | 5.0   | 7024579 | 6.9   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.63  | N/A   | 7.59  | N/A   | 7023896 | 7.67  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 | 0.50  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 95    | 1.5   | 42    | 1.5   | 7024739 | 43    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 37    | 1.0   | 6.7   | 1.0   | 7024739 | 5.9   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 20    | 2.5   | 16    | 2.5   | 7024739 | 13    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 8.3   | 1.3   | 13    | 1.3   | 7024739 | 28    | 1.3   | 7024739 |
| Saturation %                   | %         | 39    | N/A   | 26    | N/A   | 7019899 | 30    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 290   | 5.0   | 51    | 5.0   | 7024739 | 47    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |            |                                |            |                                     |            |                 |
|---------------|--------------|--------------------------------|------------|--------------------------------|------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1936                         |            | GZ1937                         |            | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            |            | 2013/07/19<br>14:30            |            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        |            | A134514                        |            | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |       |       |       |       |         |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                        | meq/L     | 1.1   | N/A   | 3.7   | N/A   | 3.1   | N/A   | 7009893 |
| Cation Sum                       | meq/L     | 4.1   | N/A   | 5.0   | N/A   | 6.7   | N/A   | 7009893 |
| Cation/EC Ratio                  | N/A       | 11    | 0.10  | 12    | 0.10  | 8.7   | 0.10  | 7009885 |
| Ion Balance                      | N/A       | 3.9   | 0.010 | 1.3   | 0.010 | 2.1   | 0.010 | 7009891 |
| Calculated Calcium (Ca)          | mg/kg     | 19    | 0.54  | 13    | 0.42  | 25    | 0.45  | 7009895 |
| Calculated Magnesium (Mg)        | mg/kg     | 2.5   | 0.36  | 2.8   | 0.28  | 3.4   | 0.30  | 7009895 |
| Calculated Sodium (Na)           | mg/kg     | 4.4   | 0.91  | 8.5   | 0.70  | 4.8   | 0.74  | 7009895 |
| Calculated Potassium (K)         | mg/kg     | 4.8   | 0.47  | 4.6   | 0.36  | 8.8   | 0.39  | 7009895 |
| Calculated Chloride (Cl)         | mg/kg     | 2.8   | 1.8   | 9.7   | 1.4   | 4.4   | 1.5   | 7009895 |
| Calculated Sulphate (SO4)        | mg/kg     | 15    | 1.8   | 37    | 1.4   | 39    | 1.5   | 7009895 |
| <b>Soluble Parameters</b>        |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | 7.8   | 5.0   | 35    | 5.0   | 15    | 5.0   | 7024579 |
| Soluble Conductivity             | dS/m      | 0.37  | 0.020 | 0.42  | 0.020 | 0.76  | 0.020 | 7020744 |
| Soluble (CaCl2) pH               | N/A       | 7.63  | N/A   | 7.50  | N/A   | 7.79  | N/A   | 7023896 |
| Sodium Adsorption Ratio          | N/A       | 0.41  | 0.10  | 1.1   | 0.10  | 0.43  | 0.10  | 7009894 |
| Soluble Calcium (Ca)             | mg/L      | 54    | 1.5   | 48    | 1.5   | 85    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)           | mg/L      | 6.8   | 1.0   | 10    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)              | mg/L      | 12    | 2.5   | 31    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)            | mg/L      | 13    | 1.3   | 16    | 1.3   | 30    | 1.3   | 7024739 |
| Saturation %                     | %         | 36    | N/A   | 28    | N/A   | 30    | N/A   | 7019899 |
| Soluble Sulphate (SO4)           | mg/L      | 40    | 5.0   | 130   | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |
| RDL = Reportable Detection Limit |           |       |       |       |       |       |       |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |       | GZ1939                     | GZ1943     |     | GZ1946                 |     | GZ1947                 |     |          |
|---------------|-------|----------------------------|------------|-----|------------------------|-----|------------------------|-----|----------|
| Sampling Date |       | 2013/07/19                 | 2013/07/19 |     | 2013/07/19             |     | 2013/07/19             |     |          |
| COC Number    |       | A134515                    | A134515    |     | A134515                |     | A134515                |     |          |
|               | UNITS | PILE#1<br>MIDDLE<br>E SIDE | PILE#2     | RDL | PILE#3 E<br>SIDE N END | RDL | PILE#3 W<br>SIDE S END | RDL | QC Batch |

| Calculated Parameters          |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 0.34  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 1.3   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 3.7   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 12    | 0.39  | 9.9   | 0.38  | 2.6   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 0.47  | 0.25  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 3.2   | 0.63  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 0.72  | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | <1.3  | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 4.2   | 1.3   | 7009895 |
| Soluble Parameters             |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 21    | 5.6   | 5.0   | 5.4   | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 0.11  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 6.88  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 0.95  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 57    | 45    | 1.5   | 39    | 1.5   | 10    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 1.8   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 15    | 13    | 2.5   | 14    | 2.5   | 13    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 2.8   | 1.3   | 7024739 |
| Saturation %                   | %         | 26    | 26    | N/A   | 26    | N/A   | 25    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 100   | 24    | 5.0   | 19    | 5.0   | 16    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |                     |                     |                                |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1932              | GZ1933              | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |       |       |         |
|-------------------------------|-------|--------|--------|--------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.18   | 0.12   | 0.59   | 0.19  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.0    | 5.0    | 5.8    | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 240    | 79     | 100    | 2300  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | 0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 9.2    | 12     | 7.2    | 37    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.8    | 3.6    | 4.3    | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | <5.0   | <5.0   | 7.8   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 3.4    | 3.0    | 3.6    | 18    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | 0.058 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.56   | 0.51   | 0.54   | 1.1   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 12     | 12     | 21    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12     | 12     | 14     | 13    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 25     | 28     | 29    | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

| Maxxam ID     |              | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134515                             | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.13  | 0.16  | 0.12  | 0.19  | 0.13  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 4.2   | 6.3   | 3.7   | 5.0   | 5.5   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 2600  | 2700  | 630   | 2600  | 1100  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | 0.12  | <0.10 | <0.10 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 12    | 8.8   | 27    | 24    | 18    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.5   | 2.9   | 1.2   | 1.8   | 2.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 5.8   | 8.1   | <5.0  | 5.6   | <5.0  | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 19    | 39    | 8.5   | 15    | 9.7   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.063 | 0.072 | 0.051 | 0.053 | 0.063 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.49  | 0.89  | 0.73  | 0.76  | 0.70  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 7.2   | 7.4   | 13    | 12    | 11    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11    | 15    | 12    | 14    | 11    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 23    | 33    | <10   | 18    | <10   | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |               |                                |                                |                                |                 |  |            |                 |
|---------------|--------------|---------------|--------------------------------|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515       | A134515                        | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.16   | 0.17   | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.3    | 6.1    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 730    | 480    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.9    | 15     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 2.3    | 3.3    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.7    | 6.6    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 9.0    | 12     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.72   | 0.70   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 7.2    | 12     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 13     | 15     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 20     | 24     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1931              | GZ1932              | GZ1933              |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:10 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#2</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |                                |                                |                                |                                     |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |        |      |         |  |
|----------------------------------|---|--------|--------|--------|--------|--------|------|---------|--|
| <b>Physical Properties</b>       |   |        |        |        |        |        |      |         |  |
| Sieve - Pan                      | % | 7.0    | 3.8    | 5.6    | 2.8    | 4.0    | 0.20 | 7019555 |  |
| Sieve - #200 (>0.075mm)          | % | 93     | 96     | 94     | 97     | 96     | 0.20 | 7019555 |  |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |  |
| RDL = Reportable Detection Limit |   |        |        |        |        |        |      |         |  |

|               |              |                                     |               |                                |                                |                                |  |            |                 |
|---------------|--------------|-------------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                             | A134515       | A134515                        | A134515                        | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |        |        |      |         |
|----------------------------------|---|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b>       |   |        |        |        |        |        |        |      |         |
| Sieve - Pan                      | % | 1.3    | 6.9    | 9.8    | 3.7    | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 99     | 93     | 90     | 96     | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |        |        |        |        |      |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362533  
Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

Maxxam Analytics - Partial/Rush Results

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch               | QC Type                         | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |          |
|---------------------------|---------------------------------|------------------------------|-----------------------------|-------|----------|-------|-----------|----------|
| 7011232 KN0               | Matrix Spike<br>[GZ1928-01]     | O-TERPHENYL (sur.)           | 2013/07/25                  |       | 98       | %     | 50 - 130  |          |
|                           |                                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |       | 98       | %     | 50 - 130  |          |
|                           |                                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |       | 102      | %     | 50 - 130  |          |
|                           |                                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |       | 100      | %     | 50 - 130  |          |
|                           | Spiked Blank                    | O-TERPHENYL (sur.)           | 2013/07/25                  |       |          | 102   | %         | 50 - 130 |
|                           |                                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |       |          | 116   | %         | 70 - 130 |
|                           |                                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |       |          | 117   | %         | 70 - 130 |
|                           |                                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |       |          | 113   | %         | 70 - 130 |
|                           | Method Blank                    | O-TERPHENYL (sur.)           | 2013/07/25                  |       |          | 98    | %         | 50 - 130 |
|                           |                                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |       | <10      |       | mg/kg     |          |
|                           |                                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |       | <50      |       | mg/kg     |          |
|                           |                                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |       | <50      |       | mg/kg     |          |
|                           | RPD [GZ1927-01]                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |       | NC       |       | %         | 50       |
|                           |                                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |       | NC       |       | %         | 50       |
| F4 (C34-C50 Hydrocarbons) |                                 | 2013/07/25                   |                             | NC    |          | %     | 50        |          |
|                           |                                 |                              |                             |       |          |       |           |          |
| 7011691 KD5               | Matrix Spike<br>[GZ1933-01]     | Hex. Chromium (Cr 6+)        | 2013/07/23                  |       | 82       | %     | 75 - 125  |          |
|                           |                                 | Spiked Blank                 | 2013/07/23                  |       | 101      | %     | 90 - 110  |          |
|                           | Method Blank<br>RPD [GZ1933-01] | Hex. Chromium (Cr 6+)        | 2013/07/23                  |       | <0.15    |       | mg/kg     |          |
|                           |                                 | Hex. Chromium (Cr 6+)        | 2013/07/23                  |       | NC       |       | %         | 35       |
| 7012055 CG7               | Matrix Spike<br>[GZ1926-01]     | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |       | 115      | %     | 60 - 140  |          |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |       | 100      | %     | 60 - 140  |          |
|                           |                                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |       | 120      | %     | 60 - 130  |          |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |       | 102      | %     | 60 - 140  |          |
|                           |                                 | Benzene                      | 2013/07/25                  |       | 96       | %     | 60 - 140  |          |
|                           |                                 | Toluene                      | 2013/07/25                  |       | 93       | %     | 60 - 140  |          |
|                           |                                 | Ethylbenzene                 | 2013/07/25                  |       | 90       | %     | 60 - 140  |          |
|                           |                                 | m & p-Xylene                 | 2013/07/25                  |       | 91       | %     | 60 - 140  |          |
|                           |                                 | o-Xylene                     | 2013/07/25                  |       | 90       | %     | 60 - 140  |          |
|                           |                                 | (C6-C10)                     | 2013/07/25                  |       | 86       | %     | 60 - 140  |          |
|                           | Spiked Blank                    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |       |          | 119   | %         | 60 - 140 |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |       |          | 96    | %         | 60 - 140 |
|                           |                                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |       |          | 119   | %         | 60 - 130 |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |       |          | 119   | %         | 60 - 140 |
|                           |                                 | Benzene                      | 2013/07/25                  |       |          | 112   | %         | 60 - 140 |
|                           |                                 | Toluene                      | 2013/07/25                  |       |          | 94    | %         | 60 - 140 |
|                           |                                 | Ethylbenzene                 | 2013/07/25                  |       |          | 91    | %         | 60 - 140 |
|                           |                                 | m & p-Xylene                 | 2013/07/25                  |       |          | 94    | %         | 60 - 140 |
|                           |                                 | o-Xylene                     | 2013/07/25                  |       |          | 93    | %         | 60 - 140 |
|                           |                                 | (C6-C10)                     | 2013/07/25                  |       |          | 88    | %         | 60 - 140 |
|                           | Method Blank                    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |       |          | 115   | %         | 60 - 140 |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |       |          | 79    | %         | 60 - 140 |
|                           |                                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |       |          | 127   | %         | 60 - 130 |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |       |          | 111   | %         | 60 - 140 |
|                           |                                 | Benzene                      | 2013/07/25                  |       | <0.0050  |       | mg/kg     |          |
|                           |                                 | Toluene                      | 2013/07/25                  |       | <0.020   |       | mg/kg     |          |
|                           |                                 | Ethylbenzene                 | 2013/07/25                  |       | <0.010   |       | mg/kg     |          |
|                           |                                 | Xylenes (Total)              | 2013/07/25                  |       | <0.040   |       | mg/kg     |          |
|                           |                                 | m & p-Xylene                 | 2013/07/25                  |       | <0.040   |       | mg/kg     |          |
|                           |                                 | o-Xylene                     | 2013/07/25                  |       | <0.020   |       | mg/kg     |          |
|                           | RPD [GZ1925-01]                 | F1 (C6-C10) - BTEX           | 2013/07/25                  |       | <12      |       | mg/kg     |          |
|                           |                                 | (C6-C10)                     | 2013/07/25                  |       | <12      |       | mg/kg     |          |
|                           |                                 | Benzene                      | 2013/07/25                  |       | NC       |       | %         | 50       |
|                           |                                 |                              |                             |       |          |       |           |          |
|                           |                                 |                              |                             |       |          |       |           |          |
|                           |                                 |                              |                             |       |          |       |           |          |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|---------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25    | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23    | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23    | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25    |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25    | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25    | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | 1.3    |          | %     | 35        |
| 7019559 KN0 | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26    |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26    | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25    | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26    |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26    |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26    | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26    | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25    |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25    |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25    | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROENZENE (sur.)   | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25    |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25    |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25    |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25    |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25    |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROENZENE (sur.)   | 2013/07/25    |        | 93       | %     | 60 - 140  |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch Num Init | QC Type | Parameter          | Date Analyzed yyyy/mm/dd     | Value                       | Recovery   | UNITS | QC Limits |          |
|----------------------|---------|--------------------|------------------------------|-----------------------------|------------|-------|-----------|----------|
| 7022378              | YS5     | Spiked Blank       | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95 %  | 60 - 130  |          |
|                      |         |                    | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93 %  | 60 - 140  |          |
|                      |         |                    | Benzene                      | 2013/07/25                  |            | 108 % | 60 - 140  |          |
|                      |         |                    | Toluene                      | 2013/07/25                  |            | 95 %  | 60 - 140  |          |
|                      |         |                    | Ethylbenzene                 | 2013/07/25                  |            | 96 %  | 60 - 140  |          |
|                      |         |                    | m & p-Xylene                 | 2013/07/25                  |            | 100 % | 60 - 140  |          |
|                      |         |                    | o-Xylene                     | 2013/07/25                  |            | 95 %  | 60 - 140  |          |
|                      |         |                    | (C6-C10)                     | 2013/07/25                  |            | 94 %  | 60 - 140  |          |
|                      |         | Method Blank       |                              | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |       | 104 %     | 60 - 140 |
|                      |         |                    |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |       | 97 %      | 60 - 140 |
|                      |         |                    | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 103 % | 60 - 130  |          |
|                      |         |                    | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 99 %  | 60 - 140  |          |
|                      |         |                    | Benzene                      | 2013/07/25                  | <0.0050    |       | mg/kg     |          |
|                      |         |                    | Toluene                      | 2013/07/25                  | <0.020     |       | mg/kg     |          |
|                      |         |                    | Ethylbenzene                 | 2013/07/25                  | <0.010     |       | mg/kg     |          |
|                      |         |                    | Xylenes (Total)              | 2013/07/25                  | <0.040     |       | mg/kg     |          |
|                      |         |                    | m & p-Xylene                 | 2013/07/25                  | <0.040     |       | mg/kg     |          |
|                      |         |                    | o-Xylene                     | 2013/07/25                  | <0.020     |       | mg/kg     |          |
|                      |         |                    | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |       | mg/kg     |          |
|                      |         |                    | (C6-C10)                     | 2013/07/25                  | <12        |       | mg/kg     |          |
|                      | RPD     |                    |                              | Benzene                     | 2013/07/25 | NC    |           | %        |
|                      |         |                    | Toluene                      | 2013/07/25                  | NC         |       | %         | 50       |
|                      |         |                    | Ethylbenzene                 | 2013/07/25                  | NC         |       | %         | 50       |
|                      |         | Xylenes (Total)    | 2013/07/25                   | NC                          |            | %     | 50        |          |
|                      |         | m & p-Xylene       | 2013/07/25                   | NC                          |            | %     | 50        |          |
|                      |         | o-Xylene           | 2013/07/25                   | NC                          |            | %     | 50        |          |
|                      |         | F1 (C6-C10) - BTEX | 2013/07/25                   | NC                          |            | %     | 50        |          |
|                      |         | (C6-C10)           | 2013/07/25                   | NC                          |            | %     | 50        |          |
| 7022580              |         | AD7                | QC Standard                  | Saturation %                | 2013/07/26 |       | 103 %     | 93 - 107 |
|                      |         | RPD                | Saturation %                 | 2013/07/26                  | 0.9        |       | %         | 12       |
| 7022770              | SSF     | QC Standard        | Soluble Conductivity         | 2013/07/26                  |            | 104 % | 85 - 115  |          |
|                      |         | Spiked Blank       | Soluble Conductivity         | 2013/07/26                  |            | 101 % | 90 - 110  |          |
|                      |         | Method Blank       | Soluble Conductivity         | 2013/07/26                  | <0.020     |       | dS/m      |          |
| 7023896              | SSF     | RPD                | Soluble Conductivity         | 2013/07/26                  | 24.1       |       | %         |          |
|                      |         | QC Standard        | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102 % | 97 - 103  |          |
| 7024524              |         | Spiked Blank       | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100 % | 97 - 103  |          |
|                      |         | RPD [GZ1932-01]    | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |       | %         |          |
|                      |         | Matrix Spike       | Hex. Chromium (Cr 6+)        | 2013/07/26                  |            | 86 %  | 75 - 125  |          |
| 7024579              |         | Spiked Blank       | Hex. Chromium (Cr 6+)        | 2013/07/26                  |            | 99 %  | 90 - 110  |          |
|                      |         | Method Blank       | Hex. Chromium (Cr 6+)        | 2013/07/26                  | <0.15      |       | mg/kg     |          |
|                      |         | RPD                | Hex. Chromium (Cr 6+)        | 2013/07/26                  | NC         |       | %         |          |
|                      |         | Matrix Spike       | Soluble Chloride (Cl)        | 2013/07/26                  |            | 102 % | 75 - 125  |          |
| 7024662              |         | QC Standard        | Soluble Chloride (Cl)        | 2013/07/26                  |            | 92 %  | 75 - 125  |          |
|                      |         | Spiked Blank       | Soluble Chloride (Cl)        | 2013/07/26                  |            | 101 % | 75 - 125  |          |
|                      |         | Method Blank       | Soluble Chloride (Cl)        | 2013/07/26                  | <5.0       |       | mg/L      |          |
|                      |         | RPD                | Soluble Chloride (Cl)        | 2013/07/26                  | NC         |       | %         |          |
|                      |         | Matrix Spike       | Soluble Chloride (Cl)        | 2013/07/26                  |            | 90 %  | 75 - 125  |          |
| SF3                  |         | [GZ1946-01]        | Total Antimony (Sb)          | 2013/07/26                  |            | 93 %  | 75 - 125  |          |
|                      |         |                    | Total Arsenic (As)           | 2013/07/26                  |            | 93 %  | 75 - 125  |          |
|                      |         |                    | Total Barium (Ba)            | 2013/07/26                  |            | NC %  | 75 - 125  |          |
|                      |         |                    | Total Beryllium (Be)         | 2013/07/26                  |            | 93 %  | 75 - 125  |          |
|                      |         |                    | Total Cadmium (Cd)           | 2013/07/26                  |            | 92 %  | 75 - 125  |          |
|                      |         |                    | Total Chromium (Cr)          | 2013/07/26                  |            | 96 %  | 75 - 125  |          |
|                      |         |                    | Total Cobalt (Co)            | 2013/07/26                  |            | 92 %  | 75 - 125  |          |
|                      |         |                    | Total Copper (Cu)            | 2013/07/26                  |            | 92 %  | 75 - 125  |          |

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## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type                     | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------------------|-----------------------|-----------------------------|--------|----------|-------|-----------|
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Lead (Pb)       | 2013/07/26                  |        | 88       | %     | 75 - 125  |
|             |                             | Total Mercury (Hg)    | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                             | Total Molybdenum (Mo) | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                             | Total Nickel (Ni)     | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                             | Total Selenium (Se)   | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                             | Total Silver (Ag)     | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                             | Total Thallium (Tl)   | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                             | Total Tin (Sn)        | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                             | Total Uranium (U)     | 2013/07/26                  |        | 82       | %     | 75 - 125  |
|             |                             | Total Vanadium (V)    | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                             | Total Zinc (Zn)       | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             | QC Standard                 | Total Arsenic (As)    | 2013/07/26                  |        | 119      | %     | 50 - 150  |
|             |                             | Total Barium (Ba)     | 2013/07/26                  |        | 115      | %     | 69 - 131  |
|             |                             | Total Chromium (Cr)   | 2013/07/26                  |        | 109      | %     | 41 - 159  |
|             |                             | Total Cobalt (Co)     | 2013/07/26                  |        | 104      | %     | 75 - 125  |
|             |                             | Total Copper (Cu)     | 2013/07/26                  |        | 106      | %     | 73 - 127  |
|             |                             | Total Lead (Pb)       | 2013/07/26                  |        | 101      | %     | 54 - 146  |
|             |                             | Total Nickel (Ni)     | 2013/07/26                  |        | 115      | %     | 61 - 139  |
|             |                             | Total Vanadium (V)    | 2013/07/26                  |        | 125      | %     | 50 - 150  |
|             |                             | Total Zinc (Zn)       | 2013/07/26                  |        | 109      | %     | 72 - 128  |
|             | Spiked Blank                | Total Antimony (Sb)   | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                             | Total Arsenic (As)    | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                             | Total Barium (Ba)     | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                             | Total Beryllium (Be)  | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                             | Total Cadmium (Cd)    | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                             | Total Chromium (Cr)   | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                             | Total Cobalt (Co)     | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                             | Total Copper (Cu)     | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                             | Total Lead (Pb)       | 2013/07/26                  |        | 88       | %     | 75 - 125  |
|             |                             | Total Mercury (Hg)    | 2013/07/26                  |        | 88       | %     | 75 - 125  |
|             |                             | Total Molybdenum (Mo) | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                             | Total Nickel (Ni)     | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                             | Total Selenium (Se)   | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             |                             | Total Silver (Ag)     | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                             | Total Thallium (Tl)   | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                             | Total Tin (Sn)        | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                             | Total Uranium (U)     | 2013/07/26                  |        | 82       | %     | 75 - 125  |
|             |                             | Total Vanadium (V)    | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                             | Total Zinc (Zn)       | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             | Method Blank                | Total Antimony (Sb)   | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Arsenic (As)    | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Barium (Ba)     | 2013/07/26                  | <10    |          | mg/kg |           |
|             |                             | Total Beryllium (Be)  | 2013/07/26                  | <0.40  |          | mg/kg |           |
|             |                             | Total Cadmium (Cd)    | 2013/07/26                  | <0.10  |          | mg/kg |           |
|             |                             | Total Chromium (Cr)   | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Cobalt (Co)     | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Copper (Cu)     | 2013/07/26                  | <5.0   |          | mg/kg |           |
|             |                             | Total Lead (Pb)       | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Mercury (Hg)    | 2013/07/26                  | <0.050 |          | mg/kg |           |
|             |                             | Total Molybdenum (Mo) | 2013/07/26                  | <0.40  |          | mg/kg |           |
|             |                             | Total Nickel (Ni)     | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Selenium (Se)   | 2013/07/26                  | <0.50  |          | mg/kg |           |
|             |                             | Total Silver (Ag)     | 2013/07/26                  | <1.0   |          | mg/kg |           |
|             |                             | Total Thallium (Tl)   | 2013/07/26                  | <0.30  |          | mg/kg |           |



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## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch            | QC Type                  | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|------------------------|--------------------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 7024662 SF3            | Method Blank             | Total Tin (Sn)                | 2013/07/26                  | <1.0  |          | mg/kg |           |
|                        |                          | Total Uranium (U)             | 2013/07/26                  | <1.0  |          | mg/kg |           |
|                        |                          | Total Vanadium (V)            | 2013/07/26                  | <1.0  |          | mg/kg |           |
|                        |                          | Total Zinc (Zn)               | 2013/07/26                  | <10   |          | mg/kg |           |
|                        | RPD [GZ1946-01]          | Total Antimony (Sb)           | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Arsenic (As)            | 2013/07/26                  | 12.1  |          | %     | 35        |
|                        |                          | Total Barium (Ba)             | 2013/07/26                  | 6.0   |          | %     | 35        |
|                        |                          | Total Beryllium (Be)          | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Cadmium (Cd)            | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Chromium (Cr)           | 2013/07/26                  | 21.1  |          | %     | 35        |
|                        |                          | Total Cobalt (Co)             | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Copper (Cu)             | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Lead (Pb)               | 2013/07/26                  | 4.3   |          | %     | 35        |
|                        |                          | Total Mercury (Hg)            | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Molybdenum (Mo)         | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Nickel (Ni)             | 2013/07/26                  | 17.1  |          | %     | 35        |
|                        |                          | Total Selenium (Se)           | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Silver (Ag)             | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Thallium (Tl)           | 2013/07/26                  | NC    |          | %     | 35        |
|                        |                          | Total Tin (Sn)                | 2013/07/26                  | NC    |          | %     | 35        |
| Total Uranium (U)      | 2013/07/26               | NC                            |                             | %     | 35       |       |           |
| Total Vanadium (V)     | 2013/07/26               | 5.8                           |                             | %     | 35       |       |           |
| Total Zinc (Zn)        | 2013/07/26               | NC                            |                             | %     | 35       |       |           |
| 7024739 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 121      | %     | 75 - 125  |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|                        | QC Standard              | Soluble Potassium (K)         | 2013/07/26                  |       | 116      | %     | 75 - 125  |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26                  |       | 112      | %     | 75 - 125  |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 115      | %     | 75 - 125  |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |       | 110      | %     | 75 - 125  |
|                        | Spiked Blank             | Soluble Potassium (K)         | 2013/07/26                  |       | 108      | %     | 75 - 125  |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26                  |       | 119      | %     | 78 - 122  |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26                  |       | 99       | %     | 75 - 125  |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|                        | Method Blank             | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5  |          | mg/L  |           |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0  |          | mg/L  |           |
|                        | RPD                      | Soluble Sodium (Na)           | 2013/07/26                  | <2.5  |          | mg/L  |           |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  | <1.3  |          | mg/L  |           |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0  |          | mg/L  |           |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26                  | 14.5  |          | %     | 35        |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  | 12.7  |          | %     | 35        |
| Soluble Sodium (Na)    |                          | 2013/07/26                    | 3.5                         |       | %        | 35    |           |
| Soluble Potassium (K)  |                          | 2013/07/26                    | 5.1                         |       | %        | 35    |           |
| Soluble Sulphate (SO4) | 2013/07/26               | 7.3                           |                             | %     | 35       |       |           |
| 7024833 NC3            | Matrix Spike [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|                        | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|                        | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10 |          | mg/kg |           |
|                        | RPD [GZ1928-01]          | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC    |          | %     | 35        |
| 7025101 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 107      | %     | 75 - 125  |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |

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## Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch  | QC Type                | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|--------------|------------------------|------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7025101 JSM  | QC Standard            | Soluble Calcium (Ca)   | 2013/07/26                  |            | 117      | %     | 75 - 125  |          |
|              |                        | Soluble Magnesium (Mg) | 2013/07/26                  |            | 109      | %     | 75 - 125  |          |
|              |                        | Soluble Sodium (Na)    | 2013/07/26                  |            | 103      | %     | 75 - 125  |          |
|              |                        | Soluble Potassium (K)  | 2013/07/26                  |            | 102      | %     | 75 - 125  |          |
|              |                        | Soluble Sulphate (SO4) | 2013/07/26                  |            | 120      | %     | 78 - 122  |          |
|              | Spiked Blank           | Soluble Calcium (Ca)   | 2013/07/26                  |            |          | 101   | %         | 75 - 125 |
|              |                        | Soluble Magnesium (Mg) | 2013/07/26                  |            |          | 102   | %         | 75 - 125 |
|              |                        | Soluble Sodium (Na)    | 2013/07/26                  |            |          | 106   | %         | 75 - 125 |
|              |                        | Soluble Potassium (K)  | 2013/07/26                  |            |          | 102   | %         | 75 - 125 |
|              |                        | Method Blank           | Soluble Calcium (Ca)        | 2013/07/26 |          | <1.5  |           | mg/L     |
|              | Soluble Magnesium (Mg) |                        | 2013/07/26                  |            | <1.0     |       | mg/L      |          |
|              | Soluble Sodium (Na)    |                        | 2013/07/26                  |            | <2.5     |       | mg/L      |          |
|              | Soluble Potassium (K)  |                        | 2013/07/26                  |            | <1.3     |       | mg/L      |          |
|              | Soluble Sulphate (SO4) |                        | 2013/07/26                  |            | <5.0     |       | mg/L      |          |
|              | RPD                    | Soluble Calcium (Ca)   | 2013/07/26                  |            | 28.5     |       | %         | 35       |
|              |                        | Soluble Magnesium (Mg) | 2013/07/26                  |            | 10.3     |       | %         | 35       |
|              |                        | Soluble Sodium (Na)    | 2013/07/26                  |            | 3.4      |       | %         | 35       |
|              |                        | Soluble Potassium (K)  | 2013/07/26                  |            | 34.3     |       | %         | 35       |
|              |                        | Soluble Sulphate (SO4) | 2013/07/26                  |            | 6.4      |       | %         | 35       |
|              | 7025470 KD5            | Matrix Spike           | Soluble Chloride (Cl)       | 2013/07/26 |          | 78    | %         | 75 - 125 |
| QC Standard  |                        | Soluble Chloride (Cl)  | 2013/07/26                  |            | 90       | %     | 75 - 125  |          |
| Spiked Blank |                        | Soluble Chloride (Cl)  | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
| Method Blank |                        | Soluble Chloride (Cl)  | 2013/07/26                  |            | <5.0     |       | mg/L      |          |
| RPD          |                        | Soluble Chloride (Cl)  | 2013/07/26                  |            | 1.8      |       | %         | 35       |

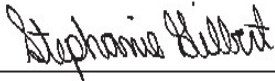
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



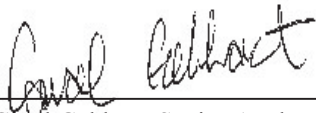
Stephanie Gilbert, Senior Analyst




Poonam Sharma, Senior Analyst, Organics Department



Daniel Reslan, Volatiles Supervisor



Carol Gebhart, Senior Analyst



Anna Koksharova, Senior Analyst

Maxxam Analytics - Partial/Rush Results

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Michael Chae, Ph.D, Scientific Specialist

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Maxxam Analytics - Partial/Rush Results













Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/27**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 19       | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 6        | 2013/07/22        | 2013/07/26       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 12       | 2013/07/22        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 1        | 2013/07/24        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha



Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/27**

**CERTIFICATE OF ANALYSIS**

-2-

Encryption Key

Tanya Eugene

27 Jul 2013 17:15:41 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

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Total cover pages: 2



Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                     |                             |                     |                     |            |                 |
|---------------|--------------|---------------------|-----------------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1925                      | GZ1926              | GZ1927              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:30         | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 |            |                 |
| COC Number    |              | A134514             | A134514                     | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#1<br/>Lab-Dup</b> | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
| Moisture                      | %     | 7.6     | N/A     | 27      | 7.8     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | 29      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | 650     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | 230     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | 0.028   | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 105     | 117     | 106     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 99      | 102     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 122     | 120     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 97      | 100     | 99      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | N/A     | 92      | 103     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                             |                     |                     |                     |            |                 |
|---------------|--------------|-----------------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1927                      | GZ1928              | GZ1930              | GZ1932              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:40         | 2013/07/19<br>16:50 | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 |            |                 |
| COC Number    |              | A134514                     | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#3<br/>Lab-Dup</b> | <b>N WALL#4</b>     | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |     |         |         |         |        |         |
|-------------------------------|-------|-----|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |     |         |         |         |        |         |
| Moisture                      | %     | N/A | 12      | 7.5     | 6.3     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |     |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 18  | 190     | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |     |         |         |         |        |         |
| Benzene                       | mg/kg | N/A | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | N/A | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |     |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | N/A | 109     | 105     | 107     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | N/A | 100     | 100     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | N/A | 126     | 128     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | N/A | 101     | 99      | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 99  | 94      | 93      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1933              | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
|---------------|--------------|---------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 8.5     | 2.5     | 3.7     | 3.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 16      | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 70      | <50     | 51      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 105     | 103     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | 98      | 101     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 126     | 127     | 123     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 98      | 98      | 102     | 102     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 105     | 98      | 107     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 9.7     | 5.9     | 4.3     | 2.9     | 2.7     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 65      | <10     | 23      | 26      | 14      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 100     | 67      | 67      | 130     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 60      | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 100     | 105     | 101     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 92      | 102     | 100     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 124     | 125     | 125     | 122     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 97      | 94      | 102     | 101     | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | 105     | 95      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                |  |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         | GZ1948                                     |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                                 |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                                    |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE N END<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.2     | 3.6     | 3.7 | 7013448 | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 58      | N/A | 7011232 | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | 7011232 | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | 7012055 | <0.0050 | 0.0050 | 7022378 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | 7012055 | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 104     | N/A | 7012055 | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 101     | 99      | N/A | 7012055 | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)       | %     | 130     | 127     | N/A | 7012055 | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 101     | 101     | N/A | 7012055 | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | N/A | 7011232 | 86      | N/A    | 7019559 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              |            | GZ1926              |            | GZ1927              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 |            | 2013/07/19<br>16:35 |            | 2013/07/19<br>16:40 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>RDL</b> | <b>N WALL#2</b>     | <b>RDL</b> | <b>N WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928              |            | GZ1930              |            | GZ1932              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50 |            | 2013/07/19<br>17:00 |            | 2013/07/19<br>17:20 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#4</b>     | <b>RDL</b> | <b>W WALL#1</b>     | <b>RDL</b> | <b>W WALL#3</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                             |            |                     |            |                                |            |                 |
|---------------|--------------|-----------------------------|------------|---------------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1932                      |            | GZ1933              |            | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:20         |            | 2013/07/19<br>17:30 |            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                     |            | A134514             |            | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#3<br/>Lab-Dup</b> | <b>RDL</b> | <b>W WALL#4</b>     | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |       |       |       |       |         |
|--------------------------------|-----------|------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | N/A  | N/A   | 6.5   | N/A   | 1.3   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | N/A  | N/A   | 8.9   | N/A   | 3.7   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | N/A  | 0.10  | 11    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | N/A  | 0.010 | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | N/A  | 0.50  | 37    | 0.59  | 11    | 0.39  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | N/A  | 0.33  | 14    | 0.39  | 1.8   | 0.26  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | N/A  | 0.83  | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | N/A  | 0.43  | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | N/A  | 1.7   | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | N/A  | 1.7   | 110   | 2.0   | 13    | 1.3   | 7007668 |
| <b>Soluble Parameters</b>      |           |      |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | N/A  | 5.0   | 17    | 5.0   | 8.6   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | N/A  | 0.020 | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67 | N/A   | 7.63  | N/A   | 7.59  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | N/A  | 0.10  | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | N/A  | 1.5   | 95    | 1.5   | 42    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | N/A  | 1.0   | 37    | 1.0   | 6.7   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | N/A  | 2.5   | 20    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | N/A  | 1.3   | 8.3   | 1.3   | 13    | 1.3   | 7024739 |
| Saturation %                   | %         | N/A  | N/A   | 39    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | N/A  | 5.0   | 290   | 5.0   | 51    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | N/A  | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1935              |            | GZ1936              |            | GZ1937              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>QC Batch</b> |
|               |              | <b>N END W SIDE</b> |            | <b>S END W SIDE</b> |            | <b>N END E SIDE</b> |            |                 |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.2   | N/A   | 1.1   | N/A   | 3.7   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 3.9   | N/A   | 4.1   | N/A   | 5.0   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 3.4   | 0.010 | 3.9   | 0.010 | 1.3   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 13    | 0.45  | 19    | 0.54  | 13    | 0.42  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.8   | 0.30  | 2.5   | 0.36  | 2.8   | 0.28  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 0.76  | 4.4   | 0.91  | 8.5   | 0.70  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.4   | 0.39  | 4.8   | 0.47  | 4.6   | 0.36  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.5   | 2.8   | 1.8   | 9.7   | 1.4   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.5   | 15    | 1.8   | 37    | 1.4   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.9   | 5.0   | 7.8   | 5.0   | 35    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.37  | 0.020 | 0.42  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67  | N/A   | 7.63  | N/A   | 7.50  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.10  | 0.41  | 0.10  | 1.1   | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 43    | 1.5   | 54    | 1.5   | 48    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 5.9   | 1.0   | 6.8   | 1.0   | 10    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 13    | 2.5   | 12    | 2.5   | 31    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 1.3   | 13    | 1.3   | 16    | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 36    | N/A   | 28    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 47    | 5.0   | 40    | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                     |            |                                     |               |            |                                |            |                 |
|---------------|--------------|-------------------------------------|------------|-------------------------------------|---------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1938                              |            | GZ1939                              | GZ1943        |            | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19                          |            | 2013/07/19                          | 2013/07/19    |            | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             |            | A134515                             | A134515       |            | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.1   | N/A   | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 6.7   | N/A   | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 8.7   | 0.10  | 11    | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 2.1   | 0.010 | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 25    | 0.45  | 15    | 12    | 0.39  | 9.9   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.4   | 0.30  | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.8   | 0.74  | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.8   | 0.39  | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 4.4   | 1.5   | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 39    | 1.5   | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 15    | 5.0   | 21    | 5.6   | 5.0   | 5.4   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.76  | 0.020 | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.79  | N/A   | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.43  | 0.10  | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 85    | 1.5   | 57    | 45    | 1.5   | 39    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 12    | 1.0   | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 15    | 13    | 2.5   | 14    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 30    | 1.3   | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 26    | 26    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 130   | 5.0   | 100   | 24    | 5.0   | 19    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.34  | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.3   | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.7   | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 2.6   | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.47  | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 3.2   | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 0.72  | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 4.2   | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 6.88  | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.95  | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 10    | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 1.8   | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 13    | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 2.8   | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 16    | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                             |                     |                     |                     |            |                 |
|---------------|--------------|-----------------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928                      | GZ1930              | GZ1932              | GZ1933              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50         | 2013/07/19<br>17:00 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 |            |                 |
| COC Number    |              | A134514                     | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#4<br/>Lab-Dup</b> | <b>W WALL#1</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |      |        |        |        |       |         |
|-------------------------------|-------|------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.14 | 0.18   | 0.12   | 0.59   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A  | <0.15  | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A  | 6.0    | 5.0    | 5.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A  | 240    | 79     | 100    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A  | <0.40  | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A  | <0.10  | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A  | 9.2    | 12     | 7.2    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A  | 3.8    | 3.6    | 4.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A  | <5.0   | <5.0   | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A  | 3.4    | 3.0    | 3.6    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A  | <0.050 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A  | 0.56   | 0.51   | 0.54   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A  | 11     | 12     | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A  | <0.50  | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A  | <0.30  | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A  | 12     | 12     | 14     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A  | 24     | 25     | 28     | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                             |                                |                                |                                |            |                 |
|---------------|--------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1933                      | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:30         | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                     | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#4<br/>Lab-Dup</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A   | 0.19  | 0.13  | 0.16  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A   | 6.2   | 4.2   | 6.3   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A   | 2300  | 2600  | 2700  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A   | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A   | 0.10  | <0.10 | 0.12  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A   | 37    | 12    | 8.8   | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A   | 3.2   | 1.5   | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A   | 7.8   | 5.8   | 8.1   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A   | 18    | 19    | 39    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A   | 0.058 | 0.063 | 0.072 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A   | 1.1   | 0.49  | 0.89  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A   | 21    | 7.2   | 7.4   | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A   | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A   | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A   | 13    | 11    | 15    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A   | 29    | 23    | 33    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Elements</b>               |       |       |       |       |        |        |       |         |
|-------------------------------|-------|-------|-------|-------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.12  | 0.19  | 0.13  | 0.16   | 0.17   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 3.7   | 5.0   | 5.5   | 5.3    | 6.1    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 630   | 2600  | 1100  | 730    | 480    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | <0.10 | <0.10 | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 27    | 24    | 18    | 8.9    | 15     | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.2   | 1.8   | 2.2   | 2.3    | 3.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0  | 5.6   | <5.0  | 6.7    | 6.6    | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 8.5   | 15    | 9.7   | 9.0    | 12     | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.051 | 0.053 | 0.063 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.73  | 0.76  | 0.70  | 0.72   | 0.70   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 13    | 12    | 11    | 7.2    | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12    | 14    | 11    | 13     | 15     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | <10   | 18    | <10   | 20     | 24     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |  |                                |                                |                 |  |            |                 |
|---------------|--------------|--|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                                     | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                                 | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                    | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END<br/>Lab-Dup</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A    | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A    | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.9    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 510    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | 0.13   | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 18     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.6    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.8    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 13     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.76   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 14     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 16     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 26     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              | GZ1928              |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                     |                     |                     |                     |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1931              | GZ1932              | GZ1933              |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:10 | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             | A134514             |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#2</b>     | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |                                |                                |            |                 |
|---------------|--------------|--------------------------------|--|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1934                                 | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30                    | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                        | A134514                                | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1 S END<br/>E SIDE Lab-Dup</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |      |         |
|----------------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b>       |   |        |        |        |        |      |         |
| Sieve - Pan                      | % | 7.0    | 5.8    | 3.8    | 5.6    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 93     | 94     | 96     | 94     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |        |        |      |         |

|               |              |                                |                                     |                                     |               |                                |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                  |   |        |        |        |        |        |        |      |         |
|----------------------------------|---|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b>       |   |        |        |        |        |        |        |      |         |
| Sieve - Pan                      | % | 2.8    | 4.0    | 1.3    | 6.9    | 9.8    | 3.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 97     | 96     | 99     | 93     | 90     | 96     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |        |        |        |        |      |         |



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |            |                 |
|---------------|--------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>       |   |        |        |      |         |
|----------------------------------|---|--------|--------|------|---------|
| Sieve - Pan                      | % | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |      |         |



Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1925              | GZ1926              | GZ1927              |            | GZ1928              |            |                 |
|---------------|--------------|---------------------|---------------------|---------------------|------------|---------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30 | 2013/07/19<br>16:35 | 2013/07/19<br>16:40 |            | 2013/07/19<br>16:50 |            |                 |
| COC Number    |              | A134514             | A134514             | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>N WALL#1</b>     | <b>N WALL#2</b>     | <b>N WALL#3</b>     | <b>RDL</b> | <b>N WALL#4</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |        |            |        |         |
|-------------------------------|-------|---------|---------|---------|--------|------------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 0.10   | <0.10      | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.042   | <0.010  | 0.010  | <0.010     | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 0.0040 | <0.0040    | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0060  | <0.0050 | 0.0050 | 0.0079     | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0053  | 0.029   | 0.0050 | 0.17       | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 0.041   | 0.0050 | 0.044      | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 0.0085     | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.015   | 0.0059  | 0.025   | 0.0050 | 0.018      | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0084  | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | <0.016 (1) | 0.016  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |            |        |         |
| D10-ANTHRACENE (sur.)         | %     | 106     | 96      | 113     | N/A    | 108        | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 86      | 99      | N/A    | 96         | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 98      | 100     | 113     | N/A    | 112        | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 115     | 115     | 134 (2) | N/A    | 132 (2)    | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to matrix interference.  
( 2 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                     |                             |                 |                     |            |                 |
|---------------|--------------|---------------------|-----------------------------|-----------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930              | GZ1930                      |                 | GZ1931              |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00 | 2013/07/19<br>17:00         |                 | 2013/07/19<br>17:10 |            |                 |
| COC Number    |              | A134514             | A134514                     |                 | A134514             |            |                 |
|               | <b>UNITS</b> | <b>W WALL#1</b>     | <b>W WALL#1<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>W WALL#2</b>     | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | N/A     | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.037   | 0.022   | 7023968 | 0.021   | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 106     | 7023968 | 109     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 93      | 89      | 7023968 | 89      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 108     | 102     | 7023968 | 106     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 121     | 7023968 | 125     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1932              | GZ1933              | GZ1934                         | GZ1935                         |            |                 |
|---------------|--------------|---------------------|---------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514             | A134514             | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>W WALL#3</b>     | <b>W WALL#4</b>     | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0057  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0056  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0060  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0094  | 0.025   | 0.0073  | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 114     | 109     | 109     | 101     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 90      | 86      | 86      | 81      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 110     | 108     | 107     | 100     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 130     | 126     | 126     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134515                             | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0094  | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0076  | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 110     | 107     | 107     | 104     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 87      | 88      | 86      | 86      | 84      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 109     | 110     | 106     | 105     | 104     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 130     | 123     | 124     | 123     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                                |                                |                                |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                         | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | <0.0050 | 0.0051  | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 104     | 108     | 106     | 7023968 | 97      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 85      | 81      | 7023968 | 69      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 103     | 108     | 105     | 7023968 | 96      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 122     | 126     | 123     | 7023968 | 111     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch               | QC Type                     | Parameter                    | Date Analyzed<br>yyyy/mm/dd  | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|-----------------------------|------------------------------|------------------------------|------------|----------|-------|-----------|----------|
| 7011232 KN0               | Matrix Spike<br>[GZ1928-01] | O-TERPHENYL (sur.)           | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | 100      | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)           | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | 116      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | 117      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | 113      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)           | 2013/07/25                   |            |          | 98    | %         | 50 - 130 |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | <10      |       | mg/kg     |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           | RPD [GZ1927-01]             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | NC       |       | %         | 50       |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                   |                              | NC         |          | %     | 50        |          |
|                           |                             |                              |                              |            |          |       |           |          |
| 7011691 KD5               | Matrix Spike<br>[GZ1933-01] | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | 82       | %     | 75 - 125  |          |
|                           |                             | Spiked Blank                 | Hex. Chromium (Cr 6+)        | 2013/07/23 |          | 101   | %         | 90 - 110 |
|                           | Method Blank                | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | <0.15    |       | mg/kg     |          |
|                           | RPD [GZ1933-01]             | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | NC       |       | %         | 35       |
| 7012055 CG7               | Matrix Spike<br>[GZ1926-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                   |            | 100      | %     | 60 - 140  |          |
|                           |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/25                   |            | 120      | %     | 60 - 130  |          |
|                           |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                   |            | 102      | %     | 60 - 140  |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | 96       | %     | 60 - 140  |          |
|                           |                             | Toluene                      | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           |                             | Ethylbenzene                 | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                             | m & p-Xylene                 | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           |                             | o-Xylene                     | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | 86       | %     | 60 - 140  |          |
|                           |                             | Spiked Blank                 | 1,4-Difluorobenzene (sur.)   | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           |                             |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25 |          | 96    | %         | 60 - 140 |
|                           |                             |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25 |          | 119   | %         | 60 - 130 |
|                           |                             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           | Benzene                     |                              | 2013/07/25                   |            | 112      | %     | 60 - 140  |          |
|                           | Toluene                     |                              | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           | Ethylbenzene                |                              | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           | m & p-Xylene                |                              | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           | Method Blank                | o-Xylene                     | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | 88       | %     | 60 - 140  |          |
|                           |                             | 1,4-Difluorobenzene (sur.)   | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                   |            | 79       | %     | 60 - 140  |          |
|                           |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/25                   |            | 127      | %     | 60 - 130  |          |
|                           |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                   |            | 111      | %     | 60 - 140  |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | <0.0050  |       | mg/kg     |          |
|                           |                             | Toluene                      | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           |                             | Ethylbenzene                 | 2013/07/25                   |            | <0.010   |       | mg/kg     |          |
|                           |                             | Xylenes (Total)              | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                             | m & p-Xylene                 | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                             | o-Xylene                     | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           | RPD [GZ1925-01]             | F1 (C6-C10) - BTEX           | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                             |                              |                              |            |          |       |           |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25                  | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23                  | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23                  | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25                  |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25                  | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25                  | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | 1.3    |          | %     | 35        |
| 7019559 KNO | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26                  |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26                  | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25                  | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26                  |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26                  |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26                  | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25                  |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25                  |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25                  | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25                  |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25                  |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25                  |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 93       | %     | 60 - 140  |



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| QA/QC Batch  | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|--------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7022378 YS5  | Spiked Blank                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95       | %     | 60 - 130  |          |
|              |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|              |                              | Benzene                      | 2013/07/25                  |            | 108      | %     | 60 - 140  |          |
|              |                              | Toluene                      | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|              |                              | Ethylbenzene                 | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|              |                              | m & p-Xylene                 | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|              |                              | o-Xylene                     | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|              |                              | (C6-C10)                     | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|              |                              | Method Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 104   | %         | 60 - 140 |
|              |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|              | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 103      | %     | 60 - 130  |          |
|              | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 99       | %     | 60 - 140  |          |
|              | Benzene                      |                              | 2013/07/25                  | <0.0050    |          | mg/kg |           |          |
|              | Toluene                      |                              | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|              | Ethylbenzene                 |                              | 2013/07/25                  | <0.010     |          | mg/kg |           |          |
|              | Xylenes (Total)              |                              | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|              | RPD                          | m & p-Xylene                 | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|              |                              | o-Xylene                     | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|              |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          | mg/kg |           |          |
|              |                              | (C6-C10)                     | 2013/07/25                  | <12        |          | mg/kg |           |          |
|              |                              | Benzene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|              |                              | Toluene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|              |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          | %     | 50        |          |
|              |                              | Xylenes (Total)              | 2013/07/25                  | NC         |          | %     | 50        |          |
| m & p-Xylene |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |
| o-Xylene     |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |
| 7022580 AD7  | QC Standard                  | Saturation %                 | 2013/07/26                  |            | 103      | %     | 93 - 107  |          |
|              | RPD                          | Saturation %                 | 2013/07/26                  | 0.9        |          | %     | 12        |          |
| 7022770 SSF  | QC Standard                  | Soluble Conductivity         | 2013/07/26                  |            | 104      | %     | 85 - 115  |          |
|              | Spiked Blank                 | Soluble Conductivity         | 2013/07/26                  |            | 101      | %     | 90 - 110  |          |
|              | Method Blank                 | Soluble Conductivity         | 2013/07/26                  | <0.020     |          | dS/m  |           |          |
| 7023896 SSF  | RPD                          | Soluble Conductivity         | 2013/07/26                  | 24.1       |          | %     | 35        |          |
|              | QC Standard                  | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102      | %     | 97 - 103  |          |
| 7023968 YM1  | Spiked Blank                 | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100      | %     | 97 - 103  |          |
|              | RPD [GZ1932-01]              | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |          | %     | 5         |          |
| 7023968 YM1  | Matrix Spike<br>[GZ1931-01]  | D10-ANTHRACENE (sur.)        | 2013/07/26                  |            | 97       | %     | 50 - 130  |          |
|              |                              | D12-BENZO(A)PYRENE (sur.)    | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|              |                              | D8-ACENAPHTHYLENE (sur.)     | 2013/07/26                  |            | 93       | %     | 50 - 130  |          |
|              |                              | TERPHENYL-D14 (sur.)         | 2013/07/26                  |            | 106      | %     | 50 - 130  |          |
|              |                              | Acenaphthene                 | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|              |                              | Acenaphthylene               | 2013/07/26                  |            | 90       | %     | 50 - 130  |          |
|              |                              | Acridine                     | 2013/07/26                  |            | 64       | %     | 50 - 130  |          |
|              |                              | Anthracene                   | 2013/07/26                  |            | 91       | %     | 50 - 130  |          |
|              |                              | Benzo(a)anthracene           | 2013/07/26                  |            | 86       | %     | 50 - 130  |          |
|              |                              | Benzo(b&j)fluoranthene       | 2013/07/26                  |            | 78       | %     | 50 - 130  |          |
|              |                              | Benzo(k)fluoranthene         | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|              |                              | Benzo(g,h,i)perylene         | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |
|              |                              | Benzo(c)phenanthrene         | 2013/07/26                  |            | 77       | %     | 50 - 130  |          |
|              |                              | Benzo(a)pyrene               | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|              |                              | Benzo[e]pyrene               | 2013/07/26                  |            | 74       | %     | 50 - 130  |          |
|              |                              | Chrysene                     | 2013/07/26                  |            | 75       | %     | 50 - 130  |          |
|              |                              | Dibenz(a,h)anthracene        | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |





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|-----------------------|-----------------------------|---------------------------|-----------------------------|------------|----------|-------|-----------|
| 7023968 YM1           | Matrix Spike<br>[GZ1931-01] | Fluoranthene              | 2013/07/26                  |            | 95       | %     | 50 - 130  |
|                       |                             | Fluorene                  | 2013/07/26                  |            | 95       | %     | 50 - 130  |
|                       |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |            | 83       | %     | 50 - 130  |
|                       |                             | 2-Methylnaphthalene       | 2013/07/26                  |            | 76       | %     | 50 - 130  |
|                       |                             | Naphthalene               | 2013/07/26                  |            | 81       | %     | 50 - 130  |
|                       |                             | Phenanthrene              | 2013/07/26                  |            | 88       | %     | 50 - 130  |
|                       |                             | Perylene                  | 2013/07/26                  |            | 77       | %     | 50 - 130  |
|                       |                             | Pyrene                    | 2013/07/26                  |            | 92       | %     | 50 - 130  |
|                       |                             | Quinoline                 | 2013/07/26                  |            | 106      | %     | 50 - 130  |
|                       |                             | Spiked Blank              | D10-ANTHRACENE (sur.)       | 2013/07/26 |          | 86    | %         |
|                       | D12-BENZO(A)PYRENE (sur.)   |                           | 2013/07/26                  |            | 76       | %     | 50 - 130  |
|                       | D8-ACENAPHTHYLENE (sur.)    |                           | 2013/07/26                  |            | 82       | %     | 50 - 130  |
|                       | TERPHENYL-D14 (sur.)        |                           | 2013/07/26                  |            | 95       | %     | 50 - 130  |
|                       | Acenaphthene                |                           | 2013/07/26                  |            | 81       | %     | 50 - 130  |
|                       | Acenaphthylene              |                           | 2013/07/26                  |            | 81       | %     | 50 - 130  |
|                       | Acridine                    |                           | 2013/07/26                  |            | 58       | %     | 50 - 130  |
|                       | Anthracene                  |                           | 2013/07/26                  |            | 81       | %     | 50 - 130  |
|                       | Benzo(a)anthracene          |                           | 2013/07/26                  |            | 79       | %     | 50 - 130  |
|                       | Benzo(b&j)fluoranthene      |                           | 2013/07/26                  |            | 71       | %     | 50 - 130  |
|                       | Benzo(k)fluoranthene        |                           | 2013/07/26                  |            | 81       | %     | 50 - 130  |
|                       | Benzo(g,h,i)perylene        |                           | 2013/07/26                  |            | 73       | %     | 50 - 130  |
|                       | Benzo(c)phenanthrene        |                           | 2013/07/26                  |            | 70       | %     | 50 - 130  |
|                       | Benzo(a)pyrene              |                           | 2013/07/26                  |            | 82       | %     | 50 - 130  |
|                       | Benzo[e]pyrene              |                           | 2013/07/26                  |            | 68       | %     | 50 - 130  |
|                       | Chrysene                    |                           | 2013/07/26                  |            | 70       | %     | 50 - 130  |
|                       | Dibenz(a,h)anthracene       |                           | 2013/07/26                  |            | 72       | %     | 50 - 130  |
|                       | Fluoranthene                |                           | 2013/07/26                  |            | 85       | %     | 50 - 130  |
|                       | Fluorene                    |                           | 2013/07/26                  |            | 85       | %     | 50 - 130  |
|                       | Indeno(1,2,3-cd)pyrene      |                           | 2013/07/26                  |            | 71       | %     | 50 - 130  |
|                       | 2-Methylnaphthalene         |                           | 2013/07/26                  |            | 71       | %     | 50 - 130  |
|                       | Naphthalene                 |                           | 2013/07/26                  |            | 72       | %     | 50 - 130  |
|                       | Phenanthrene                |                           | 2013/07/26                  |            | 79       | %     | 50 - 130  |
|                       | Perylene                    |                           | 2013/07/26                  |            | 69       | %     | 50 - 130  |
|                       | Pyrene                      |                           | 2013/07/26                  |            | 84       | %     | 50 - 130  |
|                       | Method Blank                | Quinoline                 | 2013/07/26                  |            | 109      | %     | 50 - 130  |
|                       |                             | D10-ANTHRACENE (sur.)     | 2013/07/26                  |            | 108      | %     | 50 - 130  |
|                       |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |            | 85       | %     | 50 - 130  |
|                       |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |            | 99       | %     | 50 - 130  |
|                       |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                  |            | 118      | %     | 50 - 130  |
|                       |                             | Acenaphthene              | 2013/07/26                  | <0.0050    |          |       | mg/kg     |
|                       |                             | Acenaphthylene            | 2013/07/26                  | <0.0050    |          |       | mg/kg     |
|                       |                             | Acridine                  | 2013/07/26                  | <0.010     |          |       | mg/kg     |
|                       |                             | Anthracene                | 2013/07/26                  | <0.0040    |          |       | mg/kg     |
|                       |                             | Benzo(a)anthracene        | 2013/07/26                  | <0.0050    |          |       | mg/kg     |
|                       |                             | Benzo(b&j)fluoranthene    | 2013/07/26                  | <0.0050    |          |       | mg/kg     |
| Benzo(k)fluoranthene  |                             | 2013/07/26                | <0.0050                     |            |          | mg/kg |           |
| Benzo(g,h,i)perylene  |                             | 2013/07/26                | <0.0050                     |            |          | mg/kg |           |
| Benzo(c)phenanthrene  |                             | 2013/07/26                | <0.0050                     |            |          | mg/kg |           |
| Benzo(a)pyrene        |                             | 2013/07/26                | <0.0050                     |            |          | mg/kg |           |
| Benzo[e]pyrene        | 2013/07/26                  | <0.0050                   |                             |            | mg/kg    |       |           |
| Chrysene              | 2013/07/26                  | <0.0050                   |                             |            | mg/kg    |       |           |
| Dibenz(a,h)anthracene | 2013/07/26                  | <0.0050                   |                             |            | mg/kg    |       |           |
| Fluoranthene          | 2013/07/26                  | <0.0050                   |                             |            | mg/kg    |       |           |
| Fluorene              | 2013/07/26                  | <0.0050                   |                             |            | mg/kg    |       |           |



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|-------------|-----------------------------|------------------------|-----------------------------|-----------------------|------------|-------|-----------|-------|----------|
| 7023968 YM1 | Method Blank                | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Perylene               | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             | RPD [GZ1930-01]             | Quinoline              | 2013/07/26                  | <0.010                |            | mg/kg |           |       |          |
|             |                             | Acenaphthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acenaphthylene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acridine               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Anthracene             | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)anthracene     | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(b&j)fluoranthene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(k)fluoranthene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(g,h,i)perylene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(c)phenanthrene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo[e]pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Chrysene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Dibenz(a,h)anthracene  | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluoranthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluorene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Perylene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Quinoline              | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 7024524 KD5            | Matrix Spike                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 86        | %     | 75 - 125 |
|             |                             |                        | Spiked Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 99        | %     | 90 - 110 |
|             |                             |                        | Method Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 | <0.15 |           | mg/kg |          |
| RPD         | Hex. Chromium (Cr 6+)       |                        | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024579 KD5 | Matrix Spike                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 102        | %     | 75 - 125  |       |          |
|             | QC Standard                 | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             | Spiked Blank                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 101        | %     | 75 - 125  |       |          |
|             | Method Blank                | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0                  |            | mg/L  |           |       |          |
|             | RPD                         | Soluble Chloride (Cl)  | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Antimony (Sb)    | 2013/07/26                  |                       | 90         | %     | 75 - 125  |       |          |
|             |                             | Total Arsenic (As)     | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Barium (Ba)      | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Beryllium (Be)   | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Cadmium (Cd)     | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Chromium (Cr)    | 2013/07/26                  |                       | 96         | %     | 75 - 125  |       |          |
|             |                             | Total Cobalt (Co)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Copper (Cu)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Lead (Pb)        | 2013/07/26                  |                       | 88         | %     | 75 - 125  |       |          |
|             |                             | Total Magnesium (Mg)   | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Mercury (Hg)     | 2013/07/26                  |                       | 91         | %     | 75 - 125  |       |          |
|             |                             | Total Molybdenum (Mo)  | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Nickel (Ni)      | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Selenium (Se)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Silver (Ag)      | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Thallium (Tl)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |



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|---------------------|-----------------------------|-----------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7024662 SF3         | Matrix Spike<br>[GZ1946-01] | Total Tin (Sn)        | 2013/07/26                  |            | 98       | %     | 75 - 125  |          |
|                     |                             | Total Uranium (U)     | 2013/07/26                  |            | 82       | %     | 75 - 125  |          |
|                     |                             | Total Vanadium (V)    | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                     |                             | Total Zinc (Zn)       | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                     | QC Standard                 | Total Arsenic (As)    | 2013/07/26                  |            | 119      | %     | 50 - 150  |          |
|                     |                             | Total Barium (Ba)     | 2013/07/26                  |            | 115      | %     | 69 - 131  |          |
|                     |                             | Total Chromium (Cr)   | 2013/07/26                  |            | 109      | %     | 41 - 159  |          |
|                     |                             | Total Cobalt (Co)     | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                     |                             | Total Copper (Cu)     | 2013/07/26                  |            | 106      | %     | 73 - 127  |          |
|                     |                             | Total Lead (Pb)       | 2013/07/26                  |            | 101      | %     | 54 - 146  |          |
|                     |                             | Total Magnesium (Mg)  | 2013/07/26                  |            | 94       | %     | 69 - 131  |          |
|                     |                             | Total Nickel (Ni)     | 2013/07/26                  |            | 115      | %     | 61 - 139  |          |
|                     |                             | Total Vanadium (V)    | 2013/07/26                  |            | 125      | %     | 50 - 150  |          |
|                     |                             | Total Zinc (Zn)       | 2013/07/26                  |            | 109      | %     | 72 - 128  |          |
|                     |                             | Spiked Blank          | Total Antimony (Sb)         | 2013/07/26 |          | 92    | %         | 75 - 125 |
|                     |                             |                       | Total Arsenic (As)          | 2013/07/26 |          | 93    | %         | 75 - 125 |
|                     |                             |                       | Total Barium (Ba)           | 2013/07/26 |          | 96    | %         | 75 - 125 |
|                     | Total Beryllium (Be)        |                       | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                     | Total Cadmium (Cd)          |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Chromium (Cr)         |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Cobalt (Co)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Copper (Cu)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Lead (Pb)             |                       | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                     | Total Magnesium (Mg)        |                       | 2013/07/26                  |            | 89       | %     | 75 - 125  |          |
|                     | Total Mercury (Hg)          |                       | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                     | Total Molybdenum (Mo)       |                       | 2013/07/26                  |            | 95       | %     | 75 - 125  |          |
|                     | Total Nickel (Ni)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Selenium (Se)         |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Silver (Ag)           |                       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                     | Total Thallium (Tl)         |                       | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                     | Method Blank                |                       | Total Tin (Sn)              | 2013/07/26 |          |       |           |          |
|                     |                             | Total Uranium (U)     | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                     |                             | Total Vanadium (V)    | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                     |                             | Total Zinc (Zn)       | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                     |                             | Total Antimony (Sb)   | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Arsenic (As)    | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Barium (Ba)     | 2013/07/26                  |            | <10      |       | mg/kg     |          |
|                     |                             | Total Beryllium (Be)  | 2013/07/26                  |            | <0.40    |       | mg/kg     |          |
|                     |                             | Total Cadmium (Cd)    | 2013/07/26                  |            | <0.10    |       | mg/kg     |          |
|                     |                             | Total Chromium (Cr)   | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Cobalt (Co)     | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Copper (Cu)     | 2013/07/26                  |            | <5.0     |       | mg/kg     |          |
|                     |                             | Total Lead (Pb)       | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Magnesium (Mg)  | 2013/07/26                  |            | <100     |       | mg/kg     |          |
|                     |                             | Total Mercury (Hg)    | 2013/07/26                  |            | <0.050   |       | mg/kg     |          |
|                     |                             | Total Molybdenum (Mo) | 2013/07/26                  |            | <0.40    |       | mg/kg     |          |
|                     |                             | Total Nickel (Ni)     | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
| Total Selenium (Se) |                             | 2013/07/26            |                             | <0.50      |          | mg/kg |           |          |
| Total Silver (Ag)   |                             | 2013/07/26            |                             | <1.0       |          | mg/kg |           |          |
| Total Thallium (Tl) |                             | 2013/07/26            |                             | <0.30      |          | mg/kg |           |          |
| Total Tin (Sn)      | 2013/07/26                  |                       | <1.0                        |            | mg/kg    |       |           |          |
| Total Uranium (U)   | 2013/07/26                  |                       | <1.0                        |            | mg/kg    |       |           |          |
| Total Vanadium (V)  | 2013/07/26                  |                       | <1.0                        |            | mg/kg    |       |           |          |
| Total Zinc (Zn)     | 2013/07/26                  |                       | <10                         |            | mg/kg    |       |           |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch            | QC Type                  | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value                | Recovery   | UNITS | QC Limits |   |
|------------------------|--------------------------|-------------------------------|-----------------------------|----------------------|------------|-------|-----------|---|
| 7024662 SF3            | RPD [GZ1946-01]          | Total Antimony (Sb)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Arsenic (As)            | 2013/07/26                  | 12.1                 |            | %     | 35        |   |
|                        |                          | Total Barium (Ba)             | 2013/07/26                  | 6.0                  |            | %     | 35        |   |
|                        |                          | Total Beryllium (Be)          | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Cadmium (Cd)            | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Chromium (Cr)           | 2013/07/26                  | 21.1                 |            | %     | 35        |   |
|                        |                          | Total Cobalt (Co)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Copper (Cu)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Lead (Pb)               | 2013/07/26                  | 4.3                  |            | %     | 35        |   |
|                        |                          | Total Mercury (Hg)            | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Molybdenum (Mo)         | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Nickel (Ni)             | 2013/07/26                  | 17.1                 |            | %     | 35        |   |
|                        |                          | Total Selenium (Se)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Silver (Ag)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Thallium (Tl)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Tin (Sn)                | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Uranium (U)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Vanadium (V)            | 2013/07/26                  | 5.8                  |            | %     | 35        |   |
|                        |                          | Total Zinc (Zn)               | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | 7024739 JSM                   | Matrix Spike                | Soluble Calcium (Ca) | 2013/07/26 |       | 109       | % |
| Soluble Magnesium (Mg) | 2013/07/26               |                               |                             |                      | 121        | %     | 75 - 125  |   |
| Soluble Sodium (Na)    | 2013/07/26               |                               |                             |                      | NC         | %     | 75 - 125  |   |
| Soluble Potassium (K)  | 2013/07/26               |                               |                             |                      | 116        | %     | 75 - 125  |   |
| QC Standard            | Soluble Calcium (Ca)     |                               | 2013/07/26                  |                      | 112        | %     | 75 - 125  |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  |                      | 115        | %     | 75 - 125  |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  |                      | 110        | %     | 75 - 125  |   |
|                        | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | 108        | %     | 75 - 125  |   |
| Spiked Blank           | Soluble Sulphate (SO4)   |                               | 2013/07/26                  |                      | 119        | %     | 78 - 122  |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  |                      | 99         | %     | 75 - 125  |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
| Method Blank           | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  | <1.5                 |            | mg/L  |           |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  | <1.0                 |            | mg/L  |           |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  | <2.5                 |            | mg/L  |           |   |
| RPD                    | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | <1.3       |       | mg/L      |   |
|                        | Soluble Sulphate (SO4)   |                               | 2013/07/26                  |                      | <5.0       |       | mg/L      |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  | 14.5                 |            | %     | 35        |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  | 12.7                 |            | %     | 35        |   |
|                        | Soluble Sodium (Na)      | 2013/07/26                    | 3.5                         |                      | %          | 35    |           |   |
|                        | Soluble Potassium (K)    | 2013/07/26                    | 5.1                         |                      | %          | 35    |           |   |
|                        | Soluble Sulphate (SO4)   | 2013/07/26                    | 7.3                         |                      | %          | 35    |           |   |
|                        |                          |                               |                             |                      |            |       |           |   |
| 7024833 NC3            | Matrix Spike [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  |                      | 103        | %     | 75 - 125  |   |
|                        | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  |                      | 100        | %     | 75 - 125  |   |
|                        | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10                |            | mg/kg |           |   |
|                        | RPD [GZ1928-01]          | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC                   |            | %     | 35        |   |
| 7025101 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |                      | 107        | %     | 75 - 125  |   |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26                  |                      | 117        | %     | 75 - 125  |   |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |                      | 103        | %     | 75 - 125  |   |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |                      | 102        | %     | 75 - 125  |   |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch            | QC Type      | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |
|------------------------|--------------|------------------------|-----------------------------|------------|----------|-------|-----------|
| 7025101 JSM            | QC Standard  | Soluble Sulphate (SO4) | 2013/07/26                  |            | 120      | %     | 78 - 122  |
|                        | Spiked Blank | Soluble Calcium (Ca)   | 2013/07/26                  |            | 101      | %     | 75 - 125  |
|                        |              | Soluble Magnesium (Mg) | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|                        |              | Soluble Sodium (Na)    | 2013/07/26                  |            | 106      | %     | 75 - 125  |
|                        |              | Soluble Potassium (K)  | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|                        |              | Method Blank           | Soluble Calcium (Ca)        | 2013/07/26 | <1.5     |       | mg/L      |
|                        | RPD          | Soluble Magnesium (Mg) | 2013/07/26                  | <1.0       |          | mg/L  |           |
|                        |              | Soluble Sodium (Na)    | 2013/07/26                  | <2.5       |          | mg/L  |           |
|                        |              | Soluble Potassium (K)  | 2013/07/26                  | <1.3       |          | mg/L  |           |
|                        |              | Soluble Sulphate (SO4) | 2013/07/26                  | <5.0       |          | mg/L  |           |
|                        |              | Soluble Calcium (Ca)   | 2013/07/26                  | 28.5       |          | %     | 35        |
|                        |              | Soluble Magnesium (Mg) | 2013/07/26                  | 10.3       |          | %     | 35        |
|                        |              | Soluble Sodium (Na)    | 2013/07/26                  | 3.4        |          | %     | 35        |
|                        | 7025470 KD5  | Matrix Spike           | Soluble Potassium (K)       | 2013/07/26 | 34.3     |       | %         |
| Soluble Sulphate (SO4) |              |                        | 2013/07/26                  | 6.4        |          | %     | 35        |
| QC Standard            |              | Soluble Chloride (Cl)  | 2013/07/26                  |            | 78       | %     | 75 - 125  |
| Spiked Blank           |              | Soluble Chloride (Cl)  | 2013/07/26                  |            | 90       | %     | 75 - 125  |
| Method Blank           |              | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0       |          | mg/L  |           |
| RPD                    |              | Soluble Chloride (Cl)  | 2013/07/26                  | 1.8        |          | %     | 35        |

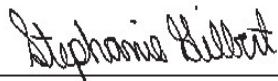
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Stephanie Gilbert, Senior Analyst



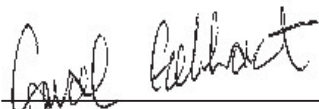
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Poonam Sharma, Senior Analyst, Organics Department



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Daniel Reslan, Volatiles Supervisor



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst





## Validation Signature Page

**Maxxam Job #: B362533**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.









Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/31**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Extractable Barium                     | 7        | 2013/07/31        | 2013/07/31       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 19       | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 6        | 2013/07/22        | 2013/07/26       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 12       | 2013/07/22        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 1        | 2013/07/24        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key



Sherlyne Sim

01 Aug 2013 10:55:50 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1





Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                      |                                  |                       |                       |            |                 |
|---------------|--------------|----------------------|----------------------------------|-----------------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1925                           | GZ1926                | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:30              | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              | A134514                          | A134514               | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-DN<br/>(4M) Lab-Dup</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
| Moisture                      | %     | 7.6     | N/A     | 27      | 7.8     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | 29      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | 650     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | 230     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | 0.028   | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 105     | 117     | 106     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 99      | 102     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 122     | 120     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 97      | 100     | 99      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | N/A     | 92      | 103     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                   |                      |                      |                      |            |                 |
|---------------|--------------|-----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1927                            | GZ1928               | GZ1930               | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:40               | 2013/07/19<br>16:50  | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514                           | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-2EN<br/>(4M) Lab-Dup</b> | <b>EX-13-LN (4M)</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |     |         |         |         |        |         |
|-------------------------------|-------|-----|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |     |         |         |         |        |         |
| Moisture                      | %     | N/A | 12      | 7.5     | 6.3     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |     |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 18  | 190     | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |     |         |         |         |        |         |
| Benzene                       | mg/kg | N/A | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | N/A | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |     |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | N/A | 109     | 105     | 107     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | N/A | 100     | 100     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | N/A | 126     | 128     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | N/A | 101     | 99      | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 99  | 94      | 93      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1933               | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
|---------------|--------------|----------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 8.5     | 2.5     | 3.7     | 3.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 16      | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 70      | <50     | 51      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 105     | 103     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | 98      | 101     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 126     | 127     | 123     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 98      | 98      | 102     | 102     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 105     | 98      | 107     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 9.7     | 5.9     | 4.3     | 2.9     | 2.7     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 65      | <10     | 23      | 26      | 14      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 100     | 67      | 67      | 130     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 60      | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 100     | 105     | 101     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 92      | 102     | 100     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 124     | 125     | 125     | 122     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 97      | 94      | 102     | 101     | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | 105     | 95      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                |  |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         | GZ1948                                     |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                                 |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                                    |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE N END<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.2     | 3.6     | 3.7 | 7013448 | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 58      | N/A | 7011232 | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | 7011232 | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | 7012055 | <0.0050 | 0.0050 | 7022378 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | 7012055 | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 104     | N/A | 7012055 | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 101     | 99      | N/A | 7012055 | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)       | %     | 130     | 127     | N/A | 7012055 | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 101     | 101     | N/A | 7012055 | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | N/A | 7011232 | 86      | N/A    | 7019559 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                       |            |                       |            |                 |
|---------------|--------------|----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               |            | GZ1926                |            | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  |            | 2013/07/19<br>16:35   |            | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              |            | A134514               |            | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>RDL</b> | <b>EX-13-1EN (4M)</b> | <b>RDL</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                      |            |                      |            |                 |
|---------------|--------------|----------------------|------------|----------------------|------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928               |            | GZ1930               |            | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50  |            | 2013/07/19<br>17:00  |            | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514              |            | A134514              |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>EX-13-AW (4M)</b> | <b>RDL</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit



### SOIL SALINITY 4 (SOIL)

|               |              |                                  |            |                      |            |                                |            |                 |
|---------------|--------------|----------------------------------|------------|----------------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1932                           |            | GZ1933               |            | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:20              |            | 2013/07/19<br>17:30  |            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          |            | A134514              |            | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW<br/>(4M) Lab-Dup</b> | <b>RDL</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |       |       |       |       |         |
|--------------------------------|-----------|------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | N/A  | N/A   | 6.5   | N/A   | 1.3   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | N/A  | N/A   | 8.9   | N/A   | 3.7   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | N/A  | 0.10  | 11    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | N/A  | 0.010 | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | N/A  | 0.50  | 37    | 0.59  | 11    | 0.39  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | N/A  | 0.33  | 14    | 0.39  | 1.8   | 0.26  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | N/A  | 0.83  | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | N/A  | 0.43  | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | N/A  | 1.7   | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | N/A  | 1.7   | 110   | 2.0   | 13    | 1.3   | 7007668 |
| <b>Soluble Parameters</b>      |           |      |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | N/A  | 5.0   | 17    | 5.0   | 8.6   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | N/A  | 0.020 | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67 | N/A   | 7.63  | N/A   | 7.59  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | N/A  | 0.10  | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | N/A  | 1.5   | 95    | 1.5   | 42    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | N/A  | 1.0   | 37    | 1.0   | 6.7   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | N/A  | 2.5   | 20    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | N/A  | 1.3   | 8.3   | 1.3   | 13    | 1.3   | 7024739 |
| Saturation %                   | %         | N/A  | N/A   | 39    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | N/A  | 5.0   | 290   | 5.0   | 51    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | N/A  | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1935              |            | GZ1936              |            | GZ1937              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>QC Batch</b> |
|               |              | <b>N END W SIDE</b> |            | <b>S END W SIDE</b> |            | <b>N END E SIDE</b> |            |                 |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.2   | N/A   | 1.1   | N/A   | 3.7   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 3.9   | N/A   | 4.1   | N/A   | 5.0   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 3.4   | 0.010 | 3.9   | 0.010 | 1.3   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 13    | 0.45  | 19    | 0.54  | 13    | 0.42  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.8   | 0.30  | 2.5   | 0.36  | 2.8   | 0.28  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 0.76  | 4.4   | 0.91  | 8.5   | 0.70  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.4   | 0.39  | 4.8   | 0.47  | 4.6   | 0.36  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.5   | 2.8   | 1.8   | 9.7   | 1.4   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.5   | 15    | 1.8   | 37    | 1.4   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.9   | 5.0   | 7.8   | 5.0   | 35    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.37  | 0.020 | 0.42  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67  | N/A   | 7.63  | N/A   | 7.50  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.10  | 0.41  | 0.10  | 1.1   | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 43    | 1.5   | 54    | 1.5   | 48    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 5.9   | 1.0   | 6.8   | 1.0   | 10    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 13    | 2.5   | 12    | 2.5   | 31    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 1.3   | 13    | 1.3   | 16    | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 36    | N/A   | 28    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 47    | 5.0   | 40    | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                     |            |                                     |               |            |                                |            |                 |
|---------------|--------------|-------------------------------------|------------|-------------------------------------|---------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1938                              |            | GZ1939                              | GZ1943        |            | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19                          |            | 2013/07/19                          | 2013/07/19    |            | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             |            | A134515                             | A134515       |            | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.1   | N/A   | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 6.7   | N/A   | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 8.7   | 0.10  | 11    | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 2.1   | 0.010 | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 25    | 0.45  | 15    | 12    | 0.39  | 9.9   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.4   | 0.30  | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.8   | 0.74  | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.8   | 0.39  | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 4.4   | 1.5   | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 39    | 1.5   | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 15    | 5.0   | 21    | 5.6   | 5.0   | 5.4   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.76  | 0.020 | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.79  | N/A   | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.43  | 0.10  | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 85    | 1.5   | 57    | 45    | 1.5   | 39    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 12    | 1.0   | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 15    | 13    | 2.5   | 14    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 30    | 1.3   | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 26    | 26    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 130   | 5.0   | 100   | 24    | 5.0   | 19    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.34  | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.3   | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.7   | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 2.6   | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.47  | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 3.2   | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 0.72  | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 4.2   | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 6.88  | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.95  | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 10    | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 1.8   | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 13    | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 2.8   | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 16    | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                      |                      |                      |            |                 |
|---------------|--------------|----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928                           | GZ1930               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50              | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514                          | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(4M) Lab-Dup</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |      |        |        |        |       |         |
|-------------------------------|-------|------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.14 | 0.18   | 0.12   | 0.59   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A  | <0.15  | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A  | 6.0    | 5.0    | 5.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A  | 240    | 79     | 100    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A  | <0.40  | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A  | <0.10  | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A  | 9.2    | 12     | 7.2    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A  | 3.8    | 3.6    | 4.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A  | <5.0   | <5.0   | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A  | 3.4    | 3.0    | 3.6    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A  | <0.050 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A  | 0.56   | 0.51   | 0.54   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A  | 11     | 12     | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A  | <0.50  | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A  | <0.30  | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A  | 12     | 12     | 14     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A  | 24     | 25     | 28     | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                                |                                |                                |            |                 |
|---------------|--------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1933                           | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:30              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(4M) Lab-Dup</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A   | 0.19  | 0.13  | 0.16  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A   | 6.2   | 4.2   | 6.3   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A   | 2300  | 2600  | 2700  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A   | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A   | 0.10  | <0.10 | 0.12  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A   | 37    | 12    | 8.8   | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A   | 3.2   | 1.5   | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A   | 7.8   | 5.8   | 8.1   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A   | 18    | 19    | 39    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A   | 0.058 | 0.063 | 0.072 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A   | 1.1   | 0.49  | 0.89  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A   | 21    | 7.2   | 7.4   | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A   | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A   | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A   | 13    | 11    | 15    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A   | 29    | 23    | 33    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Elements</b>               |       |       |       |       |        |        |       |         |
|-------------------------------|-------|-------|-------|-------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.12  | 0.19  | 0.13  | 0.16   | 0.17   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 3.7   | 5.0   | 5.5   | 5.3    | 6.1    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 630   | 2600  | 1100  | 730    | 480    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | <0.10 | <0.10 | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 27    | 24    | 18    | 8.9    | 15     | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.2   | 1.8   | 2.2   | 2.3    | 3.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0  | 5.6   | <5.0  | 6.7    | 6.6    | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 8.5   | 15    | 9.7   | 9.0    | 12     | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.051 | 0.053 | 0.063 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.73  | 0.76  | 0.70  | 0.72   | 0.70   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 13    | 12    | 11    | 7.2    | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12    | 14    | 11    | 13     | 15     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | <10   | 18    | <10   | 20     | 24     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |  |                                |                                |                 |  |            |                 |
|---------------|--------------|--|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                                     | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                                 | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                    | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END<br/>Lab-Dup</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A    | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A    | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.9    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 510    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | 0.13   | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 18     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.6    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.8    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 13     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.76   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 14     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 16     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 26     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                      |                      |                      |                      |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1931               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:10  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514              | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-BW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |                                |                                |            |                 |
|---------------|--------------|--------------------------------|--|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1934                                 | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30                    | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                        | A134514                                | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1 S END<br/>E SIDE Lab-Dup</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 47     | N/A    | 43     | 45     | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |      |         |
| Sieve - Pan  | %     | 7.0    | 5.8    | 3.8    | 5.6    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 93     | 94     | 96     | 94     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |      |         |

|               |              |                                |                                     |                                     |               |                                |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 25     | 34     | 32     | 37     | N/A    | N/A    | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |        |        |      |         |
| Sieve - Pan  | %     | 2.8    | 4.0    | 1.3    | 6.9    | 9.8    | 3.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 97     | 96     | 99     | 93     | 90     | 96     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |        |        |      |         |



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |            |                 |
|---------------|--------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>       |   |        |        |      |         |
|----------------------------------|---|--------|--------|------|---------|
| Sieve - Pan                      | % | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |      |         |





Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                |            | GZ1928               |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |        |            |        |         |
|-------------------------------|-------|---------|---------|---------|--------|------------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 0.10   | <0.10      | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.042   | <0.010  | 0.010  | <0.010     | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 0.0040 | <0.0040    | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0060  | <0.0050 | 0.0050 | 0.0079     | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0053  | 0.029   | 0.0050 | 0.17       | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 0.041   | 0.0050 | 0.044      | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 0.0085     | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.015   | 0.0059  | 0.025   | 0.0050 | 0.018      | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0084  | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | <0.016 (1) | 0.016  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |            |        |         |
| D10-ANTHRACENE (sur.)         | %     | 106     | 96      | 113     | N/A    | 108        | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 86      | 99      | N/A    | 96         | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 98      | 100     | 113     | N/A    | 112        | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 115     | 115     | 134 (2) | N/A    | 132 (2)    | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to matrix interference.  
( 2 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                      |                              |                 |                      |            |                 |
|---------------|--------------|----------------------|------------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1930                       |                 | GZ1931               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:00          |                 | 2013/07/19<br>17:10  |            |                 |
| COC Number    |              | A134514              | A134514                      |                 | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-AW (4M) Lab-Dup</b> | <b>QC Batch</b> | <b>EX-13-BW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | N/A     | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.037   | 0.022   | 7023968 | 0.021   | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 106     | 7023968 | 109     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 93      | 89      | 7023968 | 89      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 108     | 102     | 7023968 | 106     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 121     | 7023968 | 125     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1932               | GZ1933               | GZ1934                         | GZ1935                         |            |                 |
|---------------|--------------|----------------------|----------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514              | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0057  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0056  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0060  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0094  | 0.025   | 0.0073  | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 114     | 109     | 109     | 101     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 90      | 86      | 86      | 81      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 110     | 108     | 107     | 100     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 130     | 126     | 126     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134515                             | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0094  | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0076  | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 110     | 107     | 107     | 104     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 87      | 88      | 86      | 86      | 84      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 109     | 110     | 106     | 105     | 104     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 130     | 123     | 124     | 123     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                                |                                |                                |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                         | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | <0.0050 | 0.0051  | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 104     | 108     | 106     | 7023968 | 97      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 85      | 81      | 7023968 | 69      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 103     | 108     | 105     | 7023968 | 96      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 122     | 126     | 123     | 7023968 | 111     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch               | QC Type                         | Parameter                      | Date Analyzed<br>yyyy/mm/dd  | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|---------------------------------|--------------------------------|------------------------------|------------|----------|-------|-----------|----------|
| 7011232 KN0               | Matrix Spike<br>[GZ1928-01]     | O-TERPHENYL (sur.)             | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                   |            | 100      | %     | 50 - 130  |          |
|                           | Spiked Blank                    | O-TERPHENYL (sur.)             | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                   |            | 116      | %     | 70 - 130  |          |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                   |            | 117      | %     | 70 - 130  |          |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                   |            | 113      | %     | 70 - 130  |          |
|                           | Method Blank                    | O-TERPHENYL (sur.)             | 2013/07/25                   |            |          | 98    | %         | 50 - 130 |
|                           |                                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                   |            | <10      |       | mg/kg     |          |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           |                                 | F4 (C34-C50 Hydrocarbons)      | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           | RPD [GZ1927-01]                 | F2 (C10-C16 Hydrocarbons)      | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                                 | F3 (C16-C34 Hydrocarbons)      | 2013/07/25                   |            | NC       |       | %         | 50       |
| F4 (C34-C50 Hydrocarbons) |                                 | 2013/07/25                     |                              | NC         |          | %     | 50        |          |
|                           |                                 |                                |                              |            |          |       |           |          |
| 7011691 KD5               | Matrix Spike<br>[GZ1933-01]     | Hex. Chromium (Cr 6+)          | 2013/07/23                   |            | 82       | %     | 75 - 125  |          |
|                           |                                 | Spiked Blank                   | Hex. Chromium (Cr 6+)        | 2013/07/23 |          | 101   | %         | 90 - 110 |
|                           | Method Blank<br>RPD [GZ1933-01] | Hex. Chromium (Cr 6+)          | 2013/07/23                   |            | <0.15    |       | mg/kg     |          |
|                           |                                 | Hex. Chromium (Cr 6+)          | 2013/07/23                   |            | NC       |       | %         | 35       |
| 7012055 CG7               | Matrix Spike<br>[GZ1926-01]     | 1,4-Difluorobenzene (sur.)     | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)    | 2013/07/25                   |            | 100      | %     | 60 - 140  |          |
|                           |                                 | D10-ETHYLBENZENE (sur.)        | 2013/07/25                   |            | 120      | %     | 60 - 130  |          |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.)   | 2013/07/25                   |            | 102      | %     | 60 - 140  |          |
|                           |                                 | Benzene                        | 2013/07/25                   |            | 96       | %     | 60 - 140  |          |
|                           |                                 | Toluene                        | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           |                                 | Ethylbenzene                   | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                                 | m & p-Xylene                   | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           |                                 | o-Xylene                       | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                                 | (C6-C10)                       | 2013/07/25                   |            | 86       | %     | 60 - 140  |          |
|                           |                                 | Spiked Blank                   | 1,4-Difluorobenzene (sur.)   | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           |                                 |                                | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25 |          | 96    | %         | 60 - 140 |
|                           |                                 |                                | D10-ETHYLBENZENE (sur.)      | 2013/07/25 |          | 119   | %         | 60 - 130 |
|                           |                                 |                                | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           | Benzene                         |                                | 2013/07/25                   |            | 112      | %     | 60 - 140  |          |
|                           | Toluene                         |                                | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           | Ethylbenzene                    |                                | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           | m & p-Xylene                    |                                | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           | o-Xylene                        |                                | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           | (C6-C10)                        |                                | 2013/07/25                   |            | 88       | %     | 60 - 140  |          |
|                           | Method Blank                    | 1,4-Difluorobenzene (sur.)     | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                                 | 4-BROMOFLUOROBENZENE (sur.)    | 2013/07/25                   |            | 79       | %     | 60 - 140  |          |
|                           |                                 | D10-ETHYLBENZENE (sur.)        | 2013/07/25                   |            | 127      | %     | 60 - 130  |          |
|                           |                                 | D4-1,2-DICHLOROETHANE (sur.)   | 2013/07/25                   |            | 111      | %     | 60 - 140  |          |
|                           |                                 | Benzene                        | 2013/07/25                   |            | <0.0050  |       | mg/kg     |          |
|                           |                                 | Toluene                        | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           |                                 | Ethylbenzene                   | 2013/07/25                   |            | <0.010   |       | mg/kg     |          |
|                           |                                 | Xylenes (Total)                | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                                 | m & p-Xylene                   | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                                 | o-Xylene                       | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           | RPD [GZ1925-01]                 | F1 (C6-C10) - BTEX<br>(C6-C10) | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                                 |                                | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                                 | Benzene                        | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                                 |                                |                              |            |          |       |           |          |
|                           |                                 |                                |                              |            |          |       |           |          |
|                           |                                 |                                |                              |            |          |       |           |          |



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| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25                  | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23                  | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23                  | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25                  |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25                  | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25                  | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | 1.3    |          | %     | 35        |
| 7019559 KNO | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26                  |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26                  | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25                  | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26                  |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26                  |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26                  | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25                  |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25                  |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25                  | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25                  |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25                  |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25                  |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 93       | %     | 60 - 140  |



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| QA/QC Batch | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|-------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7022378 YS5 | Spiked Blank                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95       | %     | 60 - 130  |          |
|             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|             |                              | Benzene                      | 2013/07/25                  |            | 108      | %     | 60 - 140  |          |
|             |                              | Toluene                      | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|             |                              | Ethylbenzene                 | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|             |                              | m & p-Xylene                 | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|             |                              | o-Xylene                     | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|             |                              | (C6-C10)                     | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|             |                              | Method Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 104   | %         | 60 - 140 |
|             |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|             | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 103      | %     | 60 - 130  |          |
|             | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 99       | %     | 60 - 140  |          |
|             | Benzene                      |                              | 2013/07/25                  | <0.0050    |          | mg/kg |           |          |
|             | RPD                          | Toluene                      | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|             |                              | Ethylbenzene                 | 2013/07/25                  | <0.010     |          | mg/kg |           |          |
|             |                              | Xylenes (Total)              | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|             |                              | m & p-Xylene                 | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|             |                              | o-Xylene                     | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|             |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          | mg/kg |           |          |
|             |                              | (C6-C10)                     | 2013/07/25                  | <12        |          | mg/kg |           |          |
|             |                              | Benzene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | Toluene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          | %     | 50        |          |
|             | 7022580 AD7                  | QC Standard                  | Saturation %                | 2013/07/26 |          | 103   | %         | 93 - 107 |
|             |                              | RPD                          | Saturation %                | 2013/07/26 | 0.9      |       | %         | 12       |
| 7022770 SSF |                              | QC Standard                  | Soluble Conductivity        | 2013/07/26 |          | 104   | %         | 85 - 115 |
|             |                              | Spiked Blank                 | Soluble Conductivity        | 2013/07/26 |          | 101   | %         | 90 - 110 |
| 7023896 SSF |                              | Method Blank                 | Soluble Conductivity        | 2013/07/26 | <0.020   |       | dS/m      |          |
|             | RPD                          | Soluble Conductivity         | 2013/07/26                  | 24.1       |          | %     | 35        |          |
| 7023968 YM1 | QC Standard                  | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102      | %     | 97 - 103  |          |
|             | Spiked Blank                 | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100      | %     | 97 - 103  |          |
|             | RPD [GZ1932-01]              | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |          | %     | 5         |          |
| 7023968 YM1 | Matrix Spike<br>[GZ1931-01]  | D10-ANTHRACENE (sur.)        | 2013/07/26                  |            | 97       | %     | 50 - 130  |          |
|             |                              | D12-BENZO(A)PYRENE (sur.)    | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|             |                              | D8-ACENAPHTHYLENE (sur.)     | 2013/07/26                  |            | 93       | %     | 50 - 130  |          |
|             |                              | TERPHENYL-D14 (sur.)         | 2013/07/26                  |            | 106      | %     | 50 - 130  |          |
|             |                              | Acenaphthene                 | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|             |                              | Acenaphthylene               | 2013/07/26                  |            | 90       | %     | 50 - 130  |          |
|             |                              | Acridine                     | 2013/07/26                  |            | 64       | %     | 50 - 130  |          |
|             |                              | Anthracene                   | 2013/07/26                  |            | 91       | %     | 50 - 130  |          |
|             |                              | Benzo(a)anthracene           | 2013/07/26                  |            | 86       | %     | 50 - 130  |          |
|             |                              | Benzo(b&j)fluoranthene       | 2013/07/26                  |            | 78       | %     | 50 - 130  |          |
|             |                              | Benzo(k)fluoranthene         | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|             |                              | Benzo(g,h,i)perylene         | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |
|             |                              | Benzo(c)phenanthrene         | 2013/07/26                  |            | 77       | %     | 50 - 130  |          |
|             |                              | Benzo(a)pyrene               | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|             |                              | Benzo[e]pyrene               | 2013/07/26                  |            | 74       | %     | 50 - 130  |          |
|             |                              | Chrysene                     | 2013/07/26                  |            | 75       | %     | 50 - 130  |          |
|             |                              | Dibenz(a,h)anthracene        | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |



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| QA/QC Batch Num Init  | QC Type                  | Parameter                 | Date Analyzed yyyy/mm/dd | Value   | Recovery | UNITS    | QC Limits |  |
|-----------------------|--------------------------|---------------------------|--------------------------|---------|----------|----------|-----------|--|
| 7023968 YM1           | Matrix Spike [GZ1931-01] | Fluoranthene              | 2013/07/26               |         | 95       | %        | 50 - 130  |  |
|                       |                          | Fluorene                  | 2013/07/26               |         | 95       | %        | 50 - 130  |  |
|                       |                          | Indeno(1,2,3-cd)pyrene    | 2013/07/26               |         | 83       | %        | 50 - 130  |  |
|                       | Spiked Blank             | 2-Methylnaphthalene       | 2013/07/26               |         | 76       | %        | 50 - 130  |  |
|                       |                          | Naphthalene               | 2013/07/26               |         | 81       | %        | 50 - 130  |  |
|                       |                          | Phenanthrene              | 2013/07/26               |         | 88       | %        | 50 - 130  |  |
|                       |                          | Perylene                  | 2013/07/26               |         | 77       | %        | 50 - 130  |  |
|                       |                          | Pyrene                    | 2013/07/26               |         | 92       | %        | 50 - 130  |  |
|                       |                          | Quinoline                 | 2013/07/26               |         | 106      | %        | 50 - 130  |  |
|                       |                          | D10-ANTHRACENE (sur.)     | 2013/07/26               |         | 86       | %        | 50 - 130  |  |
|                       |                          | D12-BENZO(A)PYRENE (sur.) | 2013/07/26               |         | 76       | %        | 50 - 130  |  |
|                       |                          | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26               |         | 82       | %        | 50 - 130  |  |
|                       |                          | TERPHENYL-D14 (sur.)      | 2013/07/26               |         | 95       | %        | 50 - 130  |  |
|                       |                          | Acenaphthene              | 2013/07/26               |         | 81       | %        | 50 - 130  |  |
|                       |                          | Acenaphthylene            | 2013/07/26               |         | 81       | %        | 50 - 130  |  |
|                       |                          | Acridine                  | 2013/07/26               |         | 58       | %        | 50 - 130  |  |
|                       |                          | Anthracene                | 2013/07/26               |         | 81       | %        | 50 - 130  |  |
|                       |                          | Benzo(a)anthracene        | 2013/07/26               |         | 79       | %        | 50 - 130  |  |
|                       |                          | Benzo(b&j)fluoranthene    | 2013/07/26               |         | 71       | %        | 50 - 130  |  |
|                       |                          | Benzo(k)fluoranthene      | 2013/07/26               |         | 81       | %        | 50 - 130  |  |
|                       |                          | Benzo(g,h,i)perylene      | 2013/07/26               |         | 73       | %        | 50 - 130  |  |
|                       |                          | Benzo(c)phenanthrene      | 2013/07/26               |         | 70       | %        | 50 - 130  |  |
|                       |                          | Benzo(a)pyrene            | 2013/07/26               |         | 82       | %        | 50 - 130  |  |
|                       |                          | Benzo[e]pyrene            | 2013/07/26               |         | 68       | %        | 50 - 130  |  |
|                       |                          | Chrysene                  | 2013/07/26               |         | 70       | %        | 50 - 130  |  |
|                       |                          | Dibenz(a,h)anthracene     | 2013/07/26               |         | 72       | %        | 50 - 130  |  |
|                       |                          | Fluoranthene              | 2013/07/26               |         | 85       | %        | 50 - 130  |  |
|                       |                          | Fluorene                  | 2013/07/26               |         | 85       | %        | 50 - 130  |  |
|                       |                          | Indeno(1,2,3-cd)pyrene    | 2013/07/26               |         | 71       | %        | 50 - 130  |  |
|                       |                          | 2-Methylnaphthalene       | 2013/07/26               |         | 71       | %        | 50 - 130  |  |
|                       |                          | Naphthalene               | 2013/07/26               |         | 72       | %        | 50 - 130  |  |
|                       |                          | Phenanthrene              | 2013/07/26               |         | 79       | %        | 50 - 130  |  |
|                       |                          | Perylene                  | 2013/07/26               |         | 69       | %        | 50 - 130  |  |
|                       | Pyrene                   | 2013/07/26                |                          | 84      | %        | 50 - 130 |           |  |
|                       | Method Blank             | Quinoline                 | 2013/07/26               |         | 109      | %        | 50 - 130  |  |
|                       |                          | D10-ANTHRACENE (sur.)     | 2013/07/26               |         | 108      | %        | 50 - 130  |  |
|                       |                          | D12-BENZO(A)PYRENE (sur.) | 2013/07/26               |         | 85       | %        | 50 - 130  |  |
|                       |                          | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26               |         | 99       | %        | 50 - 130  |  |
|                       |                          | TERPHENYL-D14 (sur.)      | 2013/07/26               |         | 118      | %        | 50 - 130  |  |
|                       |                          | Acenaphthene              | 2013/07/26               | <0.0050 |          |          | mg/kg     |  |
|                       |                          | Acenaphthylene            | 2013/07/26               | <0.0050 |          |          | mg/kg     |  |
|                       |                          | Acridine                  | 2013/07/26               | <0.010  |          |          | mg/kg     |  |
|                       |                          | Anthracene                | 2013/07/26               | <0.0040 |          |          | mg/kg     |  |
|                       |                          | Benzo(a)anthracene        | 2013/07/26               | <0.0050 |          |          | mg/kg     |  |
|                       |                          | Benzo(b&j)fluoranthene    | 2013/07/26               | <0.0050 |          |          | mg/kg     |  |
| Benzo(k)fluoranthene  |                          | 2013/07/26                | <0.0050                  |         |          | mg/kg    |           |  |
| Benzo(g,h,i)perylene  |                          | 2013/07/26                | <0.0050                  |         |          | mg/kg    |           |  |
| Benzo(c)phenanthrene  |                          | 2013/07/26                | <0.0050                  |         |          | mg/kg    |           |  |
| Benzo(a)pyrene        |                          | 2013/07/26                | <0.0050                  |         |          | mg/kg    |           |  |
| Benzo[e]pyrene        | 2013/07/26               | <0.0050                   |                          |         | mg/kg    |          |           |  |
| Chrysene              | 2013/07/26               | <0.0050                   |                          |         | mg/kg    |          |           |  |
| Dibenz(a,h)anthracene | 2013/07/26               | <0.0050                   |                          |         | mg/kg    |          |           |  |
| Fluoranthene          | 2013/07/26               | <0.0050                   |                          |         | mg/kg    |          |           |  |
| Fluorene              | 2013/07/26               | <0.0050                   |                          |         | mg/kg    |          |           |  |



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| QA/QC Batch | QC Type                     | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value                 | Recovery   | UNITS | QC Limits |       |          |
|-------------|-----------------------------|------------------------|-----------------------------|-----------------------|------------|-------|-----------|-------|----------|
| 7023968 YM1 | Method Blank                | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Perylene               | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             | RPD [GZ1930-01]             | Quinoline              | 2013/07/26                  | <0.010                |            | mg/kg |           |       |          |
|             |                             | Acenaphthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acenaphthylene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acridine               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Anthracene             | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)anthracene     | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(b&j)fluoranthene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(k)fluoranthene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(g,h,i)perylene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(c)phenanthrene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo[e]pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Chrysene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Dibenz(a,h)anthracene  | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluoranthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluorene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Perylene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Quinoline              | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 7024524 KD5            | Matrix Spike                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 86        | %     | 75 - 125 |
|             |                             |                        | Spiked Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 99        | %     | 90 - 110 |
|             |                             |                        | Method Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 | <0.15 |           | mg/kg |          |
| RPD         | Hex. Chromium (Cr 6+)       |                        | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024579 KD5 | Matrix Spike                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 102        | %     | 75 - 125  |       |          |
|             | QC Standard                 | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             | Spiked Blank                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 101        | %     | 75 - 125  |       |          |
|             | Method Blank                | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0                  |            | mg/L  |           |       |          |
|             | RPD                         | Soluble Chloride (Cl)  | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Antimony (Sb)    | 2013/07/26                  |                       | 90         | %     | 75 - 125  |       |          |
|             |                             | Total Arsenic (As)     | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Barium (Ba)      | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Beryllium (Be)   | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Cadmium (Cd)     | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Chromium (Cr)    | 2013/07/26                  |                       | 96         | %     | 75 - 125  |       |          |
|             |                             | Total Cobalt (Co)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Copper (Cu)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Lead (Pb)        | 2013/07/26                  |                       | 88         | %     | 75 - 125  |       |          |
|             |                             | Total Magnesium (Mg)   | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Mercury (Hg)     | 2013/07/26                  |                       | 91         | %     | 75 - 125  |       |          |
|             |                             | Total Molybdenum (Mo)  | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Nickel (Ni)      | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Selenium (Se)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Silver (Ag)      | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Thallium (Tl)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |



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|---------------------|-----------------------------|-----------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7024662 SF3         | Matrix Spike<br>[GZ1946-01] | Total Tin (Sn)        | 2013/07/26                  |            | 98       | %     | 75 - 125  |          |
|                     |                             | Total Uranium (U)     | 2013/07/26                  |            | 82       | %     | 75 - 125  |          |
|                     |                             | Total Vanadium (V)    | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                     |                             | Total Zinc (Zn)       | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                     | QC Standard                 | Total Arsenic (As)    | 2013/07/26                  |            | 119      | %     | 50 - 150  |          |
|                     |                             | Total Barium (Ba)     | 2013/07/26                  |            | 115      | %     | 69 - 131  |          |
|                     |                             | Total Chromium (Cr)   | 2013/07/26                  |            | 109      | %     | 41 - 159  |          |
|                     |                             | Total Cobalt (Co)     | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                     |                             | Total Copper (Cu)     | 2013/07/26                  |            | 106      | %     | 73 - 127  |          |
|                     |                             | Total Lead (Pb)       | 2013/07/26                  |            | 101      | %     | 54 - 146  |          |
|                     |                             | Total Magnesium (Mg)  | 2013/07/26                  |            | 94       | %     | 69 - 131  |          |
|                     |                             | Total Nickel (Ni)     | 2013/07/26                  |            | 115      | %     | 61 - 139  |          |
|                     |                             | Total Vanadium (V)    | 2013/07/26                  |            | 125      | %     | 50 - 150  |          |
|                     |                             | Total Zinc (Zn)       | 2013/07/26                  |            | 109      | %     | 72 - 128  |          |
|                     |                             | Spiked Blank          | Total Antimony (Sb)         | 2013/07/26 |          | 92    | %         | 75 - 125 |
|                     | Total Arsenic (As)          |                       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                     | Total Barium (Ba)           |                       | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                     | Total Beryllium (Be)        |                       | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                     | Total Cadmium (Cd)          |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Chromium (Cr)         |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Cobalt (Co)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Copper (Cu)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Lead (Pb)             |                       | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                     | Total Magnesium (Mg)        |                       | 2013/07/26                  |            | 89       | %     | 75 - 125  |          |
|                     | Total Mercury (Hg)          |                       | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                     | Total Molybdenum (Mo)       |                       | 2013/07/26                  |            | 95       | %     | 75 - 125  |          |
|                     | Total Nickel (Ni)           |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Total Selenium (Se)         |                       | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                     | Total Silver (Ag)           |                       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                     | Total Thallium (Tl)         |                       | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                     | Total Tin (Sn)              |                       | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                     | Total Uranium (U)           |                       | 2013/07/26                  |            | 82       | %     | 75 - 125  |          |
|                     | Total Vanadium (V)          |                       | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                     | Total Zinc (Zn)             |                       | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                     | Method Blank                | Total Antimony (Sb)   | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Arsenic (As)    | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Barium (Ba)     | 2013/07/26                  |            | <10      |       | mg/kg     |          |
|                     |                             | Total Beryllium (Be)  | 2013/07/26                  |            | <0.40    |       | mg/kg     |          |
|                     |                             | Total Cadmium (Cd)    | 2013/07/26                  |            | <0.10    |       | mg/kg     |          |
|                     |                             | Total Chromium (Cr)   | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Cobalt (Co)     | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Copper (Cu)     | 2013/07/26                  |            | <5.0     |       | mg/kg     |          |
|                     |                             | Total Lead (Pb)       | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                     |                             | Total Magnesium (Mg)  | 2013/07/26                  |            | <100     |       | mg/kg     |          |
|                     |                             | Total Mercury (Hg)    | 2013/07/26                  |            | <0.050   |       | mg/kg     |          |
|                     |                             | Total Molybdenum (Mo) | 2013/07/26                  |            | <0.40    |       | mg/kg     |          |
|                     |                             | Total Nickel (Ni)     | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
| Total Selenium (Se) |                             | 2013/07/26            |                             | <0.50      |          | mg/kg |           |          |
| Total Silver (Ag)   |                             | 2013/07/26            |                             | <1.0       |          | mg/kg |           |          |
| Total Thallium (Tl) |                             | 2013/07/26            |                             | <0.30      |          | mg/kg |           |          |
| Total Tin (Sn)      |                             | 2013/07/26            |                             | <1.0       |          | mg/kg |           |          |
| Total Uranium (U)   |                             | 2013/07/26            |                             | <1.0       |          | mg/kg |           |          |
| Total Vanadium (V)  |                             | 2013/07/26            |                             | <1.0       |          | mg/kg |           |          |
| Total Zinc (Zn)     |                             | 2013/07/26            |                             | <10        |          | mg/kg |           |          |





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|------------------------|--------------------------|-------------------------------|-----------------------------|----------------------|------------|-------|-----------|---|
| 7024662 SF3            | RPD [GZ1946-01]          | Total Antimony (Sb)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Arsenic (As)            | 2013/07/26                  | 12.1                 |            | %     | 35        |   |
|                        |                          | Total Barium (Ba)             | 2013/07/26                  | 6.0                  |            | %     | 35        |   |
|                        |                          | Total Beryllium (Be)          | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Cadmium (Cd)            | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Chromium (Cr)           | 2013/07/26                  | 21.1                 |            | %     | 35        |   |
|                        |                          | Total Cobalt (Co)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Copper (Cu)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Lead (Pb)               | 2013/07/26                  | 4.3                  |            | %     | 35        |   |
|                        |                          | Total Mercury (Hg)            | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Molybdenum (Mo)         | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Nickel (Ni)             | 2013/07/26                  | 17.1                 |            | %     | 35        |   |
|                        |                          | Total Selenium (Se)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Silver (Ag)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Thallium (Tl)           | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Tin (Sn)                | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Uranium (U)             | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | Total Vanadium (V)            | 2013/07/26                  | 5.8                  |            | %     | 35        |   |
|                        |                          | Total Zinc (Zn)               | 2013/07/26                  | NC                   |            | %     | 35        |   |
|                        |                          | 7024739 JSM                   | Matrix Spike                | Soluble Calcium (Ca) | 2013/07/26 |       | 109       | % |
| Soluble Magnesium (Mg) | 2013/07/26               |                               |                             |                      | 121        | %     | 75 - 125  |   |
| Soluble Sodium (Na)    | 2013/07/26               |                               |                             |                      | NC         | %     | 75 - 125  |   |
| Soluble Potassium (K)  | 2013/07/26               |                               |                             |                      | 116        | %     | 75 - 125  |   |
| QC Standard            | Soluble Calcium (Ca)     |                               | 2013/07/26                  |                      | 112        | %     | 75 - 125  |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  |                      | 115        | %     | 75 - 125  |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  |                      | 110        | %     | 75 - 125  |   |
|                        | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | 108        | %     | 75 - 125  |   |
| Spiked Blank           | Soluble Sulphate (SO4)   |                               | 2013/07/26                  |                      | 119        | %     | 78 - 122  |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  |                      | 99         | %     | 75 - 125  |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
| Method Blank           | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  | <1.5                 |            | mg/L  |           |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  | <1.0                 |            | mg/L  |           |   |
|                        | Soluble Sodium (Na)      |                               | 2013/07/26                  | <2.5                 |            | mg/L  |           |   |
| RPD                    | Soluble Potassium (K)    |                               | 2013/07/26                  |                      | <1.3       |       | mg/L      |   |
|                        | Soluble Sulphate (SO4)   |                               | 2013/07/26                  |                      | <5.0       |       | mg/L      |   |
|                        | Soluble Calcium (Ca)     |                               | 2013/07/26                  | 14.5                 |            | %     | 35        |   |
|                        | Soluble Magnesium (Mg)   |                               | 2013/07/26                  | 12.7                 |            | %     | 35        |   |
|                        | Soluble Sodium (Na)      | 2013/07/26                    | 3.5                         |                      | %          | 35    |           |   |
|                        | Soluble Potassium (K)    | 2013/07/26                    | 5.1                         |                      | %          | 35    |           |   |
|                        | Soluble Sulphate (SO4)   | 2013/07/26                    | 7.3                         |                      | %          | 35    |           |   |
|                        |                          |                               |                             |                      |            |       |           |   |
| 7024833 NC3            | Matrix Spike [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  |                      | 103        | %     | 75 - 125  |   |
|                        | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  |                      | 100        | %     | 75 - 125  |   |
|                        | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10                |            | mg/kg |           |   |
|                        | RPD [GZ1928-01]          | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC                   |            | %     | 35        |   |
| 7025101 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |                      | 107        | %     | 75 - 125  |   |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |                      | 105        | %     | 75 - 125  |   |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26                  |                      | 117        | %     | 75 - 125  |   |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26                  |                      | 109        | %     | 75 - 125  |   |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26                  |                      | 103        | %     | 75 - 125  |   |
|                        |                          | Soluble Potassium (K)         | 2013/07/26                  |                      | 102        | %     | 75 - 125  |   |



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|--------------|--------------|-------------------------|-----------------------------|------------|----------|-------|-----------|
| 7025101 JSM  | QC Standard  | Soluble Sulphate (SO4)  | 2013/07/26                  |            | 120      | %     | 78 - 122  |
|              | Spiked Blank | Soluble Calcium (Ca)    | 2013/07/26                  |            | 101      | %     | 75 - 125  |
|              |              | Soluble Magnesium (Mg)  | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|              |              | Soluble Sodium (Na)     | 2013/07/26                  |            | 106      | %     | 75 - 125  |
|              |              | Soluble Potassium (K)   | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|              |              | Method Blank            | Soluble Calcium (Ca)        | 2013/07/26 | <1.5     |       | mg/L      |
|              | RPD          | Soluble Magnesium (Mg)  | 2013/07/26                  | <1.0       |          | mg/L  |           |
|              |              | Soluble Sodium (Na)     | 2013/07/26                  | <2.5       |          | mg/L  |           |
|              |              | Soluble Potassium (K)   | 2013/07/26                  | <1.3       |          | mg/L  |           |
|              |              | Soluble Sulphate (SO4)  | 2013/07/26                  | <5.0       |          | mg/L  |           |
|              |              | Soluble Calcium (Ca)    | 2013/07/26                  | 28.5       |          | %     | 35        |
|              |              | Soluble Magnesium (Mg)  | 2013/07/26                  | 10.3       |          | %     | 35        |
|              |              | Soluble Sodium (Na)     | 2013/07/26                  | 3.4        |          | %     | 35        |
|              | 7025470 KD5  | Matrix Spike            | Soluble Chloride (Cl)       | 2013/07/26 |          |       | %         |
| QC Standard  |              | Soluble Chloride (Cl)   | 2013/07/26                  |            | 78       | %     | 75 - 125  |
| Spiked Blank |              | Soluble Chloride (Cl)   | 2013/07/26                  |            | 90       | %     | 75 - 125  |
| Method Blank |              | Soluble Chloride (Cl)   | 2013/07/26                  | <5.0       |          | mg/L  | 75 - 125  |
| RPD          |              | Soluble Chloride (Cl)   | 2013/07/26                  | 1.8        |          | %     | 35        |
| 7037181 JHC  | Matrix Spike | Extractable Barium (Ba) | 2013/07/31                  |            | NC       | %     | 75 - 125  |
|              | Spiked Blank | Extractable Barium (Ba) | 2013/07/31                  |            | 89       | %     | 75 - 125  |
|              | Method Blank | Extractable Barium (Ba) | 2013/07/31                  | <1.0       |          | mg/kg |           |
|              | RPD          | Extractable Barium (Ba) | 2013/07/31                  | 0.5        |          | %     | 35        |

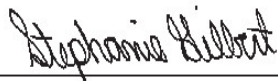
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Stephanie Gilbert, Senior Analyst



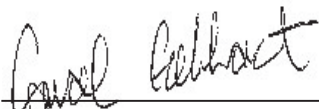
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Poonam Sharma, Senior Analyst, Organics Department



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Daniel Reslan, Volatiles Supervisor



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst



## Validation Signature Page

**Maxxam Job #: B362533**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Company: **IEG Consultants Ltd.**  
 Contact: **Nicole Wills**  
 Address: **2618 Hopewell Place NE**  
 Prov: **Calgary, AB** PC: **T1Y 7J7**  
 Contact #s: Ph: **403-829-3048** Cell: **same**

Report To: **Same as Invoice**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Ph: \_\_\_\_\_ Cell: \_\_\_\_\_

Report Distribution (E-Mail):  
**nwills@klehn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #: **A04012A05**  
 Project # / Name: **71**  
 Site Location: **Camp Farewell**  
 Quote #:  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve) Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID | Depth (unit)          | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |            |               | Other Analysis |                               |         |  | HOLD - Do not Analyze | # of Containers Submitted |
|-----------|-----------------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------------|---------------|----------------|-------------------------------|---------|--|-----------------------|---------------------------|
|           |                       |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | BTEX F1-F2 | Routine Water | TOC            | Regulated Metals (CCME / AT1) | Mercury |  |                       |                           |
| 1         | N Wall #1             | 4m                  | Soil 13/07/19 16:30              | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 2 Jars / 1 Bag            |
| 2         | N Wall #2             | 4m                  | 16:35                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 2 Jars / 1 Bag            |
| 3         | N Wall #3             | 4m                  | 16:40                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 2 Jars / 1 Bag            |
| 4         | N Wall #4             | 4m                  | 16:50                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 5         | W Wall #1             | 4m                  | 17:00                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 6         | W Wall #2             | 4m                  | 17:10                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 7         | W Wall #3             | 4m                  | 17:20                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 8         | W Wall #4             | 4m                  | 17:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 9         | Pile # 1 S End E side | Camp.               | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 11                        |
| 10        | Pile # 1 N End W side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       | 4 Jars                    |
| 11        | Pile # 1 S End W side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       |                           |
| 12        | Pile # 1 N End E side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |  |                       |                           |

Please indicate Filtered, Preserved or Both (F, P, F/P)

SBF/mfc

Relinquished By (Signature/Print): **Nicole Wills** Date (YY/MM/DD): **13/07/19** Time (24:00): **18:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_  
 Special Instructions: **Please notify when received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 S End E side mixed before analysis, etc.).**  
 # of Jars Used & Not Submitted: **Page 38 of 39**

LAB USE ONLY  
 Received By: **BOSU** Date: **2013 07 22** Time: **10:14**  
 Maxxam Job #: **B362533**  
 Custody Seal: \_\_\_\_\_ Temperature: **8, 6, 6** Ice: **Present**  
 Lab Comments: \_\_\_\_\_  
**AS sent**  
**BSB**  
**6, 4, 4**









Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/08/03**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

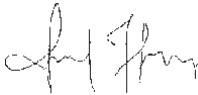
Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Extractable Barium                     | 7        | 2013/07/31        | 2013/07/31       | AB SOP-00042      | EPA 200.7         |
| Barium on ICP using Fusion Extraction  | 7        | 2013/08/02        | 2013/08/02       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 19       | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 6        | 2013/07/22        | 2013/07/26       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 12       | 2013/07/22        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 1        | 2013/07/24        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key

 Jennifer Thompson  
04 Aug 2013 12:32:33 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                      |                                  |                       |                       |            |                 |
|---------------|--------------|----------------------|----------------------------------|-----------------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1925                           | GZ1926                | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:30              | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              | A134514                          | A134514               | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-DN<br/>(4M) Lab-Dup</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
| Moisture                      | %     | 7.6     | N/A     | 27      | 7.8     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | 29      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | 650     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | 230     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | 0.028   | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 105     | 117     | 106     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 99      | 102     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 122     | 120     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 97      | 100     | 99      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | N/A     | 92      | 103     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                   |                      |                      |                      |            |                 |
|---------------|--------------|-----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1927                            | GZ1928               | GZ1930               | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:40               | 2013/07/19<br>16:50  | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514                           | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-2EN<br/>(4M) Lab-Dup</b> | <b>EX-13-LN (4M)</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |     |         |         |         |        |         |
|-------------------------------|-------|-----|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |     |         |         |         |        |         |
| Moisture                      | %     | N/A | 12      | 7.5     | 6.3     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |     |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 18  | 190     | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |     |         |         |         |        |         |
| Benzene                       | mg/kg | N/A | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | N/A | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |     |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | N/A | 109     | 105     | 107     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | N/A | 100     | 100     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | N/A | 126     | 128     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | N/A | 101     | 99      | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 99  | 94      | 93      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1933               | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
|---------------|--------------|----------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 8.5     | 2.5     | 3.7     | 3.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 16      | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 70      | <50     | 51      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 105     | 103     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | 98      | 101     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 126     | 127     | 123     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 98      | 98      | 102     | 102     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 105     | 98      | 107     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 9.7     | 5.9     | 4.3     | 2.9     | 2.7     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 65      | <10     | 23      | 26      | 14      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 100     | 67      | 67      | 130     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 60      | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 100     | 105     | 101     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 92      | 102     | 100     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 124     | 125     | 125     | 122     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 97      | 94      | 102     | 101     | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | 105     | 95      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                |  |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         | GZ1948                                     |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                                 |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                                    |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE N END<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.2     | 3.6     | 3.7 | 7013448 | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 58      | N/A | 7011232 | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | 7011232 | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | 7012055 | <0.0050 | 0.0050 | 7022378 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | 7012055 | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 104     | N/A | 7012055 | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 101     | 99      | N/A | 7012055 | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)       | %     | 130     | 127     | N/A | 7012055 | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 101     | 101     | N/A | 7012055 | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | N/A | 7011232 | 86      | N/A    | 7019559 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                       |            |                       |            |                 |
|---------------|--------------|----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               |            | GZ1926                |            | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  |            | 2013/07/19<br>16:35   |            | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              |            | A134514               |            | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>RDL</b> | <b>EX-13-1EN (4M)</b> | <b>RDL</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                      |            |                      |            |                 |
|---------------|--------------|----------------------|------------|----------------------|------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928               |            | GZ1930               |            | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50  |            | 2013/07/19<br>17:00  |            | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514              |            | A134514              |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>EX-13-AW (4M)</b> | <b>RDL</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                  |            |                      |            |                                |            |                 |
|---------------|--------------|----------------------------------|------------|----------------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1932                           |            | GZ1933               |            | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:20              |            | 2013/07/19<br>17:30  |            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          |            | A134514              |            | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW<br/>(4M) Lab-Dup</b> | <b>RDL</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |       |       |       |       |         |
|--------------------------------|-----------|------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | N/A  | N/A   | 6.5   | N/A   | 1.3   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | N/A  | N/A   | 8.9   | N/A   | 3.7   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | N/A  | 0.10  | 11    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | N/A  | 0.010 | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | N/A  | 0.50  | 37    | 0.59  | 11    | 0.39  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | N/A  | 0.33  | 14    | 0.39  | 1.8   | 0.26  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | N/A  | 0.83  | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | N/A  | 0.43  | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | N/A  | 1.7   | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | N/A  | 1.7   | 110   | 2.0   | 13    | 1.3   | 7007668 |
| <b>Soluble Parameters</b>      |           |      |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | N/A  | 5.0   | 17    | 5.0   | 8.6   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | N/A  | 0.020 | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67 | N/A   | 7.63  | N/A   | 7.59  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | N/A  | 0.10  | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | N/A  | 1.5   | 95    | 1.5   | 42    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | N/A  | 1.0   | 37    | 1.0   | 6.7   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | N/A  | 2.5   | 20    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | N/A  | 1.3   | 8.3   | 1.3   | 13    | 1.3   | 7024739 |
| Saturation %                   | %         | N/A  | N/A   | 39    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | N/A  | 5.0   | 290   | 5.0   | 51    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | N/A  | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1935              |            | GZ1936              |            | GZ1937              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>QC Batch</b> |
|               |              | <b>N END W SIDE</b> |            | <b>S END W SIDE</b> |            | <b>N END E SIDE</b> |            |                 |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.2   | N/A   | 1.1   | N/A   | 3.7   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 3.9   | N/A   | 4.1   | N/A   | 5.0   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 3.4   | 0.010 | 3.9   | 0.010 | 1.3   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 13    | 0.45  | 19    | 0.54  | 13    | 0.42  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.8   | 0.30  | 2.5   | 0.36  | 2.8   | 0.28  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 0.76  | 4.4   | 0.91  | 8.5   | 0.70  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.4   | 0.39  | 4.8   | 0.47  | 4.6   | 0.36  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.5   | 2.8   | 1.8   | 9.7   | 1.4   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.5   | 15    | 1.8   | 37    | 1.4   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.9   | 5.0   | 7.8   | 5.0   | 35    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.37  | 0.020 | 0.42  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67  | N/A   | 7.63  | N/A   | 7.50  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.10  | 0.41  | 0.10  | 1.1   | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 43    | 1.5   | 54    | 1.5   | 48    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 5.9   | 1.0   | 6.8   | 1.0   | 10    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 13    | 2.5   | 12    | 2.5   | 31    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 1.3   | 13    | 1.3   | 16    | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 36    | N/A   | 28    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 47    | 5.0   | 40    | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                     |            |                                     |               |            |                                |            |                 |
|---------------|--------------|-------------------------------------|------------|-------------------------------------|---------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1938                              |            | GZ1939                              | GZ1943        |            | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19                          |            | 2013/07/19                          | 2013/07/19    |            | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             |            | A134515                             | A134515       |            | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.1   | N/A   | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 6.7   | N/A   | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 8.7   | 0.10  | 11    | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 2.1   | 0.010 | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 25    | 0.45  | 15    | 12    | 0.39  | 9.9   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.4   | 0.30  | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.8   | 0.74  | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.8   | 0.39  | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 4.4   | 1.5   | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 39    | 1.5   | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 15    | 5.0   | 21    | 5.6   | 5.0   | 5.4   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.76  | 0.020 | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.79  | N/A   | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.43  | 0.10  | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 85    | 1.5   | 57    | 45    | 1.5   | 39    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 12    | 1.0   | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 15    | 13    | 2.5   | 14    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 30    | 1.3   | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 26    | 26    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 130   | 5.0   | 100   | 24    | 5.0   | 19    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.34  | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.3   | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.7   | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 2.6   | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.47  | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 3.2   | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 0.72  | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 4.2   | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 6.88  | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.95  | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 10    | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 1.8   | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 13    | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 2.8   | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 16    | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                      |                      |                      |            |                 |
|---------------|--------------|----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928                           | GZ1930               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50              | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514                          | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(4M) Lab-Dup</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |      |        |        |        |       |         |
|-------------------------------|-------|------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.14 | 0.18   | 0.12   | 0.59   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A  | <0.15  | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A  | 6.0    | 5.0    | 5.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A  | 240    | 79     | 100    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A  | <0.40  | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A  | <0.10  | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A  | 9.2    | 12     | 7.2    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A  | 3.8    | 3.6    | 4.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A  | <5.0   | <5.0   | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A  | 3.4    | 3.0    | 3.6    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A  | <0.050 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A  | 0.56   | 0.51   | 0.54   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A  | 11     | 12     | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A  | <0.50  | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A  | <0.30  | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A  | 12     | 12     | 14     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A  | 24     | 25     | 28     | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                                |                                |                                |            |                 |
|---------------|--------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1933                           | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:30              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(4M) Lab-Dup</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A   | 0.19  | 0.13  | 0.16  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A   | 6.2   | 4.2   | 6.3   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A   | 2300  | 2600  | 2700  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A   | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A   | 0.10  | <0.10 | 0.12  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A   | 37    | 12    | 8.8   | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A   | 3.2   | 1.5   | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A   | 7.8   | 5.8   | 8.1   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A   | 18    | 19    | 39    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A   | 0.058 | 0.063 | 0.072 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A   | 1.1   | 0.49  | 0.89  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A   | 21    | 7.2   | 7.4   | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A   | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A   | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A   | 13    | 11    | 15    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A   | 29    | 23    | 33    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |        |        |       |         |
|-------------------------------|-------|-------|-------|-------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.12  | 0.19  | 0.13  | 0.16   | 0.17   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 3.7   | 5.0   | 5.5   | 5.3    | 6.1    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 630   | 2600  | 1100  | 730    | 480    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | <0.10 | <0.10 | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 27    | 24    | 18    | 8.9    | 15     | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.2   | 1.8   | 2.2   | 2.3    | 3.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0  | 5.6   | <5.0  | 6.7    | 6.6    | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 8.5   | 15    | 9.7   | 9.0    | 12     | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.051 | 0.053 | 0.063 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.73  | 0.76  | 0.70  | 0.72   | 0.70   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 13    | 12    | 11    | 7.2    | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12    | 14    | 11    | 13     | 15     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | <10   | 18    | <10   | 20     | 24     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |  |                                |                                |                 |  |            |                 |
|---------------|--------------|--|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                                     | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                                 | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                    | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END<br/>Lab-Dup</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A    | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A    | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.9    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 510    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | 0.13   | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 18     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.6    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.8    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 13     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.76   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 14     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 16     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 26     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                      |                      |                      |                      |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1931               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:10  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514              | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-BW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |                                |                                |            |                 |
|---------------|--------------|--------------------------------|--|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1934                                 | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30                    | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                        | A134514                                | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1 S END<br/>E SIDE Lab-Dup</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 47     | N/A    | 43     | 45     | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |      |         |
| Sieve - Pan  | %     | 7.0    | 5.8    | 3.8    | 5.6    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 93     | 94     | 96     | 94     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |      |         |

|               |              |                                |                                     |                                     |               |                                |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 25     | 34     | 32     | 37     | N/A    | N/A    | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |        |        |      |         |
| Sieve - Pan  | %     | 2.8    | 4.0    | 1.3    | 6.9    | 9.8    | 3.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 97     | 96     | 99     | 93     | 90     | 96     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |        |        |      |         |



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

### RESULTS OF CHEMICAL ANALYSES OF SOIL

|               |              |                                |  |            |                 |
|---------------|--------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>       |   |        |        |      |         |
|----------------------------------|---|--------|--------|------|---------|
| Sieve - Pan                      | % | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |      |         |



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                |            | GZ1928               |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |        |            |        |         |
|-------------------------------|-------|---------|---------|---------|--------|------------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 0.10   | <0.10      | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.042   | <0.010  | 0.010  | <0.010     | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 0.0040 | <0.0040    | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0060  | <0.0050 | 0.0050 | 0.0079     | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0053  | 0.029   | 0.0050 | 0.17       | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 0.041   | 0.0050 | 0.044      | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 0.0085     | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.015   | 0.0059  | 0.025   | 0.0050 | 0.018      | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0084  | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | <0.016 (1) | 0.016  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |            |        |         |
| D10-ANTHRACENE (sur.)         | %     | 106     | 96      | 113     | N/A    | 108        | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 86      | 99      | N/A    | 96         | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 98      | 100     | 113     | N/A    | 112        | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 115     | 115     | 134 (2) | N/A    | 132 (2)    | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to matrix interference.  
( 2 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                      |                                  |                 |                      |            |                 |
|---------------|--------------|----------------------|----------------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1930                           |                 | GZ1931               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:00              |                 | 2013/07/19<br>17:10  |            |                 |
| COC Number    |              | A134514              | A134514                          |                 | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-AW<br/>(4M) Lab-Dup</b> | <b>QC Batch</b> | <b>EX-13-BW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | N/A     | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.037   | 0.022   | 7023968 | 0.021   | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 106     | 7023968 | 109     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 93      | 89      | 7023968 | 89      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 108     | 102     | 7023968 | 106     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 121     | 7023968 | 125     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |       | GZ1932              | GZ1933              | GZ1934                 | GZ1935                 |     |          |
|---------------|-------|---------------------|---------------------|------------------------|------------------------|-----|----------|
| Sampling Date |       | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30    | 2013/07/19<br>14:30    |     |          |
| COC Number    |       | A134514             | A134514             | A134514                | A134514                |     |          |
|               | UNITS | EX-13-CW (4M)       | EX-13-DW (4M)       | PILE#1<br>S END E SIDE | PILE#1<br>N END W SIDE | RDL | QC Batch |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0057  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0056  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0060  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0094  | 0.025   | 0.0073  | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 114     | 109     | 109     | 101     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 90      | 86      | 86      | 81      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 110     | 108     | 107     | 100     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 130     | 126     | 126     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134515                             | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0094  | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0076  | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 110     | 107     | 107     | 104     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 87      | 88      | 86      | 86      | 84      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 109     | 110     | 106     | 105     | 104     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 130     | 123     | 124     | 123     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |       | GZ1946                 | GZ1947                 | GZ1948                 |          | GZ2419                          |     |          |
|---------------|-------|------------------------|------------------------|------------------------|----------|---------------------------------|-----|----------|
| Sampling Date |       | 2013/07/19             | 2013/07/19             | 2013/07/19             |          | 2013/07/19                      |     |          |
| COC Number    |       | A134515                | A134515                | A134515                |          | A134515                         |     |          |
|               | UNITS | PILE#3 E<br>SIDE N END | PILE#3 W<br>SIDE S END | PILE#3 W<br>SIDE N END | QC Batch | PILE<br>#3 E SIDE<br>S END (EX) | RDL | QC Batch |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | <0.0050 | 0.0051  | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 104     | 108     | 106     | 7023968 | 97      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 85      | 81      | 7023968 | 69      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 103     | 108     | 105     | 7023968 | 96      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 122     | 126     | 123     | 7023968 | 111     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

|               |              |                                |                                |                                |                                |                                     |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|                          |       |      |      |      |      |      |    |         |
|--------------------------|-------|------|------|------|------|------|----|---------|
| <b>Elements</b>          |       |      |      |      |      |      |    |         |
| Total Fusion Barium (Ba) | mg/kg | 2900 | 5400 | 7600 | 1100 | 3100 | 50 | 7046467 |

RDL = Reportable Detection Limit

|               |              |                                     |               |            |                 |
|---------------|--------------|-------------------------------------|---------------|------------|-----------------|
| Maxxam ID     |              | GZ1939                              | GZ1943        |            |                 |
| Sampling Date |              | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

|                          |       |      |      |    |         |
|--------------------------|-------|------|------|----|---------|
| <b>Elements</b>          |       |      |      |    |         |
| Total Fusion Barium (Ba) | mg/kg | 1800 | 1400 | 50 | 7046467 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch Num Init      | QC Type                      | Parameter                    | Date Analyzed yyyy/mm/dd   | Value      | Recovery | UNITS    | QC Limits |          |
|---------------------------|------------------------------|------------------------------|----------------------------|------------|----------|----------|-----------|----------|
| 7011232 KN0               | Matrix Spike [GZ1928-01]     | O-TERPHENYL (sur.)           | 2013/07/25                 |            | 98       | %        | 50 - 130  |          |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                 |            | 98       | %        | 50 - 130  |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                 |            | 102      | %        | 50 - 130  |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                 |            | 100      | %        | 50 - 130  |          |
|                           | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                 |            | 102      | %        | 50 - 130  |          |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                 |            | 116      | %        | 70 - 130  |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                 |            | 117      | %        | 70 - 130  |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                 |            | 113      | %        | 70 - 130  |          |
|                           | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                 |            |          | 98       | %         | 50 - 130 |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                 |            | <10      |          | mg/kg     |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                 |            | <50      |          | mg/kg     |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                 |            | <50      |          | mg/kg     |          |
|                           | RPD [GZ1927-01]              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                 |            | NC       |          | %         | 50       |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                 |            | NC       |          | %         | 50       |
| F4 (C34-C50 Hydrocarbons) |                              | 2013/07/25                   |                            | NC         |          | %        | 50        |          |
|                           |                              |                              |                            |            |          |          |           |          |
| 7011691 KD5               | Matrix Spike [GZ1933-01]     | Hex. Chromium (Cr 6+)        | 2013/07/23                 |            | 82       | %        | 75 - 125  |          |
|                           |                              | Spiked Blank                 | Hex. Chromium (Cr 6+)      | 2013/07/23 |          | 101      | %         | 90 - 110 |
|                           | Method Blank                 | Hex. Chromium (Cr 6+)        | 2013/07/23                 |            | <0.15    |          | mg/kg     |          |
|                           | RPD [GZ1933-01]              | Hex. Chromium (Cr 6+)        | 2013/07/23                 |            | NC       |          | %         | 35       |
| 7012055 CG7               | Matrix Spike [GZ1926-01]     | 1,4-Difluorobenzene (sur.)   | 2013/07/25                 |            | 115      | %        | 60 - 140  |          |
|                           |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                 |            | 100      | %        | 60 - 140  |          |
|                           |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                 |            | 120      | %        | 60 - 130  |          |
|                           |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                 |            | 102      | %        | 60 - 140  |          |
|                           |                              | Benzene                      | 2013/07/25                 |            | 96       | %        | 60 - 140  |          |
|                           |                              | Toluene                      | 2013/07/25                 |            | 93       | %        | 60 - 140  |          |
|                           |                              | Ethylbenzene                 | 2013/07/25                 |            | 90       | %        | 60 - 140  |          |
|                           |                              | m & p-Xylene                 | 2013/07/25                 |            | 91       | %        | 60 - 140  |          |
|                           |                              | o-Xylene (C6-C10)            | 2013/07/25                 |            | 90       | %        | 60 - 140  |          |
|                           |                              | Spiked Blank                 | 1,4-Difluorobenzene (sur.) | 2013/07/25 |          | 119      | %         | 60 - 140 |
|                           |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                 |            | 96       | %        | 60 - 140  |          |
|                           |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                 |            | 119      | %        | 60 - 130  |          |
|                           |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                 |            | 119      | %        | 60 - 140  |          |
|                           |                              | Benzene                      | 2013/07/25                 |            | 112      | %        | 60 - 140  |          |
|                           | Toluene                      | 2013/07/25                   |                            | 94         | %        | 60 - 140 |           |          |
|                           | Ethylbenzene                 | 2013/07/25                   |                            | 91         | %        | 60 - 140 |           |          |
|                           | m & p-Xylene                 | 2013/07/25                   |                            | 94         | %        | 60 - 140 |           |          |
|                           | o-Xylene (C6-C10)            | 2013/07/25                   |                            | 93         | %        | 60 - 140 |           |          |
|                           | Method Blank                 | 1,4-Difluorobenzene (sur.)   | 2013/07/25                 |            | 88       | %        | 60 - 140  |          |
|                           | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                   |                            | 79         | %        | 60 - 140 |           |          |
|                           | D10-ETHYLBENZENE (sur.)      | 2013/07/25                   |                            | 127        | %        | 60 - 130 |           |          |
|                           | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                   |                            | 111        | %        | 60 - 140 |           |          |
|                           | Benzene                      | 2013/07/25                   |                            | <0.0050    |          | mg/kg    |           |          |
|                           | Toluene                      | 2013/07/25                   |                            | <0.020     |          | mg/kg    |           |          |
|                           | Ethylbenzene                 | 2013/07/25                   |                            | <0.010     |          | mg/kg    |           |          |
|                           | Xylenes (Total)              | 2013/07/25                   |                            | <0.040     |          | mg/kg    |           |          |
|                           | m & p-Xylene                 | 2013/07/25                   |                            | <0.040     |          | mg/kg    |           |          |
|                           | o-Xylene                     | 2013/07/25                   |                            | <0.020     |          | mg/kg    |           |          |
|                           | F1 (C6-C10) - BTEX (C6-C10)  | 2013/07/25                   |                            | <12        |          | mg/kg    |           |          |
|                           | RPD [GZ1925-01]              | Benzene                      | 2013/07/25                 |            | <12      |          | mg/kg     |          |
|                           |                              |                              |                            |            | NC       |          | %         | 50       |



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| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|---------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25    | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23    | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23    | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25    |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25    | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25    | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | 1.3    |          | %     | 35        |
| 7019559 KNO | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26    |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26    | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25    | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26    |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26    |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26    | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26    | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25    |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25    |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25    | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROENZENE (sur.)   | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25    |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25    |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25    |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25    |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25    |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROENZENE (sur.)   | 2013/07/25    |        | 93       | %     | 60 - 140  |





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| QA/QC Batch        | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|--------------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7022378 YS5        | Spiked Blank                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95       | %     | 60 - 130  |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|                    |                              | Benzene                      | 2013/07/25                  |            | 108      | %     | 60 - 140  |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|                    |                              | o-Xylene                     | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|                    |                              | Method Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 104   | %         | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|                    | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 103      | %     | 60 - 130  |          |
|                    | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 99       | %     | 60 - 140  |          |
|                    | Benzene                      |                              | 2013/07/25                  | <0.0050    |          |       | mg/kg     |          |
|                    | Toluene                      |                              | 2013/07/25                  | <0.020     |          |       | mg/kg     |          |
|                    | Ethylbenzene                 |                              | 2013/07/25                  | <0.010     |          |       | mg/kg     |          |
|                    | Xylenes (Total)              |                              | 2013/07/25                  | <0.040     |          |       | mg/kg     |          |
|                    | m & p-Xylene                 |                              | 2013/07/25                  | <0.040     |          |       | mg/kg     |          |
|                    | o-Xylene                     |                              | 2013/07/25                  | <0.020     |          |       | mg/kg     |          |
|                    | RPD                          | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          |       | mg/kg     |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  | <12        |          |       | mg/kg     |          |
|                    |                              | Benzene                      | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Toluene                      | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Xylenes (Total)              | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | m & p-Xylene                 | 2013/07/25                  | NC         |          |       | %         | 50       |
| o-Xylene           |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| F1 (C6-C10) - BTEX |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| (C6-C10)           |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| 7022580 AD7        | QC Standard                  | Saturation %                 | 2013/07/26                  |            | 103      | %     | 93 - 107  |          |
|                    | RPD                          | Saturation %                 | 2013/07/26                  | 0.9        |          | %     | 12        |          |
| 7022770 SSF        | QC Standard                  | Soluble Conductivity         | 2013/07/26                  |            | 104      | %     | 85 - 115  |          |
|                    | Spiked Blank                 | Soluble Conductivity         | 2013/07/26                  |            | 101      | %     | 90 - 110  |          |
|                    | Method Blank                 | Soluble Conductivity         | 2013/07/26                  | <0.020     |          | dS/m  |           |          |
| 7023896 SSF        | RPD                          | Soluble Conductivity         | 2013/07/26                  | 24.1       |          | %     | 35        |          |
|                    | QC Standard                  | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102      | %     | 97 - 103  |          |
| 7023968 YM1        | Spiked Blank                 | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100      | %     | 97 - 103  |          |
|                    | RPD [GZ1932-01]              | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |          | %     | 5         |          |
| 7023968 YM1        | Matrix Spike<br>[GZ1931-01]  | D10-ANTHRACENE (sur.)        | 2013/07/26                  |            | 97       | %     | 50 - 130  |          |
|                    |                              | D12-BENZO(A)PYRENE (sur.)    | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|                    |                              | D8-ACENAPHTHYLENE (sur.)     | 2013/07/26                  |            | 93       | %     | 50 - 130  |          |
|                    |                              | TERPHENYL-D14 (sur.)         | 2013/07/26                  |            | 106      | %     | 50 - 130  |          |
|                    |                              | Acenaphthene                 | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|                    |                              | Acenaphthylene               | 2013/07/26                  |            | 90       | %     | 50 - 130  |          |
|                    |                              | Acridine                     | 2013/07/26                  |            | 64       | %     | 50 - 130  |          |
|                    |                              | Anthracene                   | 2013/07/26                  |            | 91       | %     | 50 - 130  |          |
|                    |                              | Benzo(a)anthracene           | 2013/07/26                  |            | 86       | %     | 50 - 130  |          |
|                    |                              | Benzo(b&j)fluoranthene       | 2013/07/26                  |            | 78       | %     | 50 - 130  |          |
|                    |                              | Benzo(k)fluoranthene         | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|                    |                              | Benzo(g,h,i)perylene         | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |
|                    |                              | Benzo(c)phenanthrene         | 2013/07/26                  |            | 77       | %     | 50 - 130  |          |
|                    |                              | Benzo(a)pyrene               | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|                    |                              | Benzo[e]pyrene               | 2013/07/26                  |            | 74       | %     | 50 - 130  |          |
|                    |                              | Chrysene                     | 2013/07/26                  |            | 75       | %     | 50 - 130  |          |
|                    |                              | Dibenz(a,h)anthracene        | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |



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| QA/QC Batch | QC Type                     | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|-----------------------------|---------------------------|-----------------------------|---------|----------|-------|-----------|
| 7023968 YM1 | Matrix Spike<br>[GZ1931-01] | Fluoranthene              | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Fluorene                  | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |         | 83       | %     | 50 - 130  |
|             |                             | 2-Methylnaphthalene       | 2013/07/26                  |         | 76       | %     | 50 - 130  |
|             |                             | Naphthalene               | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Phenanthrene              | 2013/07/26                  |         | 88       | %     | 50 - 130  |
|             |                             | Perylene                  | 2013/07/26                  |         | 77       | %     | 50 - 130  |
|             |                             | Pyrene                    | 2013/07/26                  |         | 92       | %     | 50 - 130  |
|             |                             | Quinoline                 | 2013/07/26                  |         | 106      | %     | 50 - 130  |
|             | Spiked Blank                | D10-ANTHRACENE (sur.)     | 2013/07/26                  |         | 86       | %     | 50 - 130  |
|             |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |         | 76       | %     | 50 - 130  |
|             |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |         | 82       | %     | 50 - 130  |
|             |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Acenaphthene              | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Acenaphthylene            | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Acridine                  | 2013/07/26                  |         | 58       | %     | 50 - 130  |
|             |                             | Anthracene                | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Benzo(a)anthracene        | 2013/07/26                  |         | 79       | %     | 50 - 130  |
|             |                             | Benzo(b&j)fluoranthene    | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | Benzo(k)fluoranthene      | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Benzo(g,h,i)perylene      | 2013/07/26                  |         | 73       | %     | 50 - 130  |
|             |                             | Benzo(c)phenanthrene      | 2013/07/26                  |         | 70       | %     | 50 - 130  |
|             |                             | Benzo(a)pyrene            | 2013/07/26                  |         | 82       | %     | 50 - 130  |
|             |                             | Benzo[e]pyrene            | 2013/07/26                  |         | 68       | %     | 50 - 130  |
|             |                             | Chrysene                  | 2013/07/26                  |         | 70       | %     | 50 - 130  |
|             |                             | Dibenz(a,h)anthracene     | 2013/07/26                  |         | 72       | %     | 50 - 130  |
|             |                             | Fluoranthene              | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | Fluorene                  | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | 2-Methylnaphthalene       | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | Naphthalene               | 2013/07/26                  |         | 72       | %     | 50 - 130  |
|             |                             | Phenanthrene              | 2013/07/26                  |         | 79       | %     | 50 - 130  |
|             |                             | Perylene                  | 2013/07/26                  |         | 69       | %     | 50 - 130  |
|             |                             | Pyrene                    | 2013/07/26                  |         | 84       | %     | 50 - 130  |
|             |                             | Quinoline                 | 2013/07/26                  |         | 109      | %     | 50 - 130  |
|             | Method Blank                | D10-ANTHRACENE (sur.)     | 2013/07/26                  |         | 108      | %     | 50 - 130  |
|             |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |         | 99       | %     | 50 - 130  |
|             |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                  |         | 118      | %     | 50 - 130  |
|             |                             | Acenaphthene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Acenaphthylene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Acridine                  | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                             | Anthracene                | 2013/07/26                  | <0.0040 |          | mg/kg |           |
|             |                             | Benzo(a)anthracene        | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(b&j)fluoranthene    | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(k)fluoranthene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(g,h,i)perylene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(c)phenanthrene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(a)pyrene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo[e]pyrene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Chrysene                  | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Dibenz(a,h)anthracene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Fluoranthene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Fluorene                  | 2013/07/26                  | <0.0050 |          | mg/kg |           |



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| QA/QC Batch | QC Type                     | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value                 | Recovery   | UNITS | QC Limits |       |          |
|-------------|-----------------------------|------------------------|-----------------------------|-----------------------|------------|-------|-----------|-------|----------|
| 7023968 YM1 | Method Blank                | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Perylene               | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             | RPD [GZ1930-01]             | Quinoline              | 2013/07/26                  | <0.010                |            | mg/kg |           |       |          |
|             |                             | Acenaphthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acenaphthylene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acridine               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Anthracene             | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)anthracene     | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(b&j)fluoranthene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(k)fluoranthene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(g,h,i)perylene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(c)phenanthrene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo[e]pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Chrysene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Dibenz(a,h)anthracene  | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluoranthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluorene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Perylene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Quinoline              | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 7024524 KD5            | Matrix Spike                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 86        | %     | 75 - 125 |
|             |                             |                        | Spiked Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 99        | %     | 90 - 110 |
|             |                             |                        | Method Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 | <0.15 |           | mg/kg |          |
| RPD         | Hex. Chromium (Cr 6+)       |                        | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024579 KD5 | Matrix Spike                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 102        | %     | 75 - 125  |       |          |
|             | QC Standard                 | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             | Spiked Blank                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 101        | %     | 75 - 125  |       |          |
|             | Method Blank                | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0                  |            | mg/L  |           |       |          |
|             | RPD                         | Soluble Chloride (Cl)  | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Antimony (Sb)    | 2013/07/26                  |                       | 90         | %     | 75 - 125  |       |          |
|             |                             | Total Arsenic (As)     | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Barium (Ba)      | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Beryllium (Be)   | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Cadmium (Cd)     | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Chromium (Cr)    | 2013/07/26                  |                       | 96         | %     | 75 - 125  |       |          |
|             |                             | Total Cobalt (Co)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Copper (Cu)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Lead (Pb)        | 2013/07/26                  |                       | 88         | %     | 75 - 125  |       |          |
|             |                             | Total Magnesium (Mg)   | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Mercury (Hg)     | 2013/07/26                  |                       | 91         | %     | 75 - 125  |       |          |
|             |                             | Total Molybdenum (Mo)  | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Nickel (Ni)      | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Selenium (Se)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Silver (Ag)      | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Thallium (Tl)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |



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| QA/QC Batch           | QC Type                     | Parameter            | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|-----------------------|-----------------------------|----------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7024662 SF3           | Matrix Spike<br>[GZ1946-01] | Total Tin (Sn)       | 2013/07/26                  |            | 98       | %     | 75 - 125  |          |
|                       |                             | Total Uranium (U)    | 2013/07/26                  |            | 82       | %     | 75 - 125  |          |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                       | QC Standard                 | Total Arsenic (As)   | 2013/07/26                  |            | 119      | %     | 50 - 150  |          |
|                       |                             | Total Barium (Ba)    | 2013/07/26                  |            | 115      | %     | 69 - 131  |          |
|                       |                             | Total Chromium (Cr)  | 2013/07/26                  |            | 109      | %     | 41 - 159  |          |
|                       |                             | Total Cobalt (Co)    | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                       |                             | Total Copper (Cu)    | 2013/07/26                  |            | 106      | %     | 73 - 127  |          |
|                       |                             | Total Lead (Pb)      | 2013/07/26                  |            | 101      | %     | 54 - 146  |          |
|                       |                             | Total Magnesium (Mg) | 2013/07/26                  |            | 94       | %     | 69 - 131  |          |
|                       |                             | Total Nickel (Ni)    | 2013/07/26                  |            | 115      | %     | 61 - 139  |          |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            | 125      | %     | 50 - 150  |          |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            | 109      | %     | 72 - 128  |          |
|                       |                             | Spiked Blank         | Total Antimony (Sb)         | 2013/07/26 |          | 92    | %         | 75 - 125 |
|                       | Total Arsenic (As)          |                      | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                       | Total Barium (Ba)           |                      | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                       | Total Beryllium (Be)        |                      | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                       | Total Cadmium (Cd)          |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Chromium (Cr)         |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Cobalt (Co)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Copper (Cu)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Lead (Pb)             |                      | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                       | Total Magnesium (Mg)        |                      | 2013/07/26                  |            | 89       | %     | 75 - 125  |          |
|                       | Total Mercury (Hg)          |                      | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                       | Total Molybdenum (Mo)       |                      | 2013/07/26                  |            | 95       | %     | 75 - 125  |          |
|                       | Total Nickel (Ni)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Selenium (Se)         |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Silver (Ag)           |                      | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                       | Total Thallium (Tl)         |                      | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                       | Method Blank                |                      | Total Tin (Sn)              | 2013/07/26 |          |       |           |          |
|                       |                             | Total Uranium (U)    | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            |          |       |           | 75 - 125 |
|                       |                             | Total Antimony (Sb)  | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                       |                             | Total Arsenic (As)   | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                       |                             | Total Barium (Ba)    | 2013/07/26                  |            | <10      |       | mg/kg     |          |
|                       |                             | Total Beryllium (Be) | 2013/07/26                  |            | <0.40    |       | mg/kg     |          |
|                       |                             | Total Cadmium (Cd)   | 2013/07/26                  |            | <0.10    |       | mg/kg     |          |
|                       |                             | Total Chromium (Cr)  | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                       |                             | Total Cobalt (Co)    | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                       |                             | Total Copper (Cu)    | 2013/07/26                  |            | <5.0     |       | mg/kg     |          |
|                       |                             | Total Lead (Pb)      | 2013/07/26                  |            | <1.0     |       | mg/kg     |          |
|                       |                             | Total Magnesium (Mg) | 2013/07/26                  |            | <100     |       | mg/kg     |          |
|                       | Total Mercury (Hg)          | 2013/07/26           |                             | <0.050     |          | mg/kg |           |          |
| Total Molybdenum (Mo) | 2013/07/26                  |                      | <0.40                       |            | mg/kg    |       |           |          |
| Total Nickel (Ni)     | 2013/07/26                  |                      | <1.0                        |            | mg/kg    |       |           |          |
| Total Selenium (Se)   | 2013/07/26                  |                      | <0.50                       |            | mg/kg    |       |           |          |
| Total Silver (Ag)     | 2013/07/26                  |                      | <1.0                        |            | mg/kg    |       |           |          |
| Total Thallium (Tl)   | 2013/07/26                  |                      | <0.30                       |            | mg/kg    |       |           |          |
| Total Tin (Sn)        | 2013/07/26                  |                      | <1.0                        |            | mg/kg    |       |           |          |
| Total Uranium (U)     | 2013/07/26                  |                      | <1.0                        |            | mg/kg    |       |           |          |
| Total Vanadium (V)    | 2013/07/26                  |                      | <1.0                        |            | mg/kg    |       |           |          |
| Total Zinc (Zn)       | 2013/07/26                  |                      | <10                         |            | mg/kg    |       |           |          |



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| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 7024662 SF3 | RPD [GZ1946-01] | Total Antimony (Sb)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Arsenic (As)            | 2013/07/26                  | 12.1  |          | %     | 35        |
|             |                 | Total Barium (Ba)             | 2013/07/26                  | 6.0   |          | %     | 35        |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  | 21.1  |          | %     | 35        |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Copper (Cu)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Lead (Pb)               | 2013/07/26                  | 4.3   |          | %     | 35        |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  | 17.1  |          | %     | 35        |
|             |                 | Total Selenium (Se)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Silver (Ag)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Tin (Sn)                | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Uranium (U)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Vanadium (V)            | 2013/07/26                  | 5.8   |          | %     | 35        |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  | NC    |          | %     | 35        |
| 7024739 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 121      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 116      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 112      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 115      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 110      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 108      | %     | 75 - 125  |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  |       | 119      | %     | 78 - 122  |
|             | Spiked Blank    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 99       | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | Method Blank    | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5  |          | mg/L  |           |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0  |          | mg/L  |           |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | <2.5  |          | mg/L  |           |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | <1.3  |          | mg/L  |           |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD             | Soluble Calcium (Ca)          | 2013/07/26                  | 14.5  |          | %     | 35        |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | 12.7  |          | %     | 35        |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | 3.5   |          | %     | 35        |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | 5.1   |          | %     | 35        |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | 7.3   |          | %     | 35        |
| 7024833 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             | [GZ1928-01]     | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       |          |       |           |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10 |          | mg/kg |           |
|             | RPD [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC    |          | %     | 35        |
| 7025101 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 107      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 117      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 102      | %     | 75 - 125  |



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|--------------|--------------|--------------------------|-----------------------------|------------|----------|-------|-----------|
| 7025101 JSM  | QC Standard  | Soluble Sulphate (SO4)   | 2013/07/26                  |            | 120      | %     | 78 - 122  |
|              | Spiked Blank | Soluble Calcium (Ca)     | 2013/07/26                  |            | 101      | %     | 75 - 125  |
|              |              | Soluble Magnesium (Mg)   | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|              |              | Soluble Sodium (Na)      | 2013/07/26                  |            | 106      | %     | 75 - 125  |
|              |              | Soluble Potassium (K)    | 2013/07/26                  |            | 102      | %     | 75 - 125  |
|              |              | Method Blank             | Soluble Calcium (Ca)        | 2013/07/26 | <1.5     |       | mg/L      |
|              | RPD          | Soluble Magnesium (Mg)   | 2013/07/26                  | <1.0       |          | mg/L  |           |
|              |              | Soluble Sodium (Na)      | 2013/07/26                  | <2.5       |          | mg/L  |           |
|              |              | Soluble Potassium (K)    | 2013/07/26                  | <1.3       |          | mg/L  |           |
|              |              | Soluble Sulphate (SO4)   | 2013/07/26                  | <5.0       |          | mg/L  |           |
|              |              | Soluble Calcium (Ca)     | 2013/07/26                  | 28.5       |          | %     | 35        |
|              |              | Soluble Magnesium (Mg)   | 2013/07/26                  | 10.3       |          | %     | 35        |
|              |              | Soluble Sodium (Na)      | 2013/07/26                  | 3.4        |          | %     | 35        |
|              | 7025470 KD5  | Matrix Spike             | Soluble Chloride (Cl)       | 2013/07/26 |          |       | %         |
| QC Standard  |              | Soluble Chloride (Cl)    | 2013/07/26                  |            | 78       | %     | 75 - 125  |
| Spiked Blank |              | Soluble Chloride (Cl)    | 2013/07/26                  |            | 90       | %     | 75 - 125  |
| Method Blank |              | Soluble Chloride (Cl)    | 2013/07/26                  | <5.0       |          | mg/L  | 75 - 125  |
| RPD          |              | Soluble Chloride (Cl)    | 2013/07/26                  | 1.8        |          | %     | 35        |
| 7037181 JHC  | Matrix Spike | Extractable Barium (Ba)  | 2013/07/31                  |            | NC       | %     | 75 - 125  |
|              | Spiked Blank | Extractable Barium (Ba)  | 2013/07/31                  |            | 89       | %     | 75 - 125  |
|              | Method Blank | Extractable Barium (Ba)  | 2013/07/31                  | <1.0       |          | mg/kg |           |
|              | RPD          | Extractable Barium (Ba)  | 2013/07/31                  | 0.5        |          | %     | 35        |
| 7046467 NC3  | QC Standard  | Total Fusion Barium (Ba) | 2013/08/02                  |            | 108      | %     | 60 - 140  |
|              | Spiked Blank | Total Fusion Barium (Ba) | 2013/08/02                  |            | 96       | %     | 80 - 120  |
|              | Method Blank | Total Fusion Barium (Ba) | 2013/08/02                  | <50        |          | mg/kg |           |
|              | RPD          | Total Fusion Barium (Ba) | 2013/08/02                  | 2.7        |          | %     | 35        |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.



Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



---

Stephanie Gilbert, Senior Analyst



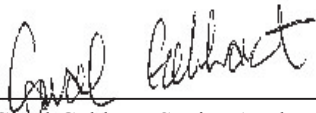
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Poonam Sharma, Senior Analyst, Organics Department



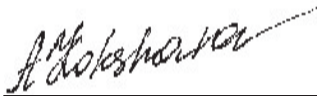
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Daniel Reslan, Volatiles Supervisor



---

Carol Gebhart, Senior Analyst



---

Anna Koksharova, Senior Analyst



## Validation Signature Page

**Maxxam Job #: B362533**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Michael Chae".

---

Michael Chae, Ph.D, Scientific Specialist

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





07(1039(3))

Chain of Custody

A134515

Page: 2 of 2

Company: **IEG Consultants Ltd.**  
 Contact: **Nicole Wills**  
 Address: **See page 1**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Contact #s: Ph: **403-827-3048** Cell: \_\_\_\_\_

Report To: **Same as Invoice**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Ph: \_\_\_\_\_ Cell: \_\_\_\_\_

Report Distribution (E-Mail):  
**nwills@kjohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #: \_\_\_\_\_  
 Project # / Name: **A04012A05**  
 Site Location: **Camp Farewell**  
 Quote #: \_\_\_\_\_  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve)  
 Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID | Depth (unit)          | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |     |                                  |                               |                                     | Other Analysis                         |                               |                            |                              |                              | HOLD - Do not Analyze | # of Containers Submitted |       |                               |           |         |                                |                                    |        |  |
|-----------|-----------------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|-----|----------------------------------|-------------------------------|-------------------------------------|--|-------------------------------|----------------------------|------------------------------|------------------------------|-----------------------|---------------------------|-------|-------------------------------|-----------|---------|--------------------------------|------------------------------------|--------|--|
|           |                       |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | PAH | <input type="checkbox"/> BTEX F1 | <input type="checkbox"/> VOCs | <input type="checkbox"/> BTEX F1-F4 | <input type="checkbox"/> Routine Water | <input type="checkbox"/> Turb | <input type="checkbox"/> F | <input type="checkbox"/> TOC | <input type="checkbox"/> DOC |                       |                           | Total | Regulated Metals (CCME / AT1) | Dissolved | Mercury | <input type="checkbox"/> Total | <input type="checkbox"/> Dissolved |        |  |
| 1         | Pile #1 Middle W side | Comp. Soil          | 13/07/19                         | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 2         | Pile #1 Middle E side | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 3         | Pile #2 E side S end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 8 Jars |  |
| 4         | Pile #3 E side N end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 5         | Pile #3 W side S end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 6         | Pile #3 W side N end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 7         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    | 4 Jars |  |
| 8         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 9         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 10        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 11        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 12        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |

Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print): **Nicole Wills Nicole Wills** Date (YY/MM/DD): **13/07/19** Time (24:00): **18:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_

LAB USE ONLY  
 Received By: **BO SU** Date: **20130722** Time: **10:14**  
 Maxxam Job #: **B362533**  
 Custody Seal: **B58** Temperature: **8, 6, 6** Ice: **Present**  
**Absent** **10, 9, 9**  
**6, 4, 4**

Special Instructions: **Please notify when samples are received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 Middle W side mixed before analysis, etc.)**  
 # of Jars Used & Not Submitted: \_\_\_\_\_ Page 40 of 40

**CONFIRMATION-RECEIPT OF SAMPLES FOR ANALYSIS****Maxxam Job # B362235**

Client Project #: A04012A05

4 Samples

Samples Received 2013/07/19

Client Confirmation 2013/07/23

**Expected Report Delivery 2013/07/26 18:00**

## Report will be sent to:

NICOLE WILLIS  
KLOHN CRIPPEN BERGER LTD  
HOPEWELL PLACE NE  
CALGARY  
T1Y 7J7  
Ph 403-274-3424  
Fax 403-274-5349  
[NWillis@klohn.com](mailto:NWillis@klohn.com)

## Invoice will be sent to:

Accounts Payable  
IEG CONSULTANTS LTD.  
500-2618 HOPEWELL PLACE NE  
CALGARY  
T1Y 7J7

**We have received the following samples:**

#2

COC# 1 OF 1

Matrix: WATER

---

Maxxam #: GY9632

Routine Water - Filtered  
Biochemical Oxygen Demand  
Chlorine (Free)  
Chlorine (Total)  
Environmental Sample Disposal Fee  
Filtration  
Oil and Grease by IR  
Total Suspended Solids (NFR)

#3

---

Maxxam #: GY9633

Routine Water - Filtered  
Biochemical Oxygen Demand  
Chlorine (Free)  
Chlorine (Total)  
Environmental Sample Disposal Fee  
Filtration  
Oil and Grease by IR  
Total Suspended Solids (NFR)

**MISC WITH BLANK LABELS**

---

Maxxam #: GY9634

Environmental Sample Disposal Fee  
Send Part to Archive

**MISC WITHOUT LABELS**

---

Maxxam #: GY9635

Environmental Sample Disposal Fee

Send Part to Archive

**Comments:**

- Unless special storage arrangements are made, all samples will be discarded 60 days after receipt of samples.
- Non-regular samples are flagged as (C) Composite by lab, (H) Hold, or (L) Leachate.
- If there are any problems with the submitted samples, a Sample Integrity Form (SIF) detailing conditions will be included in this confirmation.
- For revisions please contact your Maxxam Project Management team at Ph (780) 577-7100 or Fax (780) 450-4187.  
Your Project Manager is: Tanya Eugene



**Maxxam Job # B362235      PARAMETERS FOR ANALYSIS REQUESTED**

The values listed below are RDL's and not results. Report Detection Limit (RDL) may be elevated if there are matrix interferences or limited sample amounts.

Maxxam # GY9632, Sample IDN: #2

Maxxam # GY9633, Sample IDN: #3

---

|  |   |                                       |            |
|--|---|---------------------------------------|------------|
| <b>BIOCHEMICAL OXYGEN DEMAND</b>         | Test Location: Maxxam Calgary Environmental |                                       |            |
| Biochemical Oxygen Demand                | 2 mg/L                                      |                                       |            |
| <b>CHLORINE (FREE)</b>                   | Test Location: Maxxam Calgary Environmental |                                       |            |
| Chlorine                                 | 0.02 mg/L                                   |                                       |            |
| <b>CHLORINE (TOTAL)</b>                  | Test Location: Maxxam Calgary Environmental |                                       |            |
| Chlorine                                 | 0.02 mg/L                                   |                                       |            |
| <b>OIL AND GREASE BY IR</b>              | Test Location: Maxxam Calgary Environmental |                                       |            |
| Oil and grease                           | 2 mg/L                                      |                                       |            |
| <b>TOTAL SUSPENDED SOLIDS (NFR)</b>      | Test Location: Maxxam Calgary Environmental |                                       |            |
| Solids                                   | 1 mg/L                                      |                                       |            |
| <b>ROUTINE WATER - FILTERED</b>          | Test Location: Maxxam Calgary Environmental |                                       |            |
| Alkalinity (Total as CaCO <sub>3</sub> ) | 0.5 mg/L                                    | Alkalinity (PP as CaCO <sub>3</sub> ) | 0.5 mg/L   |
| Nitrate plus Nitrite (N)                 | 0.003 mg/L                                  | Nitrate (N)                           | 0.003 mg/L |
| Nitrate (NO <sub>3</sub> )               | 0.013 mg/L                                  | Nitrite (N)                           | 0.003 mg/L |
| Nitrite (NO <sub>2</sub> )               | 0.0099 mg/L                                 | pH                                    |            |
| Conductivity                             | 1 uS/cm                                     | Chloride (Cl)                         | 1 mg/L     |
| Total Dissolved Solids                   | 10 mg/L                                     | Sulphate (SO <sub>4</sub> )           | 1 mg/L     |
| Bicarbonate (HCO <sub>3</sub> )          | 0.5 mg/L                                    | Carbonate (CO <sub>3</sub> )          | 0.5 mg/L   |
| Hydroxide (OH)                           | 0.5 mg/L                                    | Anion Sum                             |            |
| Cation Sum                               |   | Ion Balance                           | 0.01 N/A   |
| Iron (Fe)                                | 0.06 mg/L                                   | Magnesium (Mg)                        | 0.2 mg/L   |
| Manganese (Mn)                           | 0.004 mg/L                                  | Potassium (K)                         | 0.3 mg/L   |
| Sodium (Na)                              | 0.5 mg/L                                    | Hardness (CaCO <sub>3</sub> )         | 0.5 mg/L   |
| Calcium (Ca)                             | 0.3 mg/L                                    |                                       |            |

## Fundamental Laboratory Acceptance Guideline

**Invoice To:**

IEG CONSULTANTS LTD.  
ATTN: Accounts Payable  
500-2618 HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7  
Client Contact:  
NICOLE WILLS

**Report To:**

KLOHN CRIPPEN BERGER LTD  
500-2618  
ATTN: NICOLE WILLS  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

Maxxam Job #: B362235  
Date Received: 2013/07/19  
Your C.O.C. #: 1 OF 1  
Your Project #: A04012A05  
Maxxam Project Manager: Tanya Eugene

- No Chain of Custody
- Bottles listed on Chain of Custody but not in shipment
- Labelling issue (missing/incorrect)
- Samples received after hold time exceeded
- Wrong bottles(s) used
- Incorrect preservation or headspace present

**Report Comments**

- 4. provided non maxxam coc (AGAT)
- 8. #1 listed on the COC but not received
- 11. 5x125 J with no sample IDs
- 9x 125 J with no labels or IDs
- 13. Samples received past recommended hold time. Analysis expired BOD,CL2,CL2T
- 14. provided water samples in soil jar containers
- 15. Incorrect preservation used for analysis requested. OGIR not preserved

**Received Date:** 2013/07/19 (Time): 8:50 By: JF9

**Inspected Date:** 2013/07/20 (Time): 16:21 By: JF9

**FLAG Created Date:** 2013/07/21 (Time): 10:56 By: HD0



# AGAT Laboratories

6310 Roper Road NW  
Edmonton, Alberta  
T6B 3P9  
web@agatlabs.com

## Chain of Custody Record

Ph: 780.395.2525 • Fax: 780.462.2490

### Report To:

Company: IEG Consultants Ltd.  
Contact: Nicole Wills  
Address: 2618 Hopewell Place NE  
Calgary, AB Postal Code: T1Y 7J7  
Phone: 403.829.3048 Fax: \_\_\_\_\_  
LSD: Camp Farewell  
Client Project #: A04012A05

### Report Information

1. Name: nwills@kohn.com  
Email: Nicole Wills  
2. Name: \_\_\_\_\_  
Email: \_\_\_\_\_

### Report Format

Single Sample per page  
 Multiple Samples per page  
 Excel Format Included

### Rush Turnaround Requests

Upon filling out this section, client accepts that surcharges will be attached to this analysis. If NOT completed, regular TAT will be default.

- Less than 24 hours (200%)  
 24 to 48 hours (100%)  
 48 to 72 hours (50%)

Date Required: \_\_\_\_\_  
Please contact laboratory to notify

### Laboratory Use Only

Date and Time: \_\_\_\_\_  
Arrival Temperature: \_\_\_\_\_  
AGAT Job Number: \_\_\_\_\_

### Invoice To: Same (Y) (N) - Circle

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Postal code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE #: \_\_\_\_\_

### Regulatory Requirements (Check one):

- CCME  AB Tier 1
- Agricultural  Natural Area  
 Residential/Park  Agricultural  
 Commercial  Residential/Park  
 Industrial  Commercial  
 Drinking Water  Industrial  
 FWAL
- Other  
 D50 (Drilling)  SPIGEC

| Laboratory Use (Lab ID #)   | Sample Identification | Sample Matrix                 | Date/Time Sampled  | Comments - Site/Sample Info. Sample Containment | Number of Containers   | Detailed Soil Salinity (Sat. Paste) | CCME BTEX/F1-F4 | Metals <input type="checkbox"/> HWS-B, Cr6 & Hg | Routine Water Potability | Metals <input type="checkbox"/> Diss <input type="checkbox"/> Total <input type="checkbox"/> Hg | AB Class 2 Landfill | Microtox | D50 Detailed Soil Salinity (As received) | Residual Chlorine | Total Chlorine | BOD5 | Oil and Grease | Total Suspended Solids | Hold for | Contaminated/Hazardous (Y/N) |
|---|-----------------------|-------------------------------|--|---|--|-------------------------------------|-----------------|---|--------------------------|---|---------------------|----------|--|-------------------|----------------|------|----------------|------------------------|----------|------------------------------|
|   | #1                    | Water                         | 07-13-13   |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   | #2                    | ↓                             |  |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   | #3                    |                               |  |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  | 20-Jul-13 15:59                                 |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  |   | RECEIVED IN YELLOWKNIFE<br>By: <u>Chiquita</u><br>2013-07-19 08:50 |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  |   | Temp: <u>3.3/2</u>   |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):<br><u>Nicole Wills</u> |                       | Date/Time:<br><u>07-18-13</u> | Samples Received by (Print name & sign):<br><u>Hellen Jenelle Peller</u> |   | Date/Time:<br><u>2013/07/12</u>                                    | Pink Copy - Client                  |                 | Page <u>1</u> of <u>1</u>                       |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                        |                       | Date/Time:                    | Samples Received by (Print name & sign):                                 |   | Date/Time:<br><u>15:59</u>   | Yellow Copy - AGAT                  |                 | NO: <u>052646</u>                               |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                        |                       | Date/Time:                    | Samples Received by (Print name & sign):                                 |   | Date/Time:   | White Copy - AGAT                   |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |

1cc-yes

6.7.6

07-823

Your Project #: A04012A05  
 Your C.O.C. #: 1 OF 1

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362235**  
**Received: 2013/07/19, 8:50**

Sample Matrix: Water  
 # Samples Received: 2

| Analyses                         | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method   |
|----------------------------------|----------|-------------------|------------------|-------------------|---------------------|
| Biochemical Oxygen Demand (1)    | 2        | 2013/07/21        | 2013/07/26       | AB SOP-00017      | SM 5210 B           |
| Chlorine (Free) (1)              | 2        | N/A               | 2013/07/22       | AB SOP-00032      | SM Method 4500-CI G |
| Chlorine (Total) (1)             | 2        | N/A               | 2013/07/22       | AB SOP-00032      | SM Method 4500-CI G |
| Oil and Grease by IR (1)         | 2        | 2013/07/24        | 2013/07/25       | CAL SOP-00096     | SM 5520C            |
| Total Suspended Solids (NFR) (1) | 2        | 2013/07/25        | 2013/07/25       | AB SOP-00061      | SM 2540-D           |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Calgary Environmental

Encryption Key



Tanya Eugene

26 Jul 2013 17:58:20 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugine@maxxam.ca  
 Phone# (780) 577-7144

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B362235  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05

**RESULTS OF CHEMICAL ANALYSES OF WATER**

|               |              |           |           |            |                 |
|---------------|--------------|-----------|-----------|------------|-----------------|
| Maxxam ID     |              | GY9632    | GY9633    |            |                 |
| Sampling Date |              |           |           |            |                 |
| COC Number    |              | 1 OF 1    | 1 OF 1    |            |                 |
|               | <b>UNITS</b> | <b>#2</b> | <b>#3</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Demand Parameters</b>  |      |           |           |       |         |
|---------------------------|------|-----------|-----------|-------|---------|
| Biochemical Oxygen Demand | mg/L | <5.0 (1)  | <5.0 (2)  | 5.0   | 7006665 |
| <b>Misc. Inorganics</b>   |      |           |           |       |         |
| Free Chlorine             | mg/L | 0.050 (3) | 0.020 (3) | 0.020 | 7009264 |
| Total Chlorine            | mg/L | 0.060 (3) | 0.020 (3) | 0.020 | 7009265 |
| Total Suspended Solids    | mg/L | 8.0 (4)   | 8.0 (4)   | 1.5   | 7019938 |
| <b>Misc. Organics</b>     |      |           |           |       |         |
| Oil and grease            | mg/L | <20 (5)   | <20 (5)   | 20    | 7007935 |

RDL = Reportable Detection Limit

( 1 ) Detection limits raised due to insufficient sample volume. Sample analyzed 194.5 hrs. after sample collection. Sample analysis is recommended within 48 hrs. of sampling to obtain the most probable number.

( 2 ) Detection limit raised based on sample volume used for analysis. Sample analyzed 194.5 hrs. after sample collection. Sample analysis is recommended within 48 hrs. of sampling to obtain the most probable number.

( 3 ) Sample received past method-specified hold time.

( 4 ) Detection limits raised due to insufficient sample volume.

( 5 ) Detection limit raised based on sample volume used for analysis.

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B362235  
Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05

|           |       |
|-----------|-------|
| Package 1 | 6.3°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

Maxxam Analytics - Partial/Rush Results



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location:

Quality Assurance Report  
 Maxxam Job Number: CB362235

| QA/QC Batch | QC Type                  | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------------------|---------------------------|-----------------------------|--------|----------|-------|-----------|
| 7006665 LH8 | Spiked Blank             | Biochemical Oxygen Demand | 2013/07/26                  |        | 93       | %     | 85 - 115  |
|             | Method Blank             | Biochemical Oxygen Demand | 2013/07/26                  | <2.0   |          | mg/L  |           |
|             | RPD [GY9632-01]          | Biochemical Oxygen Demand | 2013/07/26                  | NC     |          | %     | 20        |
| 7007935 ABG | Spiked Blank             | Oil and grease            | 2013/07/25                  |        | 106      | %     | 70 - 130  |
|             | Method Blank             | Oil and grease            | 2013/07/25                  | <2.0   |          | mg/L  |           |
| 7009264 LS0 | Matrix Spike [GY9632-01] | Free Chlorine             | 2013/07/22                  |        | 85       | %     | 80 - 120  |
|             | Spiked Blank             | Free Chlorine             | 2013/07/22                  |        | 90       | %     | 80 - 120  |
|             | Method Blank             | Free Chlorine             | 2013/07/22                  | <0.020 |          | mg/L  |           |
|             | RPD [GY9632-01]          | Free Chlorine             | 2013/07/22                  | NC     |          | %     | 20        |
| 7009265 LS0 | Matrix Spike             | Total Chlorine            | 2013/07/22                  |        | 81       | %     | 80 - 120  |
|             | Spiked Blank             | Total Chlorine            | 2013/07/22                  |        | 96       | %     | 80 - 120  |
|             | Method Blank             | Total Chlorine            | 2013/07/22                  | <0.020 |          | mg/L  |           |
|             | RPD                      | Total Chlorine            | 2013/07/22                  | NC     |          | %     | 20        |
| 7019938 KKV | Matrix Spike             | Total Suspended Solids    | 2013/07/25                  |        | 93       | %     | 80 - 120  |
|             | Spiked Blank             | Total Suspended Solids    | 2013/07/25                  |        | 96       | %     | 80 - 120  |
|             | Method Blank             | Total Suspended Solids    | 2013/07/25                  | <1.0   |          | mg/L  |           |
|             | RPD                      | Total Suspended Solids    | 2013/07/25                  | 9.0    |          | %     | 20        |

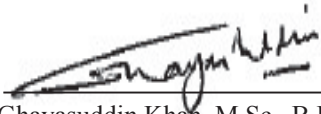
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page


Maxxam Job #: B362235

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ghayasuddin Khan, M.Sc., B.Ed., P.Chem, Scientific Specialist



Janet Gao, Senior Analyst, Organics Department

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics - Partial/Rush Results



# AGAT Laboratories

6310 Roper Road NW  
Edmonton, Alberta  
T6B 3P9  
web@agatlabs.com

## Chain of Custody Record

Ph: 780.395.2525 • Fax: 780.462.2490

### Report To:

Company: IEG Consultants Ltd.  
Contact: Nicole Wills  
Address: 2618 Hopewell Place NE  
Calgary, AB Postal Code: T1Y 7J7  
Phone: 403.829.3048 Fax: \_\_\_\_\_  
LSD: Camp Farewell  
Client Project #: A04012A05

### Report Information

1. Name: nwills@kohn.com  
Email: Nicole Wills  
2. Name: \_\_\_\_\_  
Email: \_\_\_\_\_

### Report Format

Single Sample per page  
 Multiple Samples per page  
 Excel Format Included

### Rush Turnaround Requests

Upon filling out this section, client accepts that surcharges will be attached to this analysis. If NOT completed, regular TAT will be default.

- Less than 24 hours (200%)  
 24 to 48 hours (100%)  
 48 to 72 hours (50%)

Date Required: \_\_\_\_\_  
Please contact laboratory to notify

### Laboratory Use Only

Date and Time: \_\_\_\_\_  
Arrival Temperature: \_\_\_\_\_  
AGAT Job Number: \_\_\_\_\_

### Invoice To: Same (Y) (N) - Circle

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Postal code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE #: \_\_\_\_\_

### Regulatory Requirements (Check one):

- CCME  AB Tier 1
- Agricultural  Natural Area  
 Residential/Park  Agricultural  
 Commercial  Residential/Park  
 Industrial  Commercial  
 Drinking Water  Industrial  
 FWAL
- Other  
 D50 (Drilling)  SPIGEC

| Laboratory Use (Lab ID #)   | Sample Identification | Sample Matrix                 | Date/Time Sampled  | Comments - Site/Sample Info. Sample Containment | Number of Containers   | Detailed Soil Salinity (Sat. Paste) | CCME BTEX/F1-F4 | Metals <input type="checkbox"/> HWS-B, Cr6 & Hg | Routine Water Potability | Metals <input type="checkbox"/> Diss <input type="checkbox"/> Total <input type="checkbox"/> Hg | AB Class 2 Landfill | Microtox | D50 Detailed Soil Salinity (As received) | Residual Chlorine | Total Chlorine | BOD5 | Oil and Grease | Total Suspended Solids | Hold for | Contaminated/Hazardous (Y/N) |
|---|-----------------------|-------------------------------|--|---|--|-------------------------------------|-----------------|---|--------------------------|---|---------------------|----------|--|-------------------|----------------|------|----------------|------------------------|----------|------------------------------|
|   | #1                    | Water                         | 07-13-13   |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   | #2                    | ↓                             |  |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   | #3                    | ↓                             |  |   |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  | 20-Jul-13 15:59                                 |  |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  |   | RECEIVED IN YELLOWKNIFE<br>By: <u>Chiquita</u><br>2013-07-19 08:50 |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
|   |                       |                               |  |   | Temp: <u>3.3/2</u>   |                                     |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):<br><u>Nicole Wills</u> |                       | Date/Time:<br><u>07-18-13</u> | Samples Received by (Print name & sign):<br><u>Hellen Jenelle Peller</u> |   | Date/Time:<br><u>2013/07/12</u>                                    | Pink Copy - Client                  |                 | Page <u>1</u> of <u>1</u>                       |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                        |                       | Date/Time:                    | Samples Received by (Print name & sign):                                 |   | Date/Time:<br><u>15:59</u>   | Yellow Copy - AGAT                  |                 | NO: <u>052646</u>                               |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                        |                       | Date/Time:                    | Samples Received by (Print name & sign):                                 |   | Date/Time:   | White Copy - AGAT                   |                 |   |                          |   |                     |          |  |                   |                |      |                |                        |          |                              |

1cc-yes

6.7.6

07-823

Your Project #: A04012A05  
 Your C.O.C. #: 1 OF 1

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/26**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362235**  
**Received: 2013/07/19, 8:50**

Sample Matrix: Water  
 # Samples Received: 2

| Analyses                                 | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method   |
|--|----------|-------------------|------------------|-------------------|---------------------|
| Alkalinity @25C (pp, total), CO3,HCO3,OH | 2        | N/A               | 2013/07/22       | AB SOP-00005      | SM 2320-B           |
| Biochemical Oxygen Demand                | 2        | 2013/07/21        | 2013/07/26       | AB SOP-00017      | SM 5210 B           |
| Chlorine (Free)                          | 2        | N/A               | 2013/07/22       | AB SOP-00032      | SM Method 4500-Cl G |
| Chlorine (Total)                         | 2        | N/A               | 2013/07/22       | AB SOP-00032      | SM Method 4500-Cl G |
| Chloride by Automated Colourimetry       | 2        | N/A               | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL- E     |
| Conductivity @25C                        | 2        | N/A               | 2013/07/22       | AB SOP-00005      | SM 2510-B           |
| Hardness                                 | 2        | N/A               | 2013/07/26       | AB WI-00065       | SM 2340B            |
| Elements by ICP (Dissolved) Lab Filtered | 2        | N/A               | 2013/07/25       | AB SOP-00042      | EPA 200.7           |
| Ion Balance                              | 2        | N/A               | 2013/07/23       | AB WI-00065       | SM 1030E            |
| Sum of cations, anions                   | 2        | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E            |
| Nitrate and Nitrite                      | 2        | N/A               | 2013/07/24       | AB SOP-00023      | SM4110B             |
| Nitrate + Nitrite-N (calculated)         | 2        | N/A               | 2013/07/24       | AB SOP-00023      | SM 4110-B           |
| Nitrogen, (Nitrite, Nitrate) by IC       | 2        | N/A               | 2013/07/25       | AB SOP-00023      | SM 4110-B           |
| Oil and Grease by IR                     | 2        | 2013/07/24        | 2013/07/25       | CAL SOP-00096     | SM 5520C            |
| pH @25°C (Alkalinity titrator)           | 2        | N/A               | 2013/07/22       | AB SOP-00005      | SM 4500-H+B         |
| Sulphate by Automated Colourimetry       | 2        | N/A               | 2013/07/26       | AB SOP-00018      | EPA 375.4           |
| Total Dissolved Solids (Calculated)      | 2        | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E            |
| Total Suspended Solids (NFR)             | 2        | 2013/07/25        | 2013/07/25       | AB SOP-00061      | SM 2540-D           |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Tanya Eugene

27 Jul 2013 15:50:34 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugine@maxxam.ca  
 Phone# (780) 577-7144

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1



Maxxam Job #: B362235  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05

**ROUTINE WATER - FILTERED (WATER)**

|               |              |           |           |            |                 |
|---------------|--------------|-----------|-----------|------------|-----------------|
| Maxxam ID     |              | GY9632    | GY9633    |            |                 |
| Sampling Date |              |           |           |            |                 |
| COC Number    |              | 1 OF 1    | 1 OF 1    |            |                 |
|               | <b>UNITS</b> | <b>#2</b> | <b>#3</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b> |       |         |         |        |         |
|------------------------------|-------|---------|---------|--------|---------|
| Anion Sum                    | meq/L | 5.4     | 5.4     | N/A    | 7006281 |
| Cation Sum                   | meq/L | 5.7     | 5.7     | N/A    | 7006281 |
| Hardness (CaCO3)             | mg/L  | 220     | 220     | 0.50   | 7006279 |
| Ion Balance                  | N/A   | 1.1     | 1.1     | 0.010  | 7006280 |
| Dissolved Nitrate (NO3)      | mg/L  | 0.020   | 0.015   | 0.013  | 7006282 |
| Nitrate plus Nitrite (N)     | mg/L  | 0.0090  | 0.0070  | 0.0030 | 7006283 |
| Dissolved Nitrite (NO2)      | mg/L  | 0.014   | 0.010   | 0.0099 | 7006282 |
| Total Dissolved Solids       | mg/L  | 290     | 290     | 10     | 7006285 |
| <b>Misc. Inorganics</b>      |       |         |         |        |         |
| Conductivity                 | uS/cm | 550     | 550     | 1.0    | 7008155 |
| pH                           | N/A   | 8.09    | 8.10    | N/A    | 7008157 |
| <b>Anions</b>                |       |         |         |        |         |
| Alkalinity (PP as CaCO3)     | mg/L  | <0.50   | <0.50   | 0.50   | 7008149 |
| Alkalinity (Total as CaCO3)  | mg/L  | 170     | 170     | 0.50   | 7008149 |
| Bicarbonate (HCO3)           | mg/L  | 200     | 210     | 0.50   | 7008149 |
| Carbonate (CO3)              | mg/L  | <0.50   | <0.50   | 0.50   | 7008149 |
| Hydroxide (OH)               | mg/L  | <0.50   | <0.50   | 0.50   | 7008149 |
| Dissolved Sulphate (SO4)     | mg/L  | 43 (1)  | 43 (1)  | 2.0    | 7027178 |
| Dissolved Chloride (Cl)      | mg/L  | 42      | 42      | 1.0    | 7027176 |
| <b>Nutrients</b>             |       |         |         |        |         |
| Dissolved Nitrite (N)        | mg/L  | 0.0043  | 0.0030  | 0.0030 | 7012681 |
| Dissolved Nitrate (N)        | mg/L  | 0.0045  | 0.0035  | 0.0030 | 7012681 |
| <b>Elements</b>              |       |         |         |        |         |
| Dissolved Calcium (Ca)       | mg/L  | 57      | 57      | 0.30   | 7020126 |
| Dissolved Iron (Fe)          | mg/L  | <0.060  | <0.060  | 0.060  | 7020126 |
| Dissolved Magnesium (Mg)     | mg/L  | 20      | 20      | 0.20   | 7020126 |
| Dissolved Manganese (Mn)     | mg/L  | <0.0040 | <0.0040 | 0.0040 | 7020126 |
| Dissolved Potassium (K)      | mg/L  | 2.4     | 2.5     | 0.30   | 7020126 |
| Dissolved Sodium (Na)        | mg/L  | 27      | 27      | 0.50   | 7020126 |

RDL = Reportable Detection Limit  
 ( 1 ) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Job #: B362235  
 Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05

### RESULTS OF CHEMICAL ANALYSES OF WATER

|               |              |           |                   |           |            |                 |
|---------------|--------------|-----------|-------------------|-----------|------------|-----------------|
| Maxxam ID     |              | GY9632    | GY9632            | GY9633    |            |                 |
| Sampling Date |              |           |                   |           |            |                 |
| COC Number    |              | 1 OF 1    | 1 OF 1            | 1 OF 1    |            |                 |
|               | <b>UNITS</b> | <b>#2</b> | <b>#2 Lab-Dup</b> | <b>#3</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Demand Parameters</b>  |      |           |       |           |       |         |
|---------------------------|------|-----------|-------|-----------|-------|---------|
| Biochemical Oxygen Demand | mg/L | <5.0 (1)  | <5.0  | <5.0 (2)  | 5.0   | 7006665 |
| <b>Misc. Inorganics</b>   |      |           |       |           |       |         |
| Free Chlorine             | mg/L | 0.050 (3) | 0.040 | 0.020 (3) | 0.020 | 7009264 |
| Total Chlorine            | mg/L | 0.060 (3) | N/A   | 0.020 (3) | 0.020 | 7009265 |
| Total Suspended Solids    | mg/L | 8.0 (4)   | N/A   | 8.0 (4)   | 1.5   | 7019938 |
| <b>Misc. Organics</b>     |      |           |       |           |       |         |
| Oil and grease            | mg/L | <20 (5)   | N/A   | <20 (5)   | 20    | 7007935 |

N/A = Not Applicable

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

( 1 ) Detection limits raised due to insufficient sample volume. Sample analyzed 194.5 hrs. after sample collection. Sample analysis is recommended within 48 hrs. of sampling to obtain the most probable number.

( 2 ) Detection limit raised based on sample volume used for analysis. Sample analyzed 194.5 hrs. after sample collection. Sample analysis is recommended within 48 hrs. of sampling to obtain the most probable number.

( 3 ) Sample received past method-specified hold time.

( 4 ) Detection limits raised due to insufficient sample volume.

( 5 ) Detection limit raised based on sample volume used for analysis.



Maxxam Job #: B362235  
Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05

|           |       |
|-----------|-------|
| Package 1 | 6.3°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location:

Quality Assurance Report  
 Maxxam Job Number: CB362235

| QA/QC Batch | QC Type                  | Parameter                   | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|--------------------------|-----------------------------|-----------------------------|---------|----------|-------|-----------|
| 7006665 LH8 | Spiked Blank             | Biochemical Oxygen Demand   | 2013/07/26                  |         | 93       | %     | 85 - 115  |
|             | Method Blank             | Biochemical Oxygen Demand   | 2013/07/26                  | <2.0    |          | mg/L  |           |
|             | RPD [GY9632-01]          | Biochemical Oxygen Demand   | 2013/07/26                  | NC      |          | %     | 20        |
| 7007935 ABG | Spiked Blank             | Oil and grease              | 2013/07/25                  |         | 106      | %     | 70 - 130  |
|             | Method Blank             | Oil and grease              | 2013/07/25                  | <2.0    |          | mg/L  |           |
| 7008149 FT2 | Spiked Blank             | Alkalinity (Total as CaCO3) | 2013/07/22                  |         | 95       | %     | 80 - 120  |
|             | Method Blank             | Alkalinity (PP as CaCO3)    | 2013/07/22                  | <0.50   |          | mg/L  |           |
|             |                          | Alkalinity (Total as CaCO3) | 2013/07/22                  | <0.50   |          | mg/L  |           |
|             |                          | Bicarbonate (HCO3)          | 2013/07/22                  | <0.50   |          | mg/L  |           |
|             |                          | Carbonate (CO3)             | 2013/07/22                  | <0.50   |          | mg/L  |           |
|             |                          | Hydroxide (OH)              | 2013/07/22                  | <0.50   |          | mg/L  |           |
|             | RPD                      | Alkalinity (PP as CaCO3)    | 2013/07/22                  | NC      |          | %     | 20        |
|             |                          | Alkalinity (Total as CaCO3) | 2013/07/22                  | 0.07    |          | %     | 20        |
|             |                          | Bicarbonate (HCO3)          | 2013/07/22                  | 0.06    |          | %     | 20        |
|             |                          | Carbonate (CO3)             | 2013/07/22                  | NC      |          | %     | 20        |
|             |                          | Hydroxide (OH)              | 2013/07/22                  | NC      |          | %     | 20        |
| 7008155 FT2 | Spiked Blank             | Conductivity                | 2013/07/22                  |         | 100      | %     | 90 - 110  |
|             | Method Blank             | Conductivity                | 2013/07/22                  | <1.0    |          | uS/cm |           |
|             | RPD                      | Conductivity                | 2013/07/22                  | 0.5     |          | %     | 20        |
| 7008157 FT2 | Spiked Blank             | pH                          | 2013/07/22                  |         | 100      | %     | 97 - 102  |
|             | RPD                      | pH                          | 2013/07/22                  | 0.7     |          | %     | 5         |
| 7009264 LS0 | Matrix Spike [GY9632-01] | Free Chlorine               | 2013/07/22                  |         | 85       | %     | 80 - 120  |
|             | Spiked Blank             | Free Chlorine               | 2013/07/22                  |         | 90       | %     | 80 - 120  |
|             | Method Blank             | Free Chlorine               | 2013/07/22                  | <0.020  |          | mg/L  |           |
|             | RPD [GY9632-01]          | Free Chlorine               | 2013/07/22                  | NC      |          | %     | 20        |
| 7009265 LS0 | Matrix Spike             | Total Chlorine              | 2013/07/22                  |         | 81       | %     | 80 - 120  |
|             | Spiked Blank             | Total Chlorine              | 2013/07/22                  |         | 96       | %     | 80 - 120  |
|             | Method Blank             | Total Chlorine              | 2013/07/22                  | <0.020  |          | mg/L  |           |
|             | RPD                      | Total Chlorine              | 2013/07/22                  | NC      |          | %     | 20        |
| 7012681 DA4 | Matrix Spike             | Dissolved Nitrite (N)       | 2013/07/24                  |         | 102      | %     | 80 - 120  |
|             |                          | Dissolved Nitrate (N)       | 2013/07/24                  |         | 102      | %     | 80 - 120  |
|             | Spiked Blank             | Dissolved Nitrite (N)       | 2013/07/24                  |         | 101      | %     | 90 - 110  |
|             |                          | Dissolved Nitrate (N)       | 2013/07/24                  |         | 101      | %     | 90 - 110  |
|             | Method Blank             | Dissolved Nitrite (N)       | 2013/07/24                  | <0.0030 |          | mg/L  |           |
|             |                          | Dissolved Nitrate (N)       | 2013/07/24                  | <0.0030 |          | mg/L  |           |
|             | RPD                      | Dissolved Nitrite (N)       | 2013/07/23                  | 1.9     |          | %     | 20        |
|             |                          | Dissolved Nitrate (N)       | 2013/07/23                  | 18.6    |          | %     | 20        |
| 7019938 KKV | Matrix Spike             | Total Suspended Solids      | 2013/07/25                  |         | 93       | %     | 80 - 120  |
|             | Spiked Blank             | Total Suspended Solids      | 2013/07/25                  |         | 96       | %     | 80 - 120  |
|             | Method Blank             | Total Suspended Solids      | 2013/07/25                  | <1.0    |          | mg/L  |           |
|             | RPD                      | Total Suspended Solids      | 2013/07/25                  | 9.0     |          | %     | 20        |
| 7020126 STI | Matrix Spike             | Dissolved Calcium (Ca)      | 2013/07/25                  |         | NC       | %     | 80 - 120  |
|             |                          | Dissolved Iron (Fe)         | 2013/07/25                  |         | 95       | %     | 80 - 120  |
|             |                          | Dissolved Magnesium (Mg)    | 2013/07/25                  |         | 93       | %     | 80 - 120  |
|             |                          | Dissolved Manganese (Mn)    | 2013/07/25                  |         | 94       | %     | 80 - 120  |
|             |                          | Dissolved Potassium (K)     | 2013/07/25                  |         | 96       | %     | 80 - 120  |
|             |                          | Dissolved Sodium (Na)       | 2013/07/25                  |         | 92       | %     | 80 - 120  |
|             | Spiked Blank             | Dissolved Calcium (Ca)      | 2013/07/25                  |         | 96       | %     | 80 - 120  |
|             |                          | Dissolved Iron (Fe)         | 2013/07/25                  |         | 96       | %     | 80 - 120  |
|             |                          | Dissolved Magnesium (Mg)    | 2013/07/25                  |         | 95       | %     | 80 - 120  |
|             |                          | Dissolved Manganese (Mn)    | 2013/07/25                  |         | 95       | %     | 80 - 120  |
|             |                          | Dissolved Potassium (K)     | 2013/07/25                  |         | 95       | %     | 80 - 120  |
|             |                          | Dissolved Sodium (Na)       | 2013/07/25                  |         | 92       | %     | 80 - 120  |
|             | Method Blank             | Dissolved Calcium (Ca)      | 2013/07/26                  | <0.30   |          | mg/L  |           |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location:

## Quality Assurance Report (Continued)

Maxxam Job Number: CB362235

| QA/QC Batch | QC Type      | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|--------------|--------------------------|-----------------------------|---------|----------|-------|-----------|
| 7020126 STI | Method Blank | Dissolved Iron (Fe)      | 2013/07/26                  | <0.060  |          | mg/L  |           |
|             |              | Dissolved Magnesium (Mg) | 2013/07/26                  | <0.20   |          | mg/L  |           |
|             |              | Dissolved Manganese (Mn) | 2013/07/26                  | <0.0040 |          | mg/L  |           |
|             |              | Dissolved Potassium (K)  | 2013/07/26                  | <0.30   |          | mg/L  |           |
|             | RPD          | Dissolved Sodium (Na)    | 2013/07/26                  | <0.50   |          | mg/L  |           |
|             |              | Dissolved Calcium (Ca)   | 2013/07/25                  | 0.4     |          | %     | 20        |
|             |              | Dissolved Iron (Fe)      | 2013/07/25                  | NC      |          | %     | 20        |
|             |              | Dissolved Magnesium (Mg) | 2013/07/25                  | 0.07    |          | %     | 20        |
|             |              | Dissolved Manganese (Mn) | 2013/07/25                  | NC      |          | %     | 20        |
|             |              | Dissolved Potassium (K)  | 2013/07/25                  | 1.4     |          | %     | 20        |
| 7027176 ZI  | Matrix Spike | Dissolved Sodium (Na)    | 2013/07/25                  | 0.4     |          | %     | 20        |
|             | Spiked Blank | Dissolved Chloride (Cl)  | 2013/07/26                  |         | NC       | %     | 80 - 120  |
|             | Method Blank | Dissolved Chloride (Cl)  | 2013/07/26                  | <1.0    | 104      | %     | 80 - 120  |
|             | RPD          | Dissolved Chloride (Cl)  | 2013/07/26                  | 1.2     |          | %     | 20        |
| 7027178 ZI  | Matrix Spike | Dissolved Sulphate (SO4) | 2013/07/26                  |         | NC       | %     | 80 - 120  |
|             | Spiked Blank | Dissolved Sulphate (SO4) | 2013/07/26                  |         | 100      | %     | 80 - 120  |
|             | Method Blank | Dissolved Sulphate (SO4) | 2013/07/26                  | <1.0    |          | mg/L  |           |
|             | RPD          | Dissolved Sulphate (SO4) | 2013/07/26                  | 1.1     |          | %     | 20        |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

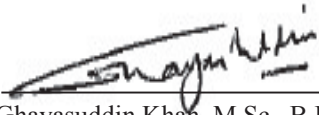
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362235

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Ghayasuddin Khan, M.Sc., B.Ed., P.Chem, Scientific Specialist



Jason Buxton, Supervisor



Janet Gao, Senior Analyst, Organics Department

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





# AGAT Laboratories

6310 Roper Road NW  
Edmonton, Alberta  
T6B 3P9  
webearth.agatlabs.com

### Rush Turnaround Requests

Upon filling out this section, client accepts that surcharges will be attached to this analysis. If NOT completed, regular TAT will be default.

- Less than 24 hours (200%)
- 24 to 48 hours (100%)
- 48 to 72 hours (50%)

## Chain of Custody Record

Ph: 780.395.2525 • Fax: 780.462.2490

### Report To:

Company: IEG Consultants Ltd.  
Contact: Nicole Wills  
Address: 2618 Hopewell Place NE  
Calgary, AB Postal Code: T1Y 7J7  
Phone: 403.829.3048 Fax: \_\_\_\_\_  
LSD: Camp Farewell  
Client Project #: A04012A05

### Report Information

1. Name: nwills@kohn.com  
Email: Nicole Wills  
2. Name: \_\_\_\_\_  
Email: \_\_\_\_\_

### Report Format

- Single Sample per page
- Multiple Samples per page
- Excel Format Included

Date Required: \_\_\_\_\_  
Please contact laboratory to notify

### Laboratory Use Only

Date and Time: \_\_\_\_\_  
Arrival Temperature: \_\_\_\_\_  
AGAT Job Number: \_\_\_\_\_

### Invoice To: Same (Y) N - Circle

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Postal code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE #: \_\_\_\_\_

### Regulatory Requirements (Check one):

- CCME  AB Tier 1
- Agricultural  Natural Area
- Residential/Park  Agricultural
- Commercial  Residential/Park
- Industrial  Commercial
- Drinking Water  Industrial
- FWAL
- Other
- D50 (Drilling)  SPIGEX

| Laboratory Use (Lab ID #)  | Sample Identification | Sample Matrix | Date/Time Sampled          | Comments - Site/Sample Info. Sample Containment                       | Number of Containers | Detailed Soil Salinity (Sat. Paste) | CCME BTEX/F1-F4              | Metals <input type="checkbox"/> HWS-B, Cr6 & Hg | Routine Water Potability | Metals <input type="checkbox"/> Diss <input type="checkbox"/> Total <input type="checkbox"/> Hg | AB Class 2 Landfill       | Microtox | D50 Detailed Soil Salinity (As received) | Residual chlorine | Total chlorine | BOD5 | oil and grease | Total suspended Solids | Hold for | Contaminated/Hazardous (Y/N) |
|--|-----------------------|---------------|----------------------------|---|----------------------|-------------------------------------|------------------------------|---|--------------------------|---|---------------------------|----------|--|-------------------|----------------|------|----------------|------------------------|----------|------------------------------|
|  | #1                    | Water         | 07-13-13                   |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  | #2                    | ↓             |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  | #3                    |               |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  |                       |               | 20-Jul-13 15:59            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  |                       |               |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  |                       |               |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  |                       |               |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
|  |                       |               |                            |   |                      |                                     |                              |   |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign): <u>Nicole Wills</u> |                       |               | Date/Time: <u>07-18-13</u> | Samples Received by (Print name & sign): <u>Ashley Jenelle Feller</u> |                      |                                     | Date/Time: <u>2013/07/20</u> | Pink Copy - Client                              |                          |   | Page <u>1</u> of <u>1</u> |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                     |                       |               | Date/Time:                 | Samples Received by (Print name & sign):                              |                      |                                     | Date/Time: <u>15:59</u>      | Yellow Copy - AGAT                              |                          |   | NO: <u>052646</u>         |          |  |                   |                |      |                |                        |          |                              |
| Samples Relinquished by (print name & sign):                     |                       |               | Date/Time:                 | Samples Received by (Print name & sign):                              |                      |                                     | Date/Time:                   | White Copy - AGAT                               |                          |   |                           |          |  |                   |                |      |                |                        |          |                              |

RECEIVED IN YELLOWKNIFE

By: Chiquita

2013-07-19

08:50

Temp: 3.3/2

ice-yes

6.7.6

07-823



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**Jenelle Feller**

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**From:** Tanya Eugine  
**Sent:** Saturday, July 20, 2013 4:53 PM  
**To:** Jenelle Feller; Calgary Environmental Login  
**Cc:** Parminder Virk  
**Subject:** RE: IEG Job received 07/20 @ 15:59 from Jazoo - B362235

Hi Jenelle,

We were expecting these samples in Edmonton originally. Thanks for the detailed email.

Client had advised to proceed with following tests, regardless of the hold time and inappropriate containers, and is aware that they used an AGAT COC instead of ours:  
Routine, Free Chlorine, Total chlorine, BOD, OGIR, and TSS.

We will be proceeding with testing on samples #2 and #3 as they were the only ones that were properly labeled. The rest can be assigned as Misc with/without labels as per your email.

These would be for regular TAT.

Thanks,  
Tanya

**TANYA EUGINE, M.Sc**  
Environmental Project Manager  
Office 780 577 7144/ Fax 780 450 4187

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**Maxxam Analytics** - Success Through Science®  
[maxxam.ca](http://maxxam.ca)

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**From:** Jenelle Feller  
**Sent:** Saturday, July 20, 2013 4:41 PM  
**To:** Tanya Eugine; Calgary Environmental Login  
**Cc:** Parminder Virk  
**Subject:** IEG Job received 07/20 @ 15:59 from Jazoo - B362235

Hello Tanya,

I just received an IEG CONSULTANTS LTD job from the jazoo run this afternoon and we need some major clarification before we proceed. On the bottle sheet you noted that the submission was water samples in soil jars with lots of water in the bottle of the cooler. However after closer inspection I found that almost half the jars were either not labelled with the client Ids or did not have a label even present. I have inspected this job to the best of my ability under the job number B362235.

The main issues are:

We received 5 jars labelled #2 and #3, however no jars were labelled #1.

We received 5 jars that have maxxam labels on them but nothing is written on the label besides the sampling date (13-July-13). These were inspected as MISC WITH BLANK LABELS.

We received 9 jars that have no labels and absolutely nothing written on them whatsoever. These were inspected as MISC WITHOUT LABELS.

There is no TAT marked on the COC. The COC is also an AGAT COC.

The client has asked for Residual and Total Chlorine as well as BOD which are all immediates that are way past there hold times as the COC states that the samples were taken on July 13th 2013.





Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/31**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

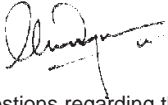
Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Extractable Barium                     | 7        | 2013/07/31        | 2013/07/31       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 19       | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 6        | 2013/07/22        | 2013/07/26       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 12       | 2013/07/22        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 1        | 2013/07/24        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key



Sherlyne Sim

01 Aug 2013 10:55:50 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                      |                                  |                       |                       |            |                 |
|---------------|--------------|----------------------|----------------------------------|-----------------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1925                           | GZ1926                | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:30              | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              | A134514                          | A134514               | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-DN<br/>(4M) Lab-Dup</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
| Moisture                      | %     | 7.6     | N/A     | 27      | 7.8     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | 29      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | 650     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | 230     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | 0.028   | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 105     | 117     | 106     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 99      | 102     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 122     | 120     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 97      | 100     | 99      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | N/A     | 92      | 103     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                   |                      |                      |                      |            |                 |
|---------------|--------------|-----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1927                            | GZ1928               | GZ1930               | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:40               | 2013/07/19<br>16:50  | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514                           | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-2EN<br/>(4M) Lab-Dup</b> | <b>EX-13-LN (4M)</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |     |         |         |         |        |         |
|-------------------------------|-------|-----|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |     |         |         |         |        |         |
| Moisture                      | %     | N/A | 12      | 7.5     | 6.3     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |     |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 18  | 190     | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |     |         |         |         |        |         |
| Benzene                       | mg/kg | N/A | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | N/A | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |     |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | N/A | 109     | 105     | 107     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | N/A | 100     | 100     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | N/A | 126     | 128     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | N/A | 101     | 99      | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 99  | 94      | 93      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1933               | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
|---------------|--------------|----------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 8.5     | 2.5     | 3.7     | 3.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 16      | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 70      | <50     | 51      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 105     | 103     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | 98      | 101     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 126     | 127     | 123     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 98      | 98      | 102     | 102     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 105     | 98      | 107     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 9.7     | 5.9     | 4.3     | 2.9     | 2.7     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 65      | <10     | 23      | 26      | 14      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 100     | 67      | 67      | 130     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 60      | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 100     | 105     | 101     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 92      | 102     | 100     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 124     | 125     | 125     | 122     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 97      | 94      | 102     | 101     | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | 105     | 95      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                |  |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         | GZ1948                                     |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                                 |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                                    |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE N END<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.2     | 3.6     | 3.7 | 7013448 | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 58      | N/A | 7011232 | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | 7011232 | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | 7012055 | <0.0050 | 0.0050 | 7022378 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | 7012055 | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 104     | N/A | 7012055 | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 101     | 99      | N/A | 7012055 | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)       | %     | 130     | 127     | N/A | 7012055 | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 101     | 101     | N/A | 7012055 | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | N/A | 7011232 | 86      | N/A    | 7019559 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                       |            |                       |            |                 |
|---------------|--------------|----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               |            | GZ1926                |            | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  |            | 2013/07/19<br>16:35   |            | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              |            | A134514               |            | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>RDL</b> | <b>EX-13-1EN (4M)</b> | <b>RDL</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                      |            |                      |            |                 |
|---------------|--------------|----------------------|------------|----------------------|------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928               |            | GZ1930               |            | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50  |            | 2013/07/19<br>17:00  |            | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514              |            | A134514              |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>EX-13-AW (4M)</b> | <b>RDL</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                  |            |                      |            |                                |            |                 |
|---------------|--------------|----------------------------------|------------|----------------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1932                           |            | GZ1933               |            | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:20              |            | 2013/07/19<br>17:30  |            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          |            | A134514              |            | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW<br/>(4M) Lab-Dup</b> | <b>RDL</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |       |       |       |       |         |
|--------------------------------|-----------|------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | N/A  | N/A   | 6.5   | N/A   | 1.3   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | N/A  | N/A   | 8.9   | N/A   | 3.7   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | N/A  | 0.10  | 11    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | N/A  | 0.010 | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | N/A  | 0.50  | 37    | 0.59  | 11    | 0.39  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | N/A  | 0.33  | 14    | 0.39  | 1.8   | 0.26  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | N/A  | 0.83  | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | N/A  | 0.43  | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | N/A  | 1.7   | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | N/A  | 1.7   | 110   | 2.0   | 13    | 1.3   | 7007668 |
| <b>Soluble Parameters</b>      |           |      |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | N/A  | 5.0   | 17    | 5.0   | 8.6   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | N/A  | 0.020 | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67 | N/A   | 7.63  | N/A   | 7.59  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | N/A  | 0.10  | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | N/A  | 1.5   | 95    | 1.5   | 42    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | N/A  | 1.0   | 37    | 1.0   | 6.7   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | N/A  | 2.5   | 20    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | N/A  | 1.3   | 8.3   | 1.3   | 13    | 1.3   | 7024739 |
| Saturation %                   | %         | N/A  | N/A   | 39    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | N/A  | 5.0   | 290   | 5.0   | 51    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | N/A  | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1935              |            | GZ1936              |            | GZ1937              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>QC Batch</b> |
|               |              | <b>N END W SIDE</b> |            | <b>S END W SIDE</b> |            | <b>N END E SIDE</b> |            |                 |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.2   | N/A   | 1.1   | N/A   | 3.7   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 3.9   | N/A   | 4.1   | N/A   | 5.0   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 3.4   | 0.010 | 3.9   | 0.010 | 1.3   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 13    | 0.45  | 19    | 0.54  | 13    | 0.42  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.8   | 0.30  | 2.5   | 0.36  | 2.8   | 0.28  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 0.76  | 4.4   | 0.91  | 8.5   | 0.70  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.4   | 0.39  | 4.8   | 0.47  | 4.6   | 0.36  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.5   | 2.8   | 1.8   | 9.7   | 1.4   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.5   | 15    | 1.8   | 37    | 1.4   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.9   | 5.0   | 7.8   | 5.0   | 35    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.37  | 0.020 | 0.42  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67  | N/A   | 7.63  | N/A   | 7.50  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.10  | 0.41  | 0.10  | 1.1   | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 43    | 1.5   | 54    | 1.5   | 48    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 5.9   | 1.0   | 6.8   | 1.0   | 10    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 13    | 2.5   | 12    | 2.5   | 31    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 1.3   | 13    | 1.3   | 16    | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 36    | N/A   | 28    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 47    | 5.0   | 40    | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                     |            |                                     |               |            |                                |            |                 |
|---------------|--------------|-------------------------------------|------------|-------------------------------------|---------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1938                              |            | GZ1939                              | GZ1943        |            | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19                          |            | 2013/07/19                          | 2013/07/19    |            | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             |            | A134515                             | A134515       |            | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.1   | N/A   | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 6.7   | N/A   | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 8.7   | 0.10  | 11    | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 2.1   | 0.010 | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 25    | 0.45  | 15    | 12    | 0.39  | 9.9   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.4   | 0.30  | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.8   | 0.74  | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.8   | 0.39  | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 4.4   | 1.5   | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 39    | 1.5   | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 15    | 5.0   | 21    | 5.6   | 5.0   | 5.4   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.76  | 0.020 | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.79  | N/A   | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.43  | 0.10  | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 85    | 1.5   | 57    | 45    | 1.5   | 39    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 12    | 1.0   | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 15    | 13    | 2.5   | 14    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 30    | 1.3   | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 26    | 26    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 130   | 5.0   | 100   | 24    | 5.0   | 19    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.34  | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.3   | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.7   | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 2.6   | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.47  | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 3.2   | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 0.72  | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 4.2   | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 6.88  | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.95  | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 10    | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 1.8   | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 13    | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 2.8   | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 16    | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                      |                      |                      |            |                 |
|---------------|--------------|----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928                           | GZ1930               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50              | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514                          | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(4M) Lab-Dup</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |      |        |        |        |       |         |
|-------------------------------|-------|------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.14 | 0.18   | 0.12   | 0.59   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A  | <0.15  | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A  | 6.0    | 5.0    | 5.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A  | 240    | 79     | 100    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A  | <0.40  | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A  | <0.10  | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A  | 9.2    | 12     | 7.2    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A  | 3.8    | 3.6    | 4.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A  | <5.0   | <5.0   | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A  | 3.4    | 3.0    | 3.6    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A  | <0.050 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A  | 0.56   | 0.51   | 0.54   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A  | 11     | 12     | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A  | <0.50  | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A  | <0.30  | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A  | 12     | 12     | 14     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A  | 24     | 25     | 28     | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                                |                                |                                |            |                 |
|---------------|--------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1933                           | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:30              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(4M) Lab-Dup</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A   | 0.19  | 0.13  | 0.16  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A   | 6.2   | 4.2   | 6.3   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A   | 2300  | 2600  | 2700  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A   | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A   | 0.10  | <0.10 | 0.12  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A   | 37    | 12    | 8.8   | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A   | 3.2   | 1.5   | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A   | 7.8   | 5.8   | 8.1   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A   | 18    | 19    | 39    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A   | 0.058 | 0.063 | 0.072 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A   | 1.1   | 0.49  | 0.89  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A   | 21    | 7.2   | 7.4   | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A   | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A   | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A   | 13    | 11    | 15    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A   | 29    | 23    | 33    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Elements</b>               |       |       |       |       |        |        |       |         |
|-------------------------------|-------|-------|-------|-------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.12  | 0.19  | 0.13  | 0.16   | 0.17   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 3.7   | 5.0   | 5.5   | 5.3    | 6.1    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 630   | 2600  | 1100  | 730    | 480    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | <0.10 | <0.10 | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 27    | 24    | 18    | 8.9    | 15     | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.2   | 1.8   | 2.2   | 2.3    | 3.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0  | 5.6   | <5.0  | 6.7    | 6.6    | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 8.5   | 15    | 9.7   | 9.0    | 12     | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.051 | 0.053 | 0.063 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.73  | 0.76  | 0.70  | 0.72   | 0.70   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 13    | 12    | 11    | 7.2    | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12    | 14    | 11    | 13     | 15     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | <10   | 18    | <10   | 20     | 24     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |  |                                |                                |                 |  |            |                 |
|---------------|--------------|--|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                                     | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                                 | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                    | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END<br/>Lab-Dup</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A    | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A    | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.9    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 510    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | 0.13   | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 18     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.6    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.8    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 13     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.76   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 14     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 16     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 26     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                      |                      |                      |                      |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1931               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:10  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514              | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-BW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |                                |                                |            |                 |
|---------------|--------------|--------------------------------|--|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1934                                 | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30                    | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                        | A134514                                | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1 S END<br/>E SIDE Lab-Dup</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 47     | N/A    | 43     | 45     | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |      |         |
| Sieve - Pan  | %     | 7.0    | 5.8    | 3.8    | 5.6    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 93     | 94     | 96     | 94     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |      |         |

|               |              |                                |                                     |                                     |               |                                |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 25     | 34     | 32     | 37     | N/A    | N/A    | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |        |        |      |         |
| Sieve - Pan  | %     | 2.8    | 4.0    | 1.3    | 6.9    | 9.8    | 3.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 97     | 96     | 99     | 93     | 90     | 96     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |        |        |      |         |



Maxxam Job #: B362533  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |            |                 |
|---------------|--------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>       |   |        |        |      |         |
|----------------------------------|---|--------|--------|------|---------|
| Sieve - Pan                      | % | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |      |         |



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                |            | GZ1928               |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |        |            |        |         |
|-------------------------------|-------|---------|---------|---------|--------|------------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 0.10   | <0.10      | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.042   | <0.010  | 0.010  | <0.010     | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 0.0040 | <0.0040    | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0060  | <0.0050 | 0.0050 | 0.0079     | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0053  | 0.029   | 0.0050 | 0.17       | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 0.041   | 0.0050 | 0.044      | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 0.0085     | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.015   | 0.0059  | 0.025   | 0.0050 | 0.018      | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0084  | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | <0.016 (1) | 0.016  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |            |        |         |
| D10-ANTHRACENE (sur.)         | %     | 106     | 96      | 113     | N/A    | 108        | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 86      | 99      | N/A    | 96         | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 98      | 100     | 113     | N/A    | 112        | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 115     | 115     | 134 (2) | N/A    | 132 (2)    | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to matrix interference.  
( 2 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                      |                              |                 |                      |            |                 |
|---------------|--------------|----------------------|------------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1930                       |                 | GZ1931               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:00          |                 | 2013/07/19<br>17:10  |            |                 |
| COC Number    |              | A134514              | A134514                      |                 | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-AW (4M) Lab-Dup</b> | <b>QC Batch</b> | <b>EX-13-BW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | N/A     | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.037   | 0.022   | 7023968 | 0.021   | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 106     | 7023968 | 109     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 93      | 89      | 7023968 | 89      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 108     | 102     | 7023968 | 106     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 121     | 7023968 | 125     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1932               | GZ1933               | GZ1934                         | GZ1935                         |            |                 |
|---------------|--------------|----------------------|----------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514              | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0057  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0056  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0060  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0094  | 0.025   | 0.0073  | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 114     | 109     | 109     | 101     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 90      | 86      | 86      | 81      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 110     | 108     | 107     | 100     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 130     | 126     | 126     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit





Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134515                             | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0094  | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0076  | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 110     | 107     | 107     | 104     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 87      | 88      | 86      | 86      | 84      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 109     | 110     | 106     | 105     | 104     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 130     | 123     | 124     | 123     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                                |                                |                                |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                         | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | <0.0050 | 0.0051  | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 104     | 108     | 106     | 7023968 | 97      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 85      | 81      | 7023968 | 69      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 103     | 108     | 105     | 7023968 | 96      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 122     | 126     | 123     | 7023968 | 111     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch               | QC Type                     | Parameter                    | Date Analyzed<br>yyyy/mm/dd  | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|-----------------------------|------------------------------|------------------------------|------------|----------|-------|-----------|----------|
| 7011232 KN0               | Matrix Spike<br>[GZ1928-01] | O-TERPHENYL (sur.)           | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | 98       | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | 100      | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)           | 2013/07/25                   |            | 102      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | 116      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | 117      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | 113      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)           | 2013/07/25                   |            |          | 98    | %         | 50 - 130 |
|                           |                             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | <10      |       | mg/kg     |          |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           |                             | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                   |            | <50      |       | mg/kg     |          |
|                           | RPD [GZ1927-01]             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                             | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                   |            | NC       |       | %         | 50       |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                   |                              | NC         |          | %     | 50        |          |
|                           |                             |                              |                              |            |          |       |           |          |
| 7011691 KD5               | Matrix Spike<br>[GZ1933-01] | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | 82       | %     | 75 - 125  |          |
|                           |                             | Spiked Blank                 | 2013/07/23                   |            | 101      | %     | 90 - 110  |          |
|                           | Method Blank                | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | <0.15    |       | mg/kg     |          |
|                           | RPD [GZ1933-01]             | Hex. Chromium (Cr 6+)        | 2013/07/23                   |            | NC       |       | %         | 35       |
| 7012055 CG7               | Matrix Spike<br>[GZ1926-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                   |            | 100      | %     | 60 - 140  |          |
|                           |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/25                   |            | 120      | %     | 60 - 130  |          |
|                           |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                   |            | 102      | %     | 60 - 140  |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | 96       | %     | 60 - 140  |          |
|                           |                             | Toluene                      | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           |                             | Ethylbenzene                 | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                             | m & p-Xylene                 | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           |                             | o-Xylene                     | 2013/07/25                   |            | 90       | %     | 60 - 140  |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | 86       | %     | 60 - 140  |          |
|                           |                             | Spiked Blank                 | 1,4-Difluorobenzene (sur.)   | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           |                             |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25 |          | 96    | %         | 60 - 140 |
|                           |                             |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25 |          | 119   | %         | 60 - 130 |
|                           |                             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           | Benzene                     |                              | 2013/07/25                   |            | 112      | %     | 60 - 140  |          |
|                           | Toluene                     |                              | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           | Ethylbenzene                |                              | 2013/07/25                   |            | 91       | %     | 60 - 140  |          |
|                           | Method Blank                | m & p-Xylene                 | 2013/07/25                   |            | 94       | %     | 60 - 140  |          |
|                           |                             | o-Xylene                     | 2013/07/25                   |            | 93       | %     | 60 - 140  |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | 88       | %     | 60 - 140  |          |
|                           |                             | 1,4-Difluorobenzene (sur.)   | 2013/07/25                   |            | 115      | %     | 60 - 140  |          |
|                           |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                   |            | 79       | %     | 60 - 140  |          |
|                           |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/25                   |            | 127      | %     | 60 - 130  |          |
|                           |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                   |            | 111      | %     | 60 - 140  |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | <0.0050  |       | mg/kg     |          |
|                           |                             | Toluene                      | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           |                             | Ethylbenzene                 | 2013/07/25                   |            | <0.010   |       | mg/kg     |          |
|                           |                             | Xylenes (Total)              | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                             | m & p-Xylene                 | 2013/07/25                   |            | <0.040   |       | mg/kg     |          |
|                           |                             | o-Xylene                     | 2013/07/25                   |            | <0.020   |       | mg/kg     |          |
|                           | RPD [GZ1925-01]             | F1 (C6-C10) - BTEX           | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                             | (C6-C10)                     | 2013/07/25                   |            | <12      |       | mg/kg     |          |
|                           |                             | Benzene                      | 2013/07/25                   |            | NC       |       | %         | 50       |
|                           |                             |                              |                              |            |          |       |           |          |



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| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25                  | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23                  | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23                  | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25                  |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25                  | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25                  | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25                  | 1.3    |          | %     | 35        |
| 7019559 KNO | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25                  |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26                  |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26                  | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25                  | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25                  | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26                  |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26                  |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26                  | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25                  |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25                  |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25                  | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25                  |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25                  |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25                  |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25                  |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25                  |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |        | 93       | %     | 60 - 140  |



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|-------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7022378 YS5 | Spiked Blank                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95       | %     | 60 - 130  |          |
|             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|             |                              | Benzene                      | 2013/07/25                  |            | 108      | %     | 60 - 140  |          |
|             |                              | Toluene                      | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|             |                              | Ethylbenzene                 | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|             |                              | m & p-Xylene                 | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|             |                              | o-Xylene                     | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|             |                              | (C6-C10)                     | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|             |                              | Method Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 104   | %         | 60 - 140 |
|             |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|             | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 103      | %     | 60 - 130  |          |
|             | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 99       | %     | 60 - 140  |          |
|             | Benzene                      |                              | 2013/07/25                  | <0.0050    |          | mg/kg |           |          |
|             | Toluene                      |                              | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|             | Ethylbenzene                 |                              | 2013/07/25                  | <0.010     |          | mg/kg |           |          |
|             | RPD                          | Xylenes (Total)              | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|             |                              | m & p-Xylene                 | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|             |                              | o-Xylene                     | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|             |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          | mg/kg |           |          |
|             |                              | (C6-C10)                     | 2013/07/25                  | <12        |          | mg/kg |           |          |
|             |                              | Benzene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | Toluene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | Xylenes (Total)              | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | m & p-Xylene                 | 2013/07/25                  | NC         |          | %     | 50        |          |
|             | 7022580 AD7                  | QC Standard                  | Saturation %                | 2013/07/26 |          | 103   | %         | 93 - 107 |
|             |                              | RPD                          | Saturation %                | 2013/07/26 | 0.9      |       | %         | 12       |
| 7022770 SSF | QC Standard                  | Soluble Conductivity         | 2013/07/26                  |            | 104      | %     | 85 - 115  |          |
|             | Spiked Blank                 | Soluble Conductivity         | 2013/07/26                  |            | 101      | %     | 90 - 110  |          |
|             | Method Blank                 | Soluble Conductivity         | 2013/07/26                  | <0.020     |          | dS/m  |           |          |
| 7023896 SSF | QC Standard                  | Soluble Conductivity         | 2013/07/26                  | 24.1       |          | %     | 35        |          |
|             | RPD                          | Soluble Conductivity         | 2013/07/26                  |            |          | %     |           |          |
| 7023968 YM1 | QC Standard                  | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102      | %     | 97 - 103  |          |
|             | Spiked Blank                 | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100      | %     | 97 - 103  |          |
|             | RPD [GZ1932-01]              | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |          | %     | 5         |          |
| 7023968 YM1 | Matrix Spike<br>[GZ1931-01]  | D10-ANTHRACENE (sur.)        | 2013/07/26                  |            | 97       | %     | 50 - 130  |          |
|             |                              | D12-BENZO(A)PYRENE (sur.)    | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|             |                              | D8-ACENAPHTHYLENE (sur.)     | 2013/07/26                  |            | 93       | %     | 50 - 130  |          |
|             |                              | TERPHENYL-D14 (sur.)         | 2013/07/26                  |            | 106      | %     | 50 - 130  |          |
|             |                              | Acenaphthene                 | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|             |                              | Acenaphthylene               | 2013/07/26                  |            | 90       | %     | 50 - 130  |          |
|             |                              | Acridine                     | 2013/07/26                  |            | 64       | %     | 50 - 130  |          |
|             |                              | Anthracene                   | 2013/07/26                  |            | 91       | %     | 50 - 130  |          |
|             |                              | Benzo(a)anthracene           | 2013/07/26                  |            | 86       | %     | 50 - 130  |          |
|             |                              | Benzo(b&j)fluoranthene       | 2013/07/26                  |            | 78       | %     | 50 - 130  |          |
|             |                              | Benzo(k)fluoranthene         | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|             |                              | Benzo(g,h,i)perylene         | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |
|             |                              | Benzo(c)phenanthrene         | 2013/07/26                  |            | 77       | %     | 50 - 130  |          |
|             |                              | Benzo(a)pyrene               | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|             |                              | Benzo[e]pyrene               | 2013/07/26                  |            | 74       | %     | 50 - 130  |          |
|             |                              | Chrysene                     | 2013/07/26                  |            | 75       | %     | 50 - 130  |          |
|             |                              | Dibenz(a,h)anthracene        | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |





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| QA/QC<br>Batch<br>Num Init | QC Type                     | Parameter                 | Date<br>Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS    | QC Limits |
|----------------------------|-----------------------------|---------------------------|--------------------------------|---------|----------|----------|-----------|
| 7023968 YM1                | Matrix Spike<br>[GZ1931-01] | Fluoranthene              | 2013/07/26                     |         | 95       | %        | 50 - 130  |
|                            |                             | Fluorene                  | 2013/07/26                     |         | 95       | %        | 50 - 130  |
|                            |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                     |         | 83       | %        | 50 - 130  |
|                            | Spiked Blank                | 2-Methylnaphthalene       | 2013/07/26                     |         | 76       | %        | 50 - 130  |
|                            |                             | Naphthalene               | 2013/07/26                     |         | 81       | %        | 50 - 130  |
|                            |                             | Phenanthrene              | 2013/07/26                     |         | 88       | %        | 50 - 130  |
|                            |                             | Perylene                  | 2013/07/26                     |         | 77       | %        | 50 - 130  |
|                            |                             | Pyrene                    | 2013/07/26                     |         | 92       | %        | 50 - 130  |
|                            |                             | Quinoline                 | 2013/07/26                     |         | 106      | %        | 50 - 130  |
|                            |                             | D10-ANTHRACENE (sur.)     | 2013/07/26                     |         | 86       | %        | 50 - 130  |
|                            |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                     |         | 76       | %        | 50 - 130  |
|                            |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                     |         | 82       | %        | 50 - 130  |
|                            |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                     |         | 95       | %        | 50 - 130  |
|                            |                             | Acenaphthene              | 2013/07/26                     |         | 81       | %        | 50 - 130  |
|                            |                             | Acenaphthylene            | 2013/07/26                     |         | 81       | %        | 50 - 130  |
|                            |                             | Acridine                  | 2013/07/26                     |         | 58       | %        | 50 - 130  |
|                            |                             | Anthracene                | 2013/07/26                     |         | 81       | %        | 50 - 130  |
|                            |                             | Benzo(a)anthracene        | 2013/07/26                     |         | 79       | %        | 50 - 130  |
|                            |                             | Benzo(b&j)fluoranthene    | 2013/07/26                     |         | 71       | %        | 50 - 130  |
|                            |                             | Benzo(k)fluoranthene      | 2013/07/26                     |         | 81       | %        | 50 - 130  |
|                            |                             | Benzo(g,h,i)perylene      | 2013/07/26                     |         | 73       | %        | 50 - 130  |
|                            |                             | Benzo(c)phenanthrene      | 2013/07/26                     |         | 70       | %        | 50 - 130  |
|                            |                             | Benzo(a)pyrene            | 2013/07/26                     |         | 82       | %        | 50 - 130  |
|                            |                             | Benzo[e]pyrene            | 2013/07/26                     |         | 68       | %        | 50 - 130  |
|                            |                             | Chrysene                  | 2013/07/26                     |         | 70       | %        | 50 - 130  |
|                            |                             | Dibenz(a,h)anthracene     | 2013/07/26                     |         | 72       | %        | 50 - 130  |
|                            |                             | Fluoranthene              | 2013/07/26                     |         | 85       | %        | 50 - 130  |
|                            |                             | Fluorene                  | 2013/07/26                     |         | 85       | %        | 50 - 130  |
|                            |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                     |         | 71       | %        | 50 - 130  |
|                            |                             | 2-Methylnaphthalene       | 2013/07/26                     |         | 71       | %        | 50 - 130  |
|                            |                             | Naphthalene               | 2013/07/26                     |         | 72       | %        | 50 - 130  |
|                            |                             | Phenanthrene              | 2013/07/26                     |         | 79       | %        | 50 - 130  |
|                            |                             | Perylene                  | 2013/07/26                     |         | 69       | %        | 50 - 130  |
|                            | Pyrene                      | 2013/07/26                |                                | 84      | %        | 50 - 130 |           |
|                            | Method Blank                | Quinoline                 | 2013/07/26                     |         | 109      | %        | 50 - 130  |
|                            |                             | D10-ANTHRACENE (sur.)     | 2013/07/26                     |         | 108      | %        | 50 - 130  |
|                            |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                     |         | 85       | %        | 50 - 130  |
|                            |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                     |         | 99       | %        | 50 - 130  |
|                            |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                     |         | 118      | %        | 50 - 130  |
|                            |                             | Acenaphthene              | 2013/07/26                     | <0.0050 |          |          | mg/kg     |
|                            |                             | Acenaphthylene            | 2013/07/26                     | <0.0050 |          |          | mg/kg     |
|                            |                             | Acridine                  | 2013/07/26                     | <0.010  |          |          | mg/kg     |
|                            |                             | Anthracene                | 2013/07/26                     | <0.0040 |          |          | mg/kg     |
|                            |                             | Benzo(a)anthracene        | 2013/07/26                     | <0.0050 |          |          | mg/kg     |
|                            |                             | Benzo(b&j)fluoranthene    | 2013/07/26                     | <0.0050 |          |          | mg/kg     |
| Benzo(k)fluoranthene       |                             | 2013/07/26                | <0.0050                        |         |          | mg/kg    |           |
| Benzo(g,h,i)perylene       |                             | 2013/07/26                | <0.0050                        |         |          | mg/kg    |           |
| Benzo(c)phenanthrene       |                             | 2013/07/26                | <0.0050                        |         |          | mg/kg    |           |
| Benzo(a)pyrene             |                             | 2013/07/26                | <0.0050                        |         |          | mg/kg    |           |
| Benzo[e]pyrene             | 2013/07/26                  | <0.0050                   |                                |         | mg/kg    |          |           |
| Chrysene                   | 2013/07/26                  | <0.0050                   |                                |         | mg/kg    |          |           |
| Dibenz(a,h)anthracene      | 2013/07/26                  | <0.0050                   |                                |         | mg/kg    |          |           |
| Fluoranthene               | 2013/07/26                  | <0.0050                   |                                |         | mg/kg    |          |           |
| Fluorene                   | 2013/07/26                  | <0.0050                   |                                |         | mg/kg    |          |           |



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|-------------|-----------------------------|------------------------|-----------------------------|-----------------------|------------|-------|-----------|-------|----------|
| 7023968 YM1 | Method Blank                | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Perylene               | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             | RPD [GZ1930-01]             | Quinoline              | 2013/07/26                  | <0.010                |            | mg/kg |           |       |          |
|             |                             | Acenaphthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acenaphthylene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acridine               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Anthracene             | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)anthracene     | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(b&j)fluoranthene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(k)fluoranthene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(g,h,i)perylene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(c)phenanthrene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo[e]pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Chrysene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Dibenz(a,h)anthracene  | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluoranthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluorene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Perylene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Quinoline              | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 7024524 KD5            | Matrix Spike                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 86        | %     | 75 - 125 |
|             |                             |                        | Spiked Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 99        | %     | 90 - 110 |
|             |                             |                        | Method Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 | <0.15 |           | mg/kg |          |
| RPD         | Hex. Chromium (Cr 6+)       |                        | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024579 KD5 | Matrix Spike                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 102        | %     | 75 - 125  |       |          |
|             | QC Standard                 | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             | Spiked Blank                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 101        | %     | 75 - 125  |       |          |
|             | Method Blank                | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0                  |            | mg/L  |           |       |          |
|             | RPD                         | Soluble Chloride (Cl)  | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Antimony (Sb)    | 2013/07/26                  |                       | 90         | %     | 75 - 125  |       |          |
|             |                             | Total Arsenic (As)     | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Barium (Ba)      | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Beryllium (Be)   | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Cadmium (Cd)     | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Chromium (Cr)    | 2013/07/26                  |                       | 96         | %     | 75 - 125  |       |          |
|             |                             | Total Cobalt (Co)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Copper (Cu)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Lead (Pb)        | 2013/07/26                  |                       | 88         | %     | 75 - 125  |       |          |
|             |                             | Total Magnesium (Mg)   | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Mercury (Hg)     | 2013/07/26                  |                       | 91         | %     | 75 - 125  |       |          |
|             |                             | Total Molybdenum (Mo)  | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Nickel (Ni)      | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Selenium (Se)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Silver (Ag)      | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Thallium (Tl)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)  
 Maxxam Job Number: EB362533

| QA/QC Batch           | QC Type                     | Parameter            | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|-----------------------|-----------------------------|----------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7024662 SF3           | Matrix Spike<br>[GZ1946-01] | Total Tin (Sn)       | 2013/07/26                  |            | 98       | %     | 75 - 125  |          |
|                       |                             | Total Uranium (U)    | 2013/07/26                  |            | 82       | %     | 75 - 125  |          |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                       | QC Standard                 | Total Arsenic (As)   | 2013/07/26                  |            | 119      | %     | 50 - 150  |          |
|                       |                             | Total Barium (Ba)    | 2013/07/26                  |            | 115      | %     | 69 - 131  |          |
|                       |                             | Total Chromium (Cr)  | 2013/07/26                  |            | 109      | %     | 41 - 159  |          |
|                       |                             | Total Cobalt (Co)    | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                       |                             | Total Copper (Cu)    | 2013/07/26                  |            | 106      | %     | 73 - 127  |          |
|                       |                             | Total Lead (Pb)      | 2013/07/26                  |            | 101      | %     | 54 - 146  |          |
|                       |                             | Total Magnesium (Mg) | 2013/07/26                  |            | 94       | %     | 69 - 131  |          |
|                       |                             | Total Nickel (Ni)    | 2013/07/26                  |            | 115      | %     | 61 - 139  |          |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            | 125      | %     | 50 - 150  |          |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            | 109      | %     | 72 - 128  |          |
|                       |                             | Spiked Blank         | Total Antimony (Sb)         | 2013/07/26 |          | 92    | %         | 75 - 125 |
|                       | Total Arsenic (As)          |                      | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                       | Total Barium (Ba)           |                      | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                       | Total Beryllium (Be)        |                      | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                       | Total Cadmium (Cd)          |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Chromium (Cr)         |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Cobalt (Co)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Copper (Cu)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Lead (Pb)             |                      | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                       | Total Magnesium (Mg)        |                      | 2013/07/26                  |            | 89       | %     | 75 - 125  |          |
|                       | Total Mercury (Hg)          |                      | 2013/07/26                  |            | 88       | %     | 75 - 125  |          |
|                       | Total Molybdenum (Mo)       |                      | 2013/07/26                  |            | 95       | %     | 75 - 125  |          |
|                       | Total Nickel (Ni)           |                      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       | Total Selenium (Se)         |                      | 2013/07/26                  |            | 92       | %     | 75 - 125  |          |
|                       | Total Silver (Ag)           |                      | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                       | Total Thallium (Tl)         |                      | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                       | Total Tin (Sn)              |                      | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                       | Method Blank                |                      | Total Uranium (U)           | 2013/07/26 |          | 82    | %         | 75 - 125 |
|                       |                             | Total Vanadium (V)   | 2013/07/26                  |            | 94       | %     | 75 - 125  |          |
|                       |                             | Total Zinc (Zn)      | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                       |                             | Total Antimony (Sb)  | 2013/07/26                  | <1.0       |          |       | mg/kg     |          |
|                       |                             | Total Arsenic (As)   | 2013/07/26                  | <1.0       |          |       | mg/kg     |          |
|                       |                             | Total Barium (Ba)    | 2013/07/26                  | <10        |          |       | mg/kg     |          |
|                       |                             | Total Beryllium (Be) | 2013/07/26                  | <0.40      |          |       | mg/kg     |          |
|                       |                             | Total Cadmium (Cd)   | 2013/07/26                  | <0.10      |          |       | mg/kg     |          |
|                       |                             | Total Chromium (Cr)  | 2013/07/26                  | <1.0       |          |       | mg/kg     |          |
|                       |                             | Total Cobalt (Co)    | 2013/07/26                  | <1.0       |          |       | mg/kg     |          |
|                       |                             | Total Copper (Cu)    | 2013/07/26                  | <5.0       |          |       | mg/kg     |          |
|                       |                             | Total Lead (Pb)      | 2013/07/26                  | <1.0       |          |       | mg/kg     |          |
|                       |                             | Total Magnesium (Mg) | 2013/07/26                  | <100       |          |       | mg/kg     |          |
|                       |                             | Total Mercury (Hg)   | 2013/07/26                  | <0.050     |          |       | mg/kg     |          |
| Total Molybdenum (Mo) |                             | 2013/07/26           | <0.40                       |            |          | mg/kg |           |          |
| Total Nickel (Ni)     |                             | 2013/07/26           | <1.0                        |            |          | mg/kg |           |          |
| Total Selenium (Se)   |                             | 2013/07/26           | <0.50                       |            |          | mg/kg |           |          |
| Total Silver (Ag)     | 2013/07/26                  | <1.0                 |                             |            | mg/kg    |       |           |          |
| Total Thallium (Tl)   | 2013/07/26                  | <0.30                |                             |            | mg/kg    |       |           |          |
| Total Tin (Sn)        | 2013/07/26                  | <1.0                 |                             |            | mg/kg    |       |           |          |
| Total Uranium (U)     | 2013/07/26                  | <1.0                 |                             |            | mg/kg    |       |           |          |
| Total Vanadium (V)    | 2013/07/26                  | <1.0                 |                             |            | mg/kg    |       |           |          |
| Total Zinc (Zn)       | 2013/07/26                  | <10                  |                             |            | mg/kg    |       |           |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 7024662 SF3 | RPD [GZ1946-01] | Total Antimony (Sb)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Arsenic (As)            | 2013/07/26                  | 12.1  |          | %     | 35        |
|             |                 | Total Barium (Ba)             | 2013/07/26                  | 6.0   |          | %     | 35        |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  | 21.1  |          | %     | 35        |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Copper (Cu)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Lead (Pb)               | 2013/07/26                  | 4.3   |          | %     | 35        |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  | 17.1  |          | %     | 35        |
|             |                 | Total Selenium (Se)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Silver (Ag)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Tin (Sn)                | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Uranium (U)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Vanadium (V)            | 2013/07/26                  | 5.8   |          | %     | 35        |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  | NC    |          | %     | 35        |
| 7024739 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 121      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 116      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 112      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 115      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 110      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 108      | %     | 75 - 125  |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  |       | 119      | %     | 78 - 122  |
|             | Spiked Blank    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 99       | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | Method Blank    | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5  |          | mg/L  |           |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0  |          | mg/L  |           |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | <2.5  |          | mg/L  |           |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | <1.3  |          | mg/L  |           |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD             | Soluble Calcium (Ca)          | 2013/07/26                  | 14.5  |          | %     | 35        |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | 12.7  |          | %     | 35        |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | 3.5   |          | %     | 35        |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | 5.1   |          | %     | 35        |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | 7.3   |          | %     | 35        |
| 7024833 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             | [GZ1928-01]     | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       |          |       |           |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10 |          | mg/kg |           |
|             | RPD [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC    |          | %     | 35        |
| 7025101 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 107      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 117      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 102      | %     | 75 - 125  |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type      | Parameter               | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|--------------|-------------------------|-----------------------------|-------|----------|-------|-----------|
| 7025101 JSM | QC Standard  | Soluble Sulphate (SO4)  | 2013/07/26                  |       | 120      | %     | 78 - 122  |
|             | Spiked Blank | Soluble Calcium (Ca)    | 2013/07/26                  |       | 101      | %     | 75 - 125  |
|             |              | Soluble Magnesium (Mg)  | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             |              | Soluble Sodium (Na)     | 2013/07/26                  |       | 106      | %     | 75 - 125  |
|             |              | Soluble Potassium (K)   | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             |              | Soluble Calcium (Ca)    | 2013/07/26                  | <1.5  |          | mg/L  |           |
|             | Method Blank | Soluble Magnesium (Mg)  | 2013/07/26                  | <1.0  |          | mg/L  |           |
|             |              | Soluble Sodium (Na)     | 2013/07/26                  | <2.5  |          | mg/L  |           |
|             |              | Soluble Potassium (K)   | 2013/07/26                  | <1.3  |          | mg/L  |           |
|             |              | Soluble Sulphate (SO4)  | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD          | Soluble Calcium (Ca)    | 2013/07/26                  | 28.5  |          | %     | 35        |
|             |              | Soluble Magnesium (Mg)  | 2013/07/26                  | 10.3  |          | %     | 35        |
|             |              | Soluble Sodium (Na)     | 2013/07/26                  | 3.4   |          | %     | 35        |
|             |              | Soluble Potassium (K)   | 2013/07/26                  | 34.3  |          | %     | 35        |
| 7025470 KD5 | Matrix Spike | Soluble Chloride (Cl)   | 2013/07/26                  |       | 78       | %     | 75 - 125  |
|             | QC Standard  | Soluble Chloride (Cl)   | 2013/07/26                  |       | 90       | %     | 75 - 125  |
|             | Spiked Blank | Soluble Chloride (Cl)   | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Method Blank | Soluble Chloride (Cl)   | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD          | Soluble Chloride (Cl)   | 2013/07/26                  | 1.8   |          | %     | 35        |
| 7037181 JHC | Matrix Spike | Extractable Barium (Ba) | 2013/07/31                  |       | NC       | %     | 75 - 125  |
|             | Spiked Blank | Extractable Barium (Ba) | 2013/07/31                  |       | 89       | %     | 75 - 125  |
|             | Method Blank | Extractable Barium (Ba) | 2013/07/31                  | <1.0  |          | mg/kg |           |
|             | RPD          | Extractable Barium (Ba) | 2013/07/31                  | 0.5   |          | %     | 35        |

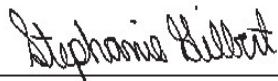
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Stephanie Gilbert, Senior Analyst



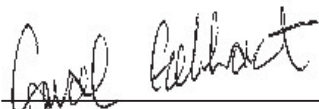
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Poonam Sharma, Senior Analyst, Organics Department



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Daniel Reslan, Volatiles Supervisor



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst





## Validation Signature Page

**Maxxam Job #: B362533**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Company: **IEG Consultants Ltd.**  
 Contact: **Nicole Wills**  
 Address: **2618 Hopewell Place NE**  
 Prov: **Calgary, AB** PC: **T1Y 7J7**  
 Contact #s: Ph: **403-829-3048** Cell: **same**

Report To: **Same as Invoice**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Ph: \_\_\_\_\_ Cell: \_\_\_\_\_

Report Distribution (E-Mail):  
**nwills@klehm.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #: **A04012A05**  
 Project # / Name: **71**  
 Site Location: **Camp Farewell**  
 Quote #:  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve)  REGULAR (5 to 7 Days)  
 Date Required: \_\_\_\_\_

| Sample ID | Depth (unit)          | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |            |               | Other Analysis |                               |         |                | HOLD - Do not Analyze | # of Containers Submitted |                |
|-----------|-----------------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------------|---------------|----------------|-------------------------------|---------|----------------|-----------------------|---------------------------|----------------|
|           |                       |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | BTEX F1-F2 | Routine Water | TOC            | Regulated Metals (CCME / AT1) | Mercury | Other Analysis |                       |                           | Other Analysis |
| 1         | N Wall #1             | 4m                  | Soil 13/07/19 16:30              | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 2 Jars / 1 Bag |
| 2         | N Wall #2             | 4m                  | 16:35                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 2 Jars / 1 Bag |
| 3         | N Wall #3             | 4m                  | 16:40                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 2 Jars / 1 Bag |
| 4         | N Wall #4             | 4m                  | 16:50                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 5         | W Wall #1             | 4m                  | 17:00                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 6         | W Wall #2             | 4m                  | 17:10                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 7         | W Wall #3             | 4m                  | 17:20                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 8         | W Wall #4             | 4m                  | 17:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 9         | Pile # 1 S End E side | Camp.               | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 11             |
| 10        | Pile # 1 N End W side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           | 4 Jars         |
| 11        | Pile # 1 S End W side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           |                |
| 12        | Pile # 1 N End E side |                     | 14:30                            | X          | X                 | X                             | X          | X                     | X                       | X       | X          | X             |                |                               |         |                |                       |                           |                |

Please indicate Filtered, Preserved or Both (F, P, F/P)

SBF/mfc

Relinquished By (Signature/Print): **Nicole Wills** Date (YY/MM/DD): **13/07/19** Time (24:00): **18:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_  
 Special Instructions: **Please notify when received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 S End E side mixed before analysis, etc.).**  
 # of Jars Used & Not Submitted: **Page 38 of 39**

LAB USE ONLY  
 Received By: **BOSU** Date: **2013 07 22** Time: **10:14**  
 Maxxam Job #: **B362533**  
 Custody Seal: \_\_\_\_\_ Temperature: **8, 6, 6**  
 Lab Comments: \_\_\_\_\_ Ice: **present**  
**AS sent**  
**BSS**  
**6, 4, 4**







Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134514, A134515

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/08/03**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B362533**  
**Received: 2013/07/22, 10:14**

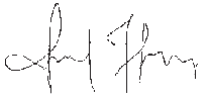
Sample Matrix: Soil  
 # Samples Received: 19

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Extractable Barium                     | 7        | 2013/07/31        | 2013/07/31       | AB SOP-00042      | EPA 200.7         |
| Barium on ICP using Fusion Extraction  | 7        | 2013/08/02        | 2013/08/02       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/24        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| Cation/EC Ratio                        | 18       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Chloride (Soluble)                     | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 17       | 2013/07/22        | 2013/07/23       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 17       | 2013/07/22        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/24        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Elements by ICPMS - Soils              | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 18       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Moisture                               | 18       | N/A               | 2013/07/23       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/25       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 19       | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 6        | 2013/07/22        | 2013/07/26       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 12       | 2013/07/22        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| PAH in Soil by GC/MS                   | 1        | 2013/07/24        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/25        | 2013/07/25       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 17       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| Particle Size by Sieve (75 micron)     | 18       | N/A               | 2013/07/25       | EENVSOP-00077     | SSMA 55.4         |
| Sodium Adsorption Ratio                | 18       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 18       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                          | 18       | 2013/07/25        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation               | 17       | N/A               | 2013/07/23       |                   | CALCULATION       |
| Soluble Ions Calculation               | 1        | N/A               | 2013/07/25       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (t)     | 18       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key

 Jennifer Thompson  
04 Aug 2013 12:32:33 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                      |                                  |                       |                       |            |                 |
|---------------|--------------|----------------------|----------------------------------|-----------------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1925                           | GZ1926                | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:30              | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              | A134514                          | A134514               | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-DN<br/>(4M) Lab-Dup</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
| Moisture                      | %     | 7.6     | N/A     | 27      | 7.8     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | 29      | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | 650     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | 230     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | 0.028   | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 99      | 105     | 117     | 106     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 99      | 99      | 102     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 118     | 122     | 120     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109     | 97      | 100     | 99      | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | N/A     | 92      | 103     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                   |                      |                      |                      |            |                 |
|---------------|--------------|-----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1927                            | GZ1928               | GZ1930               | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:40               | 2013/07/19<br>16:50  | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514                           | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-2EN<br/>(4M) Lab-Dup</b> | <b>EX-13-LN (4M)</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |     |         |         |         |        |         |
|-------------------------------|-------|-----|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |     |         |         |         |        |         |
| Moisture                      | %     | N/A | 12      | 7.5     | 6.3     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |     |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 18  | 190     | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50 | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |     |         |         |         |        |         |
| Benzene                       | mg/kg | N/A | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | N/A | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | N/A | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | N/A | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | N/A | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |     |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | N/A | 109     | 105     | 107     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | N/A | 100     | 100     | 99      | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | N/A | 126     | 128     | 126     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | N/A | 101     | 99      | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 99  | 94      | 93      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ1933               | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
|---------------|--------------|----------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>17:30  | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514              | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW (4M)</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 8.5     | 2.5     | 3.7     | 3.5     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 16      | <10     | <10     | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 70      | <50     | 51      | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 105     | 103     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | 98      | 101     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 126     | 127     | 123     | 124     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 98      | 98      | 102     | 102     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 103     | 105     | 98      | 107     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 9.7     | 5.9     | 4.3     | 2.9     | 2.7     | 0.30   | 7013448 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 65      | <10     | 23      | 26      | 14      | 10     | 7011232 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 100     | 67      | 67      | 130     | 50     | 7011232 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 60      | <50     | <50     | <50     | 50     | 7011232 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7011232 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7012055 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7012055 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7012055 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7012055 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7012055 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 100     | 105     | 101     | 105     | N/A    | 7012055 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 98      | 92      | 102     | 100     | 100     | N/A    | 7012055 |
| D10-ETHYLBENZENE (sur.)       | %     | 124     | 125     | 125     | 122     | 127     | N/A    | 7012055 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 97      | 94      | 102     | 101     | 100     | N/A    | 7012055 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | 105     | 95      | 101     | N/A    | 7011232 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                                |                                |  |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         | GZ1948                                     |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     | 2013/07/19                                 |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        | A134515                                    |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE N END<br/>Lab-Dup</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.2     | 3.6     | 3.7 | 7013448 | 3.4     | 0.30   | 7020458 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 58      | N/A | 7011232 | 14      | 10     | 7019559 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | 7011232 | <50     | 50     | 7019559 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | 7011232 | Yes     | N/A    | 7019559 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | 7012055 | <0.0050 | 0.0050 | 7022378 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | 7012055 | <0.010  | 0.010  | 7022378 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | 7012055 | <0.040  | 0.040  | 7022378 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | 7012055 | <0.020  | 0.020  | 7022378 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | 7012055 | <12     | 12     | 7022378 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 104     | N/A | 7012055 | 100     | N/A    | 7022378 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 101     | 99      | N/A | 7012055 | 92      | N/A    | 7022378 |
| D10-ETHYLBENZENE (sur.)       | %     | 130     | 127     | N/A | 7012055 | 92      | N/A    | 7022378 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 101     | 101     | N/A | 7012055 | 86      | N/A    | 7022378 |
| O-TERPHENYL (sur.)            | %     | 106     | 106     | N/A | 7011232 | 86      | N/A    | 7019559 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                       |            |                       |            |                 |
|---------------|--------------|----------------------|------------|-----------------------|------------|-----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               |            | GZ1926                |            | GZ1927                |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  |            | 2013/07/19<br>16:35   |            | 2013/07/19<br>16:40   |            |                 |
| COC Number    |              | A134514              |            | A134514               |            | A134514               |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>RDL</b> | <b>EX-13-1EN (4M)</b> | <b>RDL</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.90  | N/A   | 1.8   | N/A   | 2.1   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.0   | N/A   | 5.1   | N/A   | 4.1   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 3.3   | 0.010 | 2.8   | 0.010 | 2.0   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.54  | 44    | 1.2   | 15    | 0.48  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.9   | 0.36  | 14    | 0.78  | 3.7   | 0.32  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 4.3   | 0.89  | 13    | 2.0   | 4.7   | 0.79  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 2.9   | 1.0   | 1.7   | 0.41  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.6   | 1.8   | 12    | 3.9   | 3.2   | 1.6   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 12    | 1.8   | 52    | 3.9   | 27    | 1.6   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 7.3   | 5.0   | 15    | 5.0   | 10    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.24  | 0.020 | 0.41  | 0.020 | 0.35  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.83  | N/A   | 6.61  | N/A   | 7.46  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.51  | 0.10  | 0.50  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 56    | 1.5   | 47    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 11    | 1.0   | 18    | 1.0   | 12    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 17    | 2.5   | 15    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 3.7   | 1.3   | 5.2   | 1.3   | 7024739 |
| Saturation %                   | %         | 36    | N/A   | 78    | N/A   | 32    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 33    | 5.0   | 66    | 5.0   | 86    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                      |            |                      |            |                 |
|---------------|--------------|----------------------|------------|----------------------|------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928               |            | GZ1930               |            | GZ1932               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50  |            | 2013/07/19<br>17:00  |            | 2013/07/19<br>17:20  |            |                 |
| COC Number    |              | A134514              |            | A134514              |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>EX-13-AW (4M)</b> | <b>RDL</b> | <b>EX-13-CW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.4   | N/A   | 1.0   | N/A   | 0.67  | N/A   | 7007666 |
| Cation Sum                     | meq/L     | 3.3   | N/A   | 3.3   | N/A   | 2.2   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | 2.3   | 0.010 | 3.2   | 0.010 | 3.3   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.48  | 10    | 0.49  | 6.4   | 0.50  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.9   | 0.32  | 1.6   | 0.33  | 0.77  | 0.33  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | 5.3   | 0.80  | 8.6   | 0.82  | 6.8   | 0.83  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.42  | 2.0   | 0.42  | 1.8   | 0.43  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.6   | 4.9   | 1.6   | <1.7  | 1.7   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | 19    | 1.6   | 9.3   | 1.6   | 11    | 1.7   | 7007668 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.7   | 5.0   | 15    | 5.0   | <5.0  | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.28  | 0.020 | 0.28  | 0.020 | 0.19  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.68  | N/A   | 7.71  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.65  | 0.10  | 1.1   | 0.10  | 1.2   | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | 34    | 1.5   | 32    | 1.5   | 19    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 5.0   | 1.0   | 2.3   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 26    | 2.5   | 21    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 4.8   | 1.3   | 6.2   | 1.3   | 5.5   | 1.3   | 7024739 |
| Saturation %                   | %         | 32    | N/A   | 33    | N/A   | 33    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 59    | 5.0   | 29    | 5.0   | 32    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

RDL = Reportable Detection Limit



### SOIL SALINITY 4 (SOIL)

|               |              |                                  |            |                      |            |                                |            |                 |
|---------------|--------------|----------------------------------|------------|----------------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1932                           |            | GZ1933               |            | GZ1934                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:20              |            | 2013/07/19<br>17:30  |            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          |            | A134514              |            | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW<br/>(4M) Lab-Dup</b> | <b>RDL</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |       |       |       |       |         |
|--------------------------------|-----------|------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | N/A  | N/A   | 6.5   | N/A   | 1.3   | N/A   | 7007666 |
| Cation Sum                     | meq/L     | N/A  | N/A   | 8.9   | N/A   | 3.7   | N/A   | 7007666 |
| Cation/EC Ratio                | N/A       | N/A  | 0.10  | 11    | 0.10  | 11    | 0.10  | 7007661 |
| Ion Balance                    | N/A       | N/A  | 0.010 | 1.4   | 0.010 | 2.8   | 0.010 | 7007665 |
| Calculated Calcium (Ca)        | mg/kg     | N/A  | 0.50  | 37    | 0.59  | 11    | 0.39  | 7007668 |
| Calculated Magnesium (Mg)      | mg/kg     | N/A  | 0.33  | 14    | 0.39  | 1.8   | 0.26  | 7007668 |
| Calculated Sodium (Na)         | mg/kg     | N/A  | 0.83  | 7.9   | 0.98  | 4.2   | 0.65  | 7007668 |
| Calculated Potassium (K)       | mg/kg     | N/A  | 0.43  | 3.3   | 0.51  | 3.3   | 0.34  | 7007668 |
| Calculated Chloride (Cl)       | mg/kg     | N/A  | 1.7   | 6.6   | 2.0   | 2.2   | 1.3   | 7007668 |
| Calculated Sulphate (SO4)      | mg/kg     | N/A  | 1.7   | 110   | 2.0   | 13    | 1.3   | 7007668 |
| <b>Soluble Parameters</b>      |           |      |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | N/A  | 5.0   | 17    | 5.0   | 8.6   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | N/A  | 0.020 | 0.80  | 0.020 | 0.32  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67 | N/A   | 7.63  | N/A   | 7.59  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | N/A  | 0.10  | 0.45  | 0.10  | 0.61  | 0.10  | 7007667 |
| Soluble Calcium (Ca)           | mg/L      | N/A  | 1.5   | 95    | 1.5   | 42    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | N/A  | 1.0   | 37    | 1.0   | 6.7   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | N/A  | 2.5   | 20    | 2.5   | 16    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | N/A  | 1.3   | 8.3   | 1.3   | 13    | 1.3   | 7024739 |
| Saturation %                   | %         | N/A  | N/A   | 39    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | N/A  | 5.0   | 290   | 5.0   | 51    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | N/A  | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7007669 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                     |            |                     |            |                 |
|---------------|--------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID     |              | GZ1935              |            | GZ1936              |            | GZ1937              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            | 2013/07/19<br>14:30 |            |                 |
| COC Number    |              | A134514             |            | A134514             |            | A134514             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>PILE#1</b>       | <b>RDL</b> | <b>QC Batch</b> |
|               |              | <b>N END W SIDE</b> |            | <b>S END W SIDE</b> |            | <b>N END E SIDE</b> |            |                 |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.2   | N/A   | 1.1   | N/A   | 3.7   | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 3.9   | N/A   | 4.1   | N/A   | 5.0   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 3.4   | 0.010 | 3.9   | 0.010 | 1.3   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 13    | 0.45  | 19    | 0.54  | 13    | 0.42  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.8   | 0.30  | 2.5   | 0.36  | 2.8   | 0.28  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.0   | 0.76  | 4.4   | 0.91  | 8.5   | 0.70  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.4   | 0.39  | 4.8   | 0.47  | 4.6   | 0.36  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 2.1   | 1.5   | 2.8   | 1.8   | 9.7   | 1.4   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.5   | 15    | 1.8   | 37    | 1.4   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 6.9   | 5.0   | 7.8   | 5.0   | 35    | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.37  | 0.020 | 0.42  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.67  | N/A   | 7.63  | N/A   | 7.50  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.50  | 0.10  | 0.41  | 0.10  | 1.1   | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 43    | 1.5   | 54    | 1.5   | 48    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 5.9   | 1.0   | 6.8   | 1.0   | 10    | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 13    | 2.5   | 12    | 2.5   | 31    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 28    | 1.3   | 13    | 1.3   | 16    | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 36    | N/A   | 28    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 47    | 5.0   | 40    | 5.0   | 130   | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                                     |            |                                     |               |            |                                |            |                 |
|---------------|--------------|-------------------------------------|------------|-------------------------------------|---------------|------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1938                              |            | GZ1939                              | GZ1943        |            | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19                          |            | 2013/07/19                          | 2013/07/19    |            | 2013/07/19                     |            |                 |
| COC Number    |              | A134515                             |            | A134515                             | A134515       |            | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.1   | N/A   | 2.8   | 0.65  | N/A   | 0.55  | N/A   | 7009893 |
| Cation Sum                     | meq/L     | 6.7   | N/A   | 4.8   | 3.5   | N/A   | 3.1   | N/A   | 7009893 |
| Cation/EC Ratio                | N/A       | 8.7   | 0.10  | 11    | 12    | 0.10  | 12    | 0.10  | 7009885 |
| Ion Balance                    | N/A       | 2.1   | 0.010 | 1.7   | 5.4   | 0.010 | 5.6   | 0.010 | 7009891 |
| Calculated Calcium (Ca)        | mg/kg     | 25    | 0.45  | 15    | 12    | 0.39  | 9.9   | 0.38  | 7009895 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.4   | 0.30  | 1.9   | 1.8   | 0.26  | 1.3   | 0.26  | 7009895 |
| Calculated Sodium (Na)         | mg/kg     | 4.8   | 0.74  | 4.0   | 3.4   | 0.66  | 3.6   | 0.64  | 7009895 |
| Calculated Potassium (K)       | mg/kg     | 8.8   | 0.39  | 7.4   | 1.2   | 0.34  | 1.0   | 0.33  | 7009895 |
| Calculated Chloride (Cl)       | mg/kg     | 4.4   | 1.5   | 5.5   | 1.5   | 1.3   | 1.4   | 1.3   | 7009895 |
| Calculated Sulphate (SO4)      | mg/kg     | 39    | 1.5   | 27    | 6.2   | 1.3   | 4.9   | 1.3   | 7009895 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 15    | 5.0   | 21    | 5.6   | 5.0   | 5.4   | 5.0   | 7024579 |
| Soluble Conductivity           | dS/m      | 0.76  | 0.020 | 0.43  | 0.30  | 0.020 | 0.25  | 0.020 | 7020744 |
| Soluble (CaCl2) pH             | N/A       | 7.79  | N/A   | 8.00  | 7.48  | N/A   | 7.36  | N/A   | 7023896 |
| Sodium Adsorption Ratio        | N/A       | 0.43  | 0.10  | 0.50  | 0.47  | 0.10  | 0.57  | 0.10  | 7009894 |
| Soluble Calcium (Ca)           | mg/L      | 85    | 1.5   | 57    | 45    | 1.5   | 39    | 1.5   | 7024739 |
| Soluble Magnesium (Mg)         | mg/L      | 12    | 1.0   | 7.1   | 6.7   | 1.0   | 5.2   | 1.0   | 7024739 |
| Soluble Sodium (Na)            | mg/L      | 16    | 2.5   | 15    | 13    | 2.5   | 14    | 2.5   | 7024739 |
| Soluble Potassium (K)          | mg/L      | 30    | 1.3   | 28    | 4.4   | 1.3   | 4.1   | 1.3   | 7024739 |
| Saturation %                   | %         | 30    | N/A   | 26    | 26    | N/A   | 26    | N/A   | 7019899 |
| Soluble Sulphate (SO4)         | mg/L      | 130   | 5.0   | 100   | 24    | 5.0   | 19    | 5.0   | 7024739 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | <0.10 | 0.10  | <0.10 | 0.10  | 7009896 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                                |                                |            |                 |  |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1947                         | GZ1948                         |            |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                     |            |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                        |            |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.34  | 0.46  | N/A   | 7009893 | 0.37  | N/A   | 7011504 |
| Cation Sum                     | meq/L     | 1.3   | 1.6   | N/A   | 7009893 | 1.9   | N/A   | 7011504 |
| Cation/EC Ratio                | N/A       | 12    | 12    | 0.10  | 7009885 | 13    | 0.10  | 7011497 |
| Ion Balance                    | N/A       | 3.7   | 3.5   | 0.010 | 7009891 | 5.2   | 0.010 | 7011503 |
| Calculated Calcium (Ca)        | mg/kg     | 2.6   | 4.1   | 0.38  | 7009895 | 6.1   | 0.44  | 7011508 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.47  | 0.55  | 0.25  | 7009895 | 0.85  | 0.30  | 7011508 |
| Calculated Sodium (Na)         | mg/kg     | 3.2   | 2.9   | 0.63  | 7009895 | 3.8   | 0.74  | 7011508 |
| Calculated Potassium (K)       | mg/kg     | 0.72  | 1.1   | 0.33  | 7009895 | 1.1   | 0.38  | 7011508 |
| Calculated Chloride (Cl)       | mg/kg     | <1.3  | <1.3  | 1.3   | 7009895 | <1.5  | 1.5   | 7011508 |
| Calculated Sulphate (SO4)      | mg/kg     | 4.2   | 5.5   | 1.3   | 7009895 | 5.3   | 1.5   | 7011508 |
| <b>Soluble Parameters</b>      |           |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | <5.0  | 5.0   | 7024579 | <5.0  | 5.0   | 7025470 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.13  | 0.020 | 7020744 | 0.15  | 0.020 | 7022770 |
| Soluble (CaCl2) pH             | N/A       | 6.88  | 7.25  | N/A   | 7023896 | 7.07  | N/A   | 7021078 |
| Sodium Adsorption Ratio        | N/A       | 0.95  | 0.72  | 0.10  | 7009894 | 0.71  | 0.10  | 7011507 |
| Soluble Calcium (Ca)           | mg/L      | 10    | 16    | 1.5   | 7024739 | 20    | 1.5   | 7025101 |
| Soluble Magnesium (Mg)         | mg/L      | 1.8   | 2.2   | 1.0   | 7024739 | 2.9   | 1.0   | 7025101 |
| Soluble Sodium (Na)            | mg/L      | 13    | 12    | 2.5   | 7024739 | 13    | 2.5   | 7025101 |
| Soluble Potassium (K)          | mg/L      | 2.8   | 4.5   | 1.3   | 7024739 | 3.7   | 1.3   | 7025101 |
| Saturation %                   | %         | 25    | 25    | N/A   | 7019899 | 30    | N/A   | 7022580 |
| Soluble Sulphate (SO4)         | mg/L      | 16    | 22    | 5.0   | 7024739 | 18    | 5.0   | 7025101 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | <0.10 | 0.10  | 7009896 | <0.10 | 0.10  | 7011509 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |       |       |        |       |         |
|-------------------------------|-------|--------|-------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | <0.10  | 0.95  | 0.23  | 0.14   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15 | <0.15 | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 5.2    | 5.4   | 6.0   | 4.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 78     | 380   | 99    | 82     | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40 | <0.40 | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.21  | 0.11  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 8.5    | 14    | 6.6   | 7.0    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.5    | 3.7   | 3.7   | 3.7    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0   | 9.9   | <5.0  | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 2.9    | 9.5   | 3.7   | 5.0    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 0.059 | 0.062 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.47   | 0.50  | 0.69  | 0.40   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 11     | 14    | 11    | 11     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50 | <0.50 | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30 | <0.30 | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | 1.7   | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0  | <1.0  | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 11     | 15    | 13    | 12     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 24     | 49    | 30    | 28     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                      |                      |                      |            |                 |
|---------------|--------------|----------------------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1928                           | GZ1930               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:50              | 2013/07/19<br>17:00  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514                          | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(4M) Lab-Dup</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |      |        |        |        |       |         |
|-------------------------------|-------|------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.14 | 0.18   | 0.12   | 0.59   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A  | <0.15  | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A  | 6.0    | 5.0    | 5.8    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A  | 240    | 79     | 100    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A  | <0.40  | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A  | <0.10  | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A  | 9.2    | 12     | 7.2    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A  | 3.8    | 3.6    | 4.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A  | <5.0   | <5.0   | <5.0   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A  | 3.4    | 3.0    | 3.6    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A  | <0.050 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A  | 0.56   | 0.51   | 0.54   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A  | 11     | 12     | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A  | <0.50  | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A  | <0.30  | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A  | <1.0   | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A  | 12     | 12     | 14     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A  | 24     | 25     | 28     | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                  |                                |                                |                                |            |                 |
|---------------|--------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1933                           | GZ1934                         | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>17:30              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                          | A134514                        | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(4M) Lab-Dup</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A   | 0.19  | 0.13  | 0.16  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | N/A   | 6.2   | 4.2   | 6.3   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | N/A   | 2300  | 2600  | 2700  | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | N/A   | <0.40 | <0.40 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | N/A   | 0.10  | <0.10 | 0.12  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | N/A   | 37    | 12    | 8.8   | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | N/A   | 3.2   | 1.5   | 2.9   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | N/A   | 7.8   | 5.8   | 8.1   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | N/A   | 18    | 19    | 39    | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | N/A   | 0.058 | 0.063 | 0.072 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | N/A   | 1.1   | 0.49  | 0.89  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | N/A   | 21    | 7.2   | 7.4   | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | N/A   | <0.50 | <0.50 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | N/A   | <0.30 | <0.30 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | N/A   | <1.0  | <1.0  | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | N/A   | 13    | 11    | 15    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | N/A   | 29    | 23    | 33    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                                |                                     |                                     |               |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Elements</b>               |       |       |       |       |        |        |       |         |
|-------------------------------|-------|-------|-------|-------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.12  | 0.19  | 0.13  | 0.16   | 0.17   | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15  | <0.15  | 0.15  | 7011691 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 3.7   | 5.0   | 5.5   | 5.3    | 6.1    | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 630   | 2600  | 1100  | 730    | 480    | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40  | <0.40  | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | <0.10 | <0.10 | <0.10 | <0.10  | <0.10  | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 27    | 24    | 18    | 8.9    | 15     | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 1.2   | 1.8   | 2.2   | 2.3    | 3.3    | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | <5.0  | 5.6   | <5.0  | 6.7    | 6.6    | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 8.5   | 15    | 9.7   | 9.0    | 12     | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | 0.051 | 0.053 | 0.063 | <0.050 | <0.050 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.73  | 0.76  | 0.70  | 0.72   | 0.70   | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 13    | 12    | 11    | 7.2    | 12     | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50  | <0.50  | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30  | <0.30  | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0   | <1.0   | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 12    | 14    | 11    | 13     | 15     | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | <10   | 18    | <10   | 20     | 24     | 10    | 7024662 |

RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |  |                                |                                |                 |  |            |                 |
|---------------|--------------|--|--------------------------------|--------------------------------|-----------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1946                                     | GZ1947                         | GZ1948                         |                 | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                                 | 2013/07/19                     | 2013/07/19                     |                 | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                                    | A134515                        | A134515                        |                 | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 E<br/>SIDE N END<br/>Lab-Dup</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>QC Batch</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |       |         |       |       |         |
|-------------------------------|-------|--------|--------|-------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | N/A    | 0.12   | 0.11  | 7024833 | 0.14  | 0.10  | 7024833 |
| Hex. Chromium (Cr 6+)         | mg/kg | N/A    | <0.15  | <0.15 | 7011691 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Arsenic (As)            | mg/kg | 6.9    | 5.7    | 5.7   | 7024662 | 6.2   | 1.0   | 7024662 |
| Total Barium (Ba)             | mg/kg | 510    | 260    | 300   | 7024662 | 290   | 10    | 7024662 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40 | 7024662 | <0.40 | 0.40  | 7024662 |
| Total Cadmium (Cd)            | mg/kg | 0.13   | <0.10  | <0.10 | 7024662 | <0.10 | 0.10  | 7024662 |
| Total Chromium (Cr)           | mg/kg | 18     | 29     | 42    | 7024662 | 11    | 1.0   | 7024662 |
| Total Cobalt (Co)             | mg/kg | 3.6    | 2.7    | 2.9   | 7024662 | 3.2   | 1.0   | 7024662 |
| Total Copper (Cu)             | mg/kg | 6.8    | 5.5    | 6.4   | 7024662 | 5.7   | 5.0   | 7024662 |
| Total Lead (Pb)               | mg/kg | 13     | 6.8    | 7.8   | 7024662 | 7.6   | 1.0   | 7024662 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | 0.068 | 7024662 | 0.056 | 0.050 | 7024662 |
| Total Molybdenum (Mo)         | mg/kg | 0.76   | 0.90   | 1.6   | 7024662 | 0.63  | 0.40  | 7024662 |
| Total Nickel (Ni)             | mg/kg | 14     | 17     | 23    | 7024662 | 10    | 1.0   | 7024662 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50 | 7024662 | <0.50 | 0.50  | 7024662 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30 | 7024662 | <0.30 | 0.30  | 7024662 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0  | 7024662 | <1.0  | 1.0   | 7024662 |
| Total Vanadium (V)            | mg/kg | 16     | 14     | 13    | 7024662 | 14    | 1.0   | 7024662 |
| Total Zinc (Zn)               | mg/kg | 26     | 18     | 16    | 7024662 | 21    | 10    | 7024662 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                      |                       |                       |                      |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                | GZ1928               |            |                 |
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |        |        |        |      |         |
|----------------------------|---|--------|--------|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |        |        |        |      |         |
| Sieve - Pan                | % | 6.0    | 29     | 3.8    | 4.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 94     | 71     | 96     | 95     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |

RDL = Reportable Detection Limit

|               |              |                      |                      |                      |                      |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1931               | GZ1932               | GZ1933               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:10  | 2013/07/19<br>17:20  | 2013/07/19<br>17:30  |            |                 |
| COC Number    |              | A134514              | A134514              | A134514              | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-BW (4M)</b> | <b>EX-13-CW (4M)</b> | <b>EX-13-DW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                            |   |        |     |        |        |      |         |
|----------------------------|---|--------|-----|--------|--------|------|---------|
| <b>Physical Properties</b> |   |        |     |        |        |      |         |
| Moisture                   | % | N/A    | 7.9 | N/A    | N/A    | 0.30 | 7013489 |
| Sieve - Pan                | % | 2.9    | N/A | 2.5    | 11     | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)    | % | 97     | N/A | 98     | 89     | 0.20 | 7019555 |
| Grain Size                 | % | COARSE | N/A | COARSE | COARSE | 0.20 | 7019555 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                                |  |                                |                                |            |                 |
|---------------|--------------|--------------------------------|--|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1934                                 | GZ1935                         | GZ1936                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30                    | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            |            |                 |
| COC Number    |              | A134514                        | A134514                                | A134514                        | A134514                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1 S END<br/>E SIDE Lab-Dup</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 47     | N/A    | 43     | 45     | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |      |         |
| Sieve - Pan  | %     | 7.0    | 5.8    | 3.8    | 5.6    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 93     | 94     | 96     | 94     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |      |         |

|               |              |                                |                                     |                                     |               |                                |                                |            |                 |
|---------------|--------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|--------------------------------|--------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        | GZ1946                         | GZ1947                         |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    | 2013/07/19                     | 2013/07/19                     |            |                 |
| COC Number    |              | A134514                        | A134515                             | A134515                             | A134515       | A134515                        | A134515                        |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>PILE#3 E<br/>SIDE N END</b> | <b>PILE#3 W<br/>SIDE S END</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |        |        |        |        |        |        |      |         |
|--|-------|--------|--------|--------|--------|--------|--------|------|---------|
| <b>Elements</b>  |       |        |        |        |        |        |        |      |         |
| Extractable Barium (Ba)                                  | mg/kg | 25     | 34     | 32     | 37     | N/A    | N/A    | 1.0  | 7037181 |
| <b>Physical Properties</b>                               |       |        |        |        |        |        |        |      |         |
| Sieve - Pan  | %     | 2.8    | 4.0    | 1.3    | 6.9    | 9.8    | 3.7    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)                                  | %     | 97     | 96     | 99     | 93     | 90     | 96     | 0.20 | 7019555 |
| Grain Size   | %     | COARSE | COARSE | COARSE | COARSE | COARSE | COARSE | 0.20 | 7019555 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |        |        |        |        |        |        |      |         |



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

### RESULTS OF CHEMICAL ANALYSES OF SOIL

|               |              |                                |  |            |                 |
|---------------|--------------|--------------------------------|--|------------|-----------------|
| Maxxam ID     |              | GZ1948                         | GZ2419                                   |            |                 |
| Sampling Date |              | 2013/07/19                     | 2013/07/19                               |            |                 |
| COC Number    |              | A134515                        | A134515                                  |            |                 |
|               | <b>UNITS</b> | <b>PILE#3 W<br/>SIDE N END</b> | <b>PILE<br/>#3 E SIDE<br/>S END (EX)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>       |   |        |        |      |         |
|----------------------------------|---|--------|--------|------|---------|
| Sieve - Pan                      | % | 4.9    | 4.8    | 0.20 | 7019555 |
| Sieve - #200 (>0.075mm)          | % | 95     | 95     | 0.20 | 7019555 |
| Grain Size                       | % | COARSE | COARSE | 0.20 | 7019555 |
| RDL = Reportable Detection Limit |   |        |        |      |         |





Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1925               | GZ1926                | GZ1927                |            | GZ1928               |            |                 |
|---------------|--------------|----------------------|-----------------------|-----------------------|------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>16:30  | 2013/07/19<br>16:35   | 2013/07/19<br>16:40   |            | 2013/07/19<br>16:50  |            |                 |
| COC Number    |              | A134514              | A134514               | A134514               |            | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN (4M)</b> | <b>EX-13-1EN (4M)</b> | <b>EX-13-2EN (4M)</b> | <b>RDL</b> | <b>EX-13-LN (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |        |            |        |         |
|-------------------------------|-------|---------|---------|---------|--------|------------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 0.10   | <0.10      | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.042   | <0.010  | 0.010  | <0.010     | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 0.0040 | <0.0040    | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0060  | <0.0050 | 0.0050 | 0.0079     | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0053  | 0.029   | 0.0050 | 0.17       | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 0.041   | 0.0050 | 0.044      | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 0.0085     | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.015   | 0.0059  | 0.025   | 0.0050 | 0.018      | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0084  | <0.0050 | 0.0050 | <0.0050    | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | <0.016 (1) | 0.016  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |            |        |         |
| D10-ANTHRACENE (sur.)         | %     | 106     | 96      | 113     | N/A    | 108        | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 86      | 99      | N/A    | 96         | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 98      | 100     | 113     | N/A    | 112        | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 115     | 115     | 134 (2) | N/A    | 132 (2)    | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to matrix interference.  
( 2 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                      |                              |                 |                      |            |                 |
|---------------|--------------|----------------------|------------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ1930               | GZ1930                       |                 | GZ1931               |            |                 |
| Sampling Date |              | 2013/07/19<br>17:00  | 2013/07/19<br>17:00          |                 | 2013/07/19<br>17:10  |            |                 |
| COC Number    |              | A134514              | A134514                      |                 | A134514              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW (4M)</b> | <b>EX-13-AW (4M) Lab-Dup</b> | <b>QC Batch</b> | <b>EX-13-BW (4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | N/A     | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.037   | 0.022   | 7023968 | 0.021   | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 106     | 7023968 | 109     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 93      | 89      | 7023968 | 89      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 108     | 102     | 7023968 | 106     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 121     | 7023968 | 125     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |       | GZ1932              | GZ1933              | GZ1934                 | GZ1935                 |     |          |
|---------------|-------|---------------------|---------------------|------------------------|------------------------|-----|----------|
| Sampling Date |       | 2013/07/19<br>17:20 | 2013/07/19<br>17:30 | 2013/07/19<br>14:30    | 2013/07/19<br>14:30    |     |          |
| COC Number    |       | A134514             | A134514             | A134514                | A134514                |     |          |
|               | UNITS | EX-13-CW (4M)       | EX-13-DW (4M)       | PILE#1<br>S END E SIDE | PILE#1<br>N END W SIDE | RDL | QC Batch |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0057  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0056  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0060  | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0094  | 0.025   | 0.0073  | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 114     | 109     | 109     | 101     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 90      | 86      | 86      | 81      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 110     | 108     | 107     | 100     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 130     | 126     | 126     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |              | GZ1936                         | GZ1937                         | GZ1938                              | GZ1939                              | GZ1943        |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------|------------|-----------------|
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134515                             | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | <0.10   | <0.10   | 0.10   | 7008901 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0094  | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0076  | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 109     | 110     | 107     | 107     | 104     | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 87      | 88      | 86      | 86      | 84      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 109     | 110     | 106     | 105     | 104     | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 128     | 130     | 123     | 124     | 123     | N/A    | 7023968 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

| Maxxam ID     |       | GZ1946                 | GZ1947                 | GZ1948                 |          | GZ2419                          |     |          |
|---------------|-------|------------------------|------------------------|------------------------|----------|---------------------------------|-----|----------|
| Sampling Date |       | 2013/07/19             | 2013/07/19             | 2013/07/19             |          | 2013/07/19                      |     |          |
| COC Number    |       | A134515                | A134515                | A134515                |          | A134515                         |     |          |
|               | UNITS | PILE#3 E<br>SIDE N END | PILE#3 W<br>SIDE S END | PILE#3 W<br>SIDE N END | QC Batch | PILE<br>#3 E SIDE<br>S END (EX) | RDL | QC Batch |

| <b>Polycyclic Aromatics</b>   |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | <0.10   | <0.10   | 7008901 | <0.10   | 0.10   | 7011505 |
| Acenaphthylene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | <0.0040 | <0.0040 | 7023968 | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | <0.0050 | 0.0051  | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | <0.0050 | <0.0050 | 7023968 | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | <0.010  | <0.010  | 7023968 | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 104     | 108     | 106     | 7023968 | 97      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 82      | 85      | 81      | 7023968 | 69      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 103     | 108     | 105     | 7023968 | 96      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 122     | 126     | 123     | 7023968 | 111     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B362533  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

|               |              |                                |                                |                                |                                |                                     |            |                 |
|---------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ1934                         | GZ1935                         | GZ1936                         | GZ1937                         | GZ1938                              |            |                 |
| Sampling Date |              | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19<br>14:30            | 2013/07/19                          |            |                 |
| COC Number    |              | A134514                        | A134514                        | A134514                        | A134514                        | A134515                             |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>S END E SIDE</b> | <b>PILE#1<br/>N END W SIDE</b> | <b>PILE#1<br/>S END W SIDE</b> | <b>PILE#1<br/>N END E SIDE</b> | <b>PILE#1<br/>MIDDLE<br/>W SIDE</b> | <b>RDL</b> | <b>QC Batch</b> |

|                          |       |      |      |      |      |      |    |         |
|--------------------------|-------|------|------|------|------|------|----|---------|
| <b>Elements</b>          |       |      |      |      |      |      |    |         |
| Total Fusion Barium (Ba) | mg/kg | 2900 | 5400 | 7600 | 1100 | 3100 | 50 | 7046467 |

RDL = Reportable Detection Limit

|               |              |                                     |               |            |                 |
|---------------|--------------|-------------------------------------|---------------|------------|-----------------|
| Maxxam ID     |              | GZ1939                              | GZ1943        |            |                 |
| Sampling Date |              | 2013/07/19                          | 2013/07/19    |            |                 |
| COC Number    |              | A134515                             | A134515       |            |                 |
|               | <b>UNITS</b> | <b>PILE#1<br/>MIDDLE<br/>E SIDE</b> | <b>PILE#2</b> | <b>RDL</b> | <b>QC Batch</b> |

|                          |       |      |      |    |         |
|--------------------------|-------|------|------|----|---------|
| <b>Elements</b>          |       |      |      |    |         |
| Total Fusion Barium (Ba) | mg/kg | 1800 | 1400 | 50 | 7046467 |

RDL = Reportable Detection Limit





Maxxam Job #: B362533  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 9.3°C |
| Package 3 | 4.7°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB362533

| QA/QC Batch Num Init      | QC Type                      | Parameter                    | Date Analyzed yyyy/mm/dd    | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7011232 KN0               | Matrix Spike [GZ1928-01]     | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 98       | %     | 50 - 130  |          |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 98       | %     | 50 - 130  |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 102      | %     | 50 - 130  |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 100      | %     | 50 - 130  |          |
|                           | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 102      | %     | 50 - 130  |          |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |
|                           | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            |          | 98    | %         | 50 - 130 |
|                           |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | <10      |       | mg/kg     |          |
|                           |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | <50      |       | mg/kg     |          |
|                           |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | <50      |       | mg/kg     |          |
|                           | RPD [GZ1927-01]              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | NC       |       | %         | 50       |
| F3 (C16-C34 Hydrocarbons) |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |
| F4 (C34-C50 Hydrocarbons) |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |
|                           |                              |                              |                             |            |          |       |           |          |
| 7011691 KD5               | Matrix Spike [GZ1933-01]     | Hex. Chromium (Cr 6+)        | 2013/07/23                  |            | 82       | %     | 75 - 125  |          |
|                           |                              | Spiked Blank                 | Hex. Chromium (Cr 6+)       | 2013/07/23 |          | 101   | %         | 90 - 110 |
|                           | Method Blank                 | Hex. Chromium (Cr 6+)        | 2013/07/23                  |            | <0.15    |       | mg/kg     |          |
|                           | RPD [GZ1933-01]              | Hex. Chromium (Cr 6+)        | 2013/07/23                  |            | NC       |       | %         | 35       |
| 7012055 CG7               | Matrix Spike [GZ1926-01]     | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |            | 115      | %     | 60 - 140  |          |
|                           |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|                           |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 120      | %     | 60 - 130  |          |
|                           |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 102      | %     | 60 - 140  |          |
|                           |                              | Benzene                      | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|                           |                              | Toluene                      | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|                           |                              | Ethylbenzene                 | 2013/07/25                  |            | 90       | %     | 60 - 140  |          |
|                           |                              | m & p-Xylene                 | 2013/07/25                  |            | 91       | %     | 60 - 140  |          |
|                           |                              | o-Xylene (C6-C10)            | 2013/07/25                  |            | 90       | %     | 60 - 140  |          |
|                           |                              |                              | 2013/07/25                  |            | 86       | %     | 60 - 140  |          |
|                           |                              | Spiked Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 119   | %         | 60 - 140 |
|                           |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 96    | %         | 60 - 140 |
|                           |                              |                              | D10-ETHYLBENZENE (sur.)     | 2013/07/25 |          | 119   | %         | 60 - 130 |
|                           | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 119      | %     | 60 - 140  |          |
|                           | Benzene                      |                              | 2013/07/25                  |            | 112      | %     | 60 - 140  |          |
|                           | Toluene                      |                              | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|                           | Ethylbenzene                 |                              | 2013/07/25                  |            | 91       | %     | 60 - 140  |          |
|                           | Method Blank                 | m & p-Xylene                 | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|                           |                              | o-Xylene (C6-C10)            | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|                           |                              |                              | 2013/07/25                  |            | 88       | %     | 60 - 140  |          |
|                           |                              | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |            | 115      | %     | 60 - 140  |          |
|                           |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |            | 79       | %     | 60 - 140  |          |
|                           |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 127      | %     | 60 - 130  |          |
|                           |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 111      | %     | 60 - 140  |          |
|                           |                              | Benzene                      | 2013/07/25                  |            | <0.0050  |       | mg/kg     |          |
|                           |                              | Toluene                      | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |
|                           |                              | Ethylbenzene                 | 2013/07/25                  |            | <0.010   |       | mg/kg     |          |
|                           |                              | Xylenes (Total)              | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |
|                           |                              | m & p-Xylene                 | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |
|                           |                              | o-Xylene                     | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |
|                           | RPD [GZ1925-01]              | F1 (C6-C10) - BTEX (C6-C10)  | 2013/07/25                  |            | <12      |       | mg/kg     |          |
|                           |                              |                              | 2013/07/25                  |            | <12      |       | mg/kg     |          |
|                           |                              | Benzene                      | 2013/07/25                  |            | NC       |       | %         | 50       |
|                           |                              |                              |                             |            |          |       |           |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)  
 Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                    | Date Analyzed | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|------------------------------|---------------|--------|----------|-------|-----------|
| 7012055 CG7 | RPD [GZ1925-01] | Toluene                      | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Ethylbenzene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | Xylenes (Total)              | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | m & p-Xylene                 | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | o-Xylene                     | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F1 (C6-C10) - BTEX           | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | (C6-C10)                     | 2013/07/25    | NC     |          | %     | 50        |
| 7013448 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD [GZ1948-01] | Moisture                     | 2013/07/23    | 2.7    |          | %     | 20        |
| 7013489 ABH | Method Blank    | Moisture                     | 2013/07/23    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/23    | 4.4    |          | %     | 20        |
| 7019555 SSF | QC Standard     | Sieve - Pan                  | 2013/07/25    |        | 101      | %     | 95 - 105  |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    |        | 98       | %     | 92 - 108  |
|             | Method Blank    | Sieve - Pan                  | 2013/07/25    | <0.20  |          | %     |           |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | <0.20  |          | %     |           |
|             | RPD [GZ1934-01] | Sieve - Pan                  | 2013/07/25    | 19.1   |          | %     | 35        |
|             |                 | Sieve - #200 (>0.075mm)      | 2013/07/25    | 1.3    |          | %     | 35        |
| 7019559 KNO | Matrix Spike    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 108      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 50 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 107      | %     | 50 - 130  |
|             | Spiked Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 99       | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    |        | 112      | %     | 70 - 130  |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    |        | 115      | %     | 70 - 130  |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    |        | 109      | %     | 70 - 130  |
|             | Method Blank    | O-TERPHENYL (sur.)           | 2013/07/25    |        | 103      | %     | 50 - 130  |
|             |                 | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | <10    |          | mg/kg |           |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | <50    |          | mg/kg |           |
|             | RPD             | F2 (C10-C16 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F3 (C16-C34 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
|             |                 | F4 (C34-C50 Hydrocarbons)    | 2013/07/25    | NC     |          | %     | 50        |
| 7019899 LX  | QC Standard     | Saturation %                 | 2013/07/26    |        | 103      | %     | 93 - 107  |
|             | RPD             | Saturation %                 | 2013/07/26    | 0.9    |          | %     | 12        |
| 7020458 ABH | Method Blank    | Moisture                     | 2013/07/25    | <0.30  |          | %     |           |
|             | RPD             | Moisture                     | 2013/07/25    | 11.3   |          | %     | 20        |
| 7020744 SSF | QC Standard     | Soluble Conductivity         | 2013/07/26    |        | 106      | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity         | 2013/07/26    |        | 101      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity         | 2013/07/26    | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity         | 2013/07/26    | 5.8    |          | %     | 35        |
| 7021078 MA4 | QC Standard     | Soluble (CaCl2) pH           | 2013/07/25    |        | 101      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH           | 2013/07/25    |        | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH           | 2013/07/25    | 1.8    |          | %     | 5         |
| 7022378 YS5 | Matrix Spike    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 112      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25    |        | 97       | %     | 60 - 130  |
|             |                 | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25    |        | 97       | %     | 60 - 140  |
|             |                 | Benzene                      | 2013/07/25    |        | 104      | %     | 60 - 140  |
|             |                 | Toluene                      | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | Ethylbenzene                 | 2013/07/25    |        | 95       | %     | 60 - 140  |
|             |                 | m & p-Xylene                 | 2013/07/25    |        | 98       | %     | 60 - 140  |
|             |                 | o-Xylene                     | 2013/07/25    |        | 94       | %     | 60 - 140  |
|             |                 | (C6-C10)                     | 2013/07/25    |        | 93       | %     | 60 - 140  |
|             | Spiked Blank    | 1,4-Difluorobenzene (sur.)   | 2013/07/25    |        | 117      | %     | 60 - 140  |
|             |                 | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25    |        | 93       | %     | 60 - 140  |



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| QA/QC Batch        | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|--------------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7022378 YS5        | Spiked Blank                 | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 95       | %     | 60 - 130  |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 93       | %     | 60 - 140  |          |
|                    |                              | Benzene                      | 2013/07/25                  |            | 108      | %     | 60 - 140  |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | 96       | %     | 60 - 140  |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|                    |                              | o-Xylene                     | 2013/07/25                  |            | 95       | %     | 60 - 140  |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|                    |                              | Method Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 104   | %         | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|                    | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 103      | %     | 60 - 130  |          |
|                    | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 99       | %     | 60 - 140  |          |
|                    | Benzene                      |                              | 2013/07/25                  | <0.0050    |          |       | mg/kg     |          |
|                    | RPD                          | Toluene                      | 2013/07/25                  | <0.020     |          |       | mg/kg     |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  | <0.010     |          |       | mg/kg     |          |
|                    |                              | Xylenes (Total)              | 2013/07/25                  | <0.040     |          |       | mg/kg     |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  | <0.040     |          |       | mg/kg     |          |
|                    |                              | o-Xylene                     | 2013/07/25                  | <0.020     |          |       | mg/kg     |          |
|                    |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          |       | mg/kg     |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  | <12        |          |       | mg/kg     |          |
|                    |                              | Benzene                      | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Toluene                      | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | Xylenes (Total)              | 2013/07/25                  | NC         |          |       | %         | 50       |
|                    |                              | m & p-Xylene                 | 2013/07/25                  | NC         |          |       | %         | 50       |
| o-Xylene           |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| F1 (C6-C10) - BTEX |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| (C6-C10)           |                              | 2013/07/25                   | NC                          |            |          | %     | 50        |          |
| 7022580 AD7        | QC Standard                  | Saturation %                 | 2013/07/26                  |            | 103      | %     | 93 - 107  |          |
|                    | RPD                          | Saturation %                 | 2013/07/26                  | 0.9        |          | %     | 12        |          |
| 7022770 SSF        | QC Standard                  | Soluble Conductivity         | 2013/07/26                  |            | 104      | %     | 85 - 115  |          |
|                    | Spiked Blank                 | Soluble Conductivity         | 2013/07/26                  |            | 101      | %     | 90 - 110  |          |
|                    | Method Blank                 | Soluble Conductivity         | 2013/07/26                  | <0.020     |          | dS/m  |           |          |
| 7023896 SSF        | RPD                          | Soluble Conductivity         | 2013/07/26                  | 24.1       |          | %     | 35        |          |
|                    | QC Standard                  | Soluble (CaCl2) pH           | 2013/07/26                  |            | 102      | %     | 97 - 103  |          |
| 7023968 YM1        | Spiked Blank                 | Soluble (CaCl2) pH           | 2013/07/26                  |            | 100      | %     | 97 - 103  |          |
|                    | RPD [GZ1932-01]              | Soluble (CaCl2) pH           | 2013/07/26                  | 0.5        |          | %     | 5         |          |
| 7023968 YM1        | Matrix Spike<br>[GZ1931-01]  | D10-ANTHRACENE (sur.)        | 2013/07/26                  |            | 97       | %     | 50 - 130  |          |
|                    |                              | D12-BENZO(A)PYRENE (sur.)    | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|                    |                              | D8-ACENAPHTHYLENE (sur.)     | 2013/07/26                  |            | 93       | %     | 50 - 130  |          |
|                    |                              | TERPHENYL-D14 (sur.)         | 2013/07/26                  |            | 106      | %     | 50 - 130  |          |
|                    |                              | Acenaphthene                 | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|                    |                              | Acenaphthylene               | 2013/07/26                  |            | 90       | %     | 50 - 130  |          |
|                    |                              | Acridine                     | 2013/07/26                  |            | 64       | %     | 50 - 130  |          |
|                    |                              | Anthracene                   | 2013/07/26                  |            | 91       | %     | 50 - 130  |          |
|                    |                              | Benzo(a)anthracene           | 2013/07/26                  |            | 86       | %     | 50 - 130  |          |
|                    |                              | Benzo(b&j)fluoranthene       | 2013/07/26                  |            | 78       | %     | 50 - 130  |          |
|                    |                              | Benzo(k)fluoranthene         | 2013/07/26                  |            | 88       | %     | 50 - 130  |          |
|                    |                              | Benzo(g,h,i)perylene         | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |
|                    |                              | Benzo(c)phenanthrene         | 2013/07/26                  |            | 77       | %     | 50 - 130  |          |
|                    |                              | Benzo(a)pyrene               | 2013/07/26                  |            | 85       | %     | 50 - 130  |          |
|                    |                              | Benzo[e]pyrene               | 2013/07/26                  |            | 74       | %     | 50 - 130  |          |
|                    |                              | Chrysene                     | 2013/07/26                  |            | 75       | %     | 50 - 130  |          |
|                    |                              | Dibenz(a,h)anthracene        | 2013/07/26                  |            | 80       | %     | 50 - 130  |          |



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| QA/QC Batch | QC Type                     | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|-----------------------------|---------------------------|-----------------------------|---------|----------|-------|-----------|
| 7023968 YM1 | Matrix Spike<br>[GZ1931-01] | Fluoranthene              | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Fluorene                  | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |         | 83       | %     | 50 - 130  |
|             |                             | 2-Methylnaphthalene       | 2013/07/26                  |         | 76       | %     | 50 - 130  |
|             |                             | Naphthalene               | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Phenanthrene              | 2013/07/26                  |         | 88       | %     | 50 - 130  |
|             |                             | Perylene                  | 2013/07/26                  |         | 77       | %     | 50 - 130  |
|             |                             | Pyrene                    | 2013/07/26                  |         | 92       | %     | 50 - 130  |
|             | Spiked Blank                | Quinoline                 | 2013/07/26                  |         | 106      | %     | 50 - 130  |
|             |                             | D10-ANTHRACENE (sur.)     | 2013/07/26                  |         | 86       | %     | 50 - 130  |
|             |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |         | 76       | %     | 50 - 130  |
|             |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |         | 82       | %     | 50 - 130  |
|             |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                  |         | 95       | %     | 50 - 130  |
|             |                             | Acenaphthene              | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Acenaphthylene            | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Acridine                  | 2013/07/26                  |         | 58       | %     | 50 - 130  |
|             |                             | Anthracene                | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Benzo(a)anthracene        | 2013/07/26                  |         | 79       | %     | 50 - 130  |
|             |                             | Benzo(b&j)fluoranthene    | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | Benzo(k)fluoranthene      | 2013/07/26                  |         | 81       | %     | 50 - 130  |
|             |                             | Benzo(g,h,i)perylene      | 2013/07/26                  |         | 73       | %     | 50 - 130  |
|             |                             | Benzo(c)phenanthrene      | 2013/07/26                  |         | 70       | %     | 50 - 130  |
|             |                             | Benzo(a)pyrene            | 2013/07/26                  |         | 82       | %     | 50 - 130  |
|             |                             | Benzo[e]pyrene            | 2013/07/26                  |         | 68       | %     | 50 - 130  |
|             |                             | Chrysene                  | 2013/07/26                  |         | 70       | %     | 50 - 130  |
|             |                             | Dibenz(a,h)anthracene     | 2013/07/26                  |         | 72       | %     | 50 - 130  |
|             |                             | Fluoranthene              | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | Fluorene                  | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | 2-Methylnaphthalene       | 2013/07/26                  |         | 71       | %     | 50 - 130  |
|             |                             | Naphthalene               | 2013/07/26                  |         | 72       | %     | 50 - 130  |
|             |                             | Phenanthrene              | 2013/07/26                  |         | 79       | %     | 50 - 130  |
|             |                             | Perylene                  | 2013/07/26                  |         | 69       | %     | 50 - 130  |
|             |                             | Pyrene                    | 2013/07/26                  |         | 84       | %     | 50 - 130  |
|             | Method Blank                | Quinoline                 | 2013/07/26                  |         | 109      | %     | 50 - 130  |
|             |                             | D10-ANTHRACENE (sur.)     | 2013/07/26                  |         | 108      | %     | 50 - 130  |
|             |                             | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |         | 85       | %     | 50 - 130  |
|             |                             | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |         | 99       | %     | 50 - 130  |
|             |                             | TERPHENYL-D14 (sur.)      | 2013/07/26                  |         | 118      | %     | 50 - 130  |
|             |                             | Acenaphthene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Acenaphthylene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Acridine                  | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                             | Anthracene                | 2013/07/26                  | <0.0040 |          | mg/kg |           |
|             |                             | Benzo(a)anthracene        | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(b&j)fluoranthene    | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(k)fluoranthene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(g,h,i)perylene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(c)phenanthrene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo(a)pyrene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Benzo[e]pyrene            | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Chrysene                  | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Dibenz(a,h)anthracene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Fluoranthene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Fluorene                  | 2013/07/26                  | <0.0050 |          | mg/kg |           |



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| QA/QC Batch | QC Type                     | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value                 | Recovery   | UNITS | QC Limits |       |          |
|-------------|-----------------------------|------------------------|-----------------------------|-----------------------|------------|-------|-----------|-------|----------|
| 7023968 YM1 | Method Blank                | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Perylene               | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | <0.0050               |            | mg/kg |           |       |          |
|             | RPD [GZ1930-01]             | Quinoline              | 2013/07/26                  | <0.010                |            | mg/kg |           |       |          |
|             |                             | Acenaphthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acenaphthylene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Acridine               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Anthracene             | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)anthracene     | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(b&j)fluoranthene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(k)fluoranthene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(g,h,i)perylene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(c)phenanthrene   | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo(a)pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Benzo[e]pyrene         | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Chrysene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Dibenz(a,h)anthracene  | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluoranthene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Fluorene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Indeno(1,2,3-cd)pyrene | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 2-Methylnaphthalene    | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Naphthalene            | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Phenanthrene           | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Perylene               | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Pyrene                 | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | Quinoline              | 2013/07/26                  | NC                    |            | %     | 50        |       |          |
|             |                             | 7024524 KD5            | Matrix Spike                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 86        | %     | 75 - 125 |
|             |                             |                        | Spiked Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 |       | 99        | %     | 90 - 110 |
|             |                             |                        | Method Blank                | Hex. Chromium (Cr 6+) | 2013/07/26 | <0.15 |           | mg/kg |          |
| RPD         | Hex. Chromium (Cr 6+)       |                        | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024579 KD5 | Matrix Spike                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 102        | %     | 75 - 125  |       |          |
|             | QC Standard                 | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             | Spiked Blank                | Soluble Chloride (Cl)  | 2013/07/26                  |                       | 101        | %     | 75 - 125  |       |          |
|             | Method Blank                | Soluble Chloride (Cl)  | 2013/07/26                  | <5.0                  |            | mg/L  |           |       |          |
|             | RPD                         | Soluble Chloride (Cl)  | 2013/07/26                  | NC                    |            | %     | 35        |       |          |
| 7024662 SF3 | Matrix Spike<br>[GZ1946-01] | Total Antimony (Sb)    | 2013/07/26                  |                       | 90         | %     | 75 - 125  |       |          |
|             |                             | Total Arsenic (As)     | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Barium (Ba)      | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Beryllium (Be)   | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Cadmium (Cd)     | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Chromium (Cr)    | 2013/07/26                  |                       | 96         | %     | 75 - 125  |       |          |
|             |                             | Total Cobalt (Co)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Copper (Cu)      | 2013/07/26                  |                       | 92         | %     | 75 - 125  |       |          |
|             |                             | Total Lead (Pb)        | 2013/07/26                  |                       | 88         | %     | 75 - 125  |       |          |
|             |                             | Total Magnesium (Mg)   | 2013/07/26                  |                       | NC         | %     | 75 - 125  |       |          |
|             |                             | Total Mercury (Hg)     | 2013/07/26                  |                       | 91         | %     | 75 - 125  |       |          |
|             |                             | Total Molybdenum (Mo)  | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Nickel (Ni)      | 2013/07/26                  |                       | 95         | %     | 75 - 125  |       |          |
|             |                             | Total Selenium (Se)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Silver (Ag)      | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |
|             |                             | Total Thallium (Tl)    | 2013/07/26                  |                       | 93         | %     | 75 - 125  |       |          |





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC<br>Batch<br>Num Init | QC Type                     | Parameter             | Date<br>Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |          |
|----------------------------|-----------------------------|-----------------------|--------------------------------|--------|----------|-------|-----------|----------|
| 7024662 SF3                | Matrix Spike<br>[GZ1946-01] | Total Tin (Sn)        | 2013/07/26                     |        | 98       | %     | 75 - 125  |          |
|                            |                             | Total Uranium (U)     | 2013/07/26                     |        | 82       | %     | 75 - 125  |          |
|                            |                             | Total Vanadium (V)    | 2013/07/26                     |        | 100      | %     | 75 - 125  |          |
|                            |                             | Total Zinc (Zn)       | 2013/07/26                     |        | 96       | %     | 75 - 125  |          |
|                            | QC Standard                 | Total Arsenic (As)    | 2013/07/26                     |        | 119      | %     | 50 - 150  |          |
|                            |                             | Total Barium (Ba)     | 2013/07/26                     |        | 115      | %     | 69 - 131  |          |
|                            |                             | Total Chromium (Cr)   | 2013/07/26                     |        | 109      | %     | 41 - 159  |          |
|                            |                             | Total Cobalt (Co)     | 2013/07/26                     |        | 104      | %     | 75 - 125  |          |
|                            |                             | Total Copper (Cu)     | 2013/07/26                     |        | 106      | %     | 73 - 127  |          |
|                            |                             | Total Lead (Pb)       | 2013/07/26                     |        | 101      | %     | 54 - 146  |          |
|                            |                             | Total Magnesium (Mg)  | 2013/07/26                     |        | 94       | %     | 69 - 131  |          |
|                            |                             | Total Nickel (Ni)     | 2013/07/26                     |        | 115      | %     | 61 - 139  |          |
|                            |                             | Total Vanadium (V)    | 2013/07/26                     |        | 125      | %     | 50 - 150  |          |
|                            |                             | Total Zinc (Zn)       | 2013/07/26                     |        | 109      | %     | 72 - 128  |          |
|                            | Spiked Blank                | Total Antimony (Sb)   | 2013/07/26                     |        | 92       | %     | 75 - 125  |          |
|                            |                             | Total Arsenic (As)    | 2013/07/26                     |        | 93       | %     | 75 - 125  |          |
|                            |                             | Total Barium (Ba)     | 2013/07/26                     |        | 96       | %     | 75 - 125  |          |
|                            |                             | Total Beryllium (Be)  | 2013/07/26                     |        | 94       | %     | 75 - 125  |          |
|                            |                             | Total Cadmium (Cd)    | 2013/07/26                     |        | 92       | %     | 75 - 125  |          |
|                            |                             | Total Chromium (Cr)   | 2013/07/26                     |        | 92       | %     | 75 - 125  |          |
|                            |                             | Total Cobalt (Co)     | 2013/07/26                     |        | 91       | %     | 75 - 125  |          |
|                            |                             | Total Copper (Cu)     | 2013/07/26                     |        | 91       | %     | 75 - 125  |          |
|                            |                             | Total Lead (Pb)       | 2013/07/26                     |        | 88       | %     | 75 - 125  |          |
|                            |                             | Total Magnesium (Mg)  | 2013/07/26                     |        | 89       | %     | 75 - 125  |          |
|                            |                             | Total Mercury (Hg)    | 2013/07/26                     |        | 88       | %     | 75 - 125  |          |
|                            |                             | Total Molybdenum (Mo) | 2013/07/26                     |        | 95       | %     | 75 - 125  |          |
|                            |                             | Total Nickel (Ni)     | 2013/07/26                     |        | 91       | %     | 75 - 125  |          |
|                            |                             | Total Selenium (Se)   | 2013/07/26                     |        | 92       | %     | 75 - 125  |          |
|                            |                             | Total Silver (Ag)     | 2013/07/26                     |        | 93       | %     | 75 - 125  |          |
|                            |                             | Total Thallium (Tl)   | 2013/07/26                     |        | 94       | %     | 75 - 125  |          |
|                            | Method Blank                | Total Tin (Sn)        | 2013/07/26                     |        |          |       |           | 75 - 125 |
|                            |                             | Total Uranium (U)     | 2013/07/26                     |        |          |       |           | 75 - 125 |
|                            |                             | Total Vanadium (V)    | 2013/07/26                     |        |          |       |           | 75 - 125 |
|                            |                             | Total Zinc (Zn)       | 2013/07/26                     |        |          |       |           | 75 - 125 |
|                            |                             | Total Antimony (Sb)   | 2013/07/26                     |        | <1.0     |       | mg/kg     |          |
|                            |                             | Total Arsenic (As)    | 2013/07/26                     |        | <1.0     |       | mg/kg     |          |
|                            |                             | Total Barium (Ba)     | 2013/07/26                     |        | <10      |       | mg/kg     |          |
|                            |                             | Total Beryllium (Be)  | 2013/07/26                     |        | <0.40    |       | mg/kg     |          |
|                            |                             | Total Cadmium (Cd)    | 2013/07/26                     |        | <0.10    |       | mg/kg     |          |
|                            |                             | Total Chromium (Cr)   | 2013/07/26                     |        | <1.0     |       | mg/kg     |          |
|                            |                             | Total Cobalt (Co)     | 2013/07/26                     |        | <1.0     |       | mg/kg     |          |
|                            |                             | Total Copper (Cu)     | 2013/07/26                     |        | <5.0     |       | mg/kg     |          |
|                            |                             | Total Lead (Pb)       | 2013/07/26                     |        | <1.0     |       | mg/kg     |          |
|                            |                             | Total Magnesium (Mg)  | 2013/07/26                     |        | <100     |       | mg/kg     |          |
| Total Mercury (Hg)         |                             | 2013/07/26            |                                | <0.050 |          | mg/kg |           |          |
| Total Molybdenum (Mo)      |                             | 2013/07/26            |                                | <0.40  |          | mg/kg |           |          |
| Total Nickel (Ni)          |                             | 2013/07/26            |                                | <1.0   |          | mg/kg |           |          |
| Total Selenium (Se)        |                             | 2013/07/26            |                                | <0.50  |          | mg/kg |           |          |
| Total Silver (Ag)          |                             | 2013/07/26            |                                | <1.0   |          | mg/kg |           |          |
| Total Thallium (Tl)        |                             | 2013/07/26            |                                | <0.30  |          | mg/kg |           |          |
| Total Tin (Sn)             | 2013/07/26                  |                       | <1.0                           |        | mg/kg    |       |           |          |
| Total Uranium (U)          | 2013/07/26                  |                       | <1.0                           |        | mg/kg    |       |           |          |
| Total Vanadium (V)         | 2013/07/26                  |                       | <1.0                           |        | mg/kg    |       |           |          |
| Total Zinc (Zn)            | 2013/07/26                  |                       | <10                            |        | mg/kg    |       |           |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 7024662 SF3 | RPD [GZ1946-01] | Total Antimony (Sb)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Arsenic (As)            | 2013/07/26                  | 12.1  |          | %     | 35        |
|             |                 | Total Barium (Ba)             | 2013/07/26                  | 6.0   |          | %     | 35        |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  | 21.1  |          | %     | 35        |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Copper (Cu)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Lead (Pb)               | 2013/07/26                  | 4.3   |          | %     | 35        |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  | 17.1  |          | %     | 35        |
|             |                 | Total Selenium (Se)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Silver (Ag)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Tin (Sn)                | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Uranium (U)             | 2013/07/26                  | NC    |          | %     | 35        |
|             |                 | Total Vanadium (V)            | 2013/07/26                  | 5.8   |          | %     | 35        |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  | NC    |          | %     | 35        |
| 7024739 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 121      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 116      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 112      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 115      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 110      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 108      | %     | 75 - 125  |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  |       | 119      | %     | 78 - 122  |
|             | Spiked Blank    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 99       | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | Method Blank    | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5  |          | mg/L  |           |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0  |          | mg/L  |           |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | <2.5  |          | mg/L  |           |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | <1.3  |          | mg/L  |           |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD             | Soluble Calcium (Ca)          | 2013/07/26                  | 14.5  |          | %     | 35        |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | 12.7  |          | %     | 35        |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  | 3.5   |          | %     | 35        |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  | 5.1   |          | %     | 35        |
|             |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | 7.3   |          | %     | 35        |
| 7024833 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             | [GZ1928-01]     | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       |          |       |           |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10 |          | mg/kg |           |
|             | RPD [GZ1928-01] | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC    |          | %     | 35        |
| 7025101 JSM | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 107      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 105      | %     | 75 - 125  |
|             | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |       | 117      | %     | 75 - 125  |
|             |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |       | 109      | %     | 75 - 125  |
|             |                 | Soluble Sodium (Na)           | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             |                 | Soluble Potassium (K)         | 2013/07/26                  |       | 102      | %     | 75 - 125  |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB362533

| QA/QC Batch | QC Type      | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|--------------|--------------------------|-----------------------------|-------|----------|-------|-----------|
| 7025101 JSM | QC Standard  | Soluble Sulphate (SO4)   | 2013/07/26                  |       | 120      | %     | 78 - 122  |
|             | Spiked Blank | Soluble Calcium (Ca)     | 2013/07/26                  |       | 101      | %     | 75 - 125  |
|             |              | Soluble Magnesium (Mg)   | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             |              | Soluble Sodium (Na)      | 2013/07/26                  |       | 106      | %     | 75 - 125  |
|             |              | Soluble Potassium (K)    | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             |              | Soluble Calcium (Ca)     | 2013/07/26                  | <1.5  |          | mg/L  |           |
|             | Method Blank | Soluble Magnesium (Mg)   | 2013/07/26                  | <1.0  |          | mg/L  |           |
|             |              | Soluble Sodium (Na)      | 2013/07/26                  | <2.5  |          | mg/L  |           |
|             |              | Soluble Potassium (K)    | 2013/07/26                  | <1.3  |          | mg/L  |           |
|             |              | Soluble Sulphate (SO4)   | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             |              | Soluble Calcium (Ca)     | 2013/07/26                  | 28.5  |          | %     | 35        |
|             | RPD          | Soluble Magnesium (Mg)   | 2013/07/26                  | 10.3  |          | %     | 35        |
|             |              | Soluble Sodium (Na)      | 2013/07/26                  | 3.4   |          | %     | 35        |
|             |              | Soluble Potassium (K)    | 2013/07/26                  | 34.3  |          | %     | 35        |
|             |              |                          |                             |       |          |       |           |
| 7025470 KD5 | Matrix Spike | Soluble Chloride (Cl)    | 2013/07/26                  |       | 78       | %     | 75 - 125  |
|             | QC Standard  | Soluble Chloride (Cl)    | 2013/07/26                  |       | 90       | %     | 75 - 125  |
|             | Spiked Blank | Soluble Chloride (Cl)    | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Method Blank | Soluble Chloride (Cl)    | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD          | Soluble Chloride (Cl)    | 2013/07/26                  | 1.8   |          | %     | 35        |
| 7037181 JHC | Matrix Spike | Extractable Barium (Ba)  | 2013/07/31                  |       | NC       | %     | 75 - 125  |
|             | Spiked Blank | Extractable Barium (Ba)  | 2013/07/31                  |       | 89       | %     | 75 - 125  |
|             | Method Blank | Extractable Barium (Ba)  | 2013/07/31                  | <1.0  |          | mg/kg |           |
|             | RPD          | Extractable Barium (Ba)  | 2013/07/31                  | 0.5   |          | %     | 35        |
| 7046467 NC3 | QC Standard  | Total Fusion Barium (Ba) | 2013/08/02                  |       | 108      | %     | 60 - 140  |
|             | Spiked Blank | Total Fusion Barium (Ba) | 2013/08/02                  |       | 96       | %     | 80 - 120  |
|             | Method Blank | Total Fusion Barium (Ba) | 2013/08/02                  | <50   |          | mg/kg |           |
|             | RPD          | Total Fusion Barium (Ba) | 2013/08/02                  | 2.7   |          | %     | 35        |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B362533

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Stephanie Gilbert, Senior Analyst



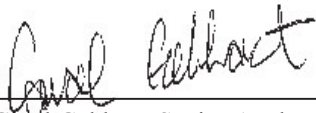
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Poonam Sharma, Senior Analyst, Organics Department



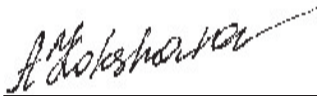
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Daniel Reslan, Volatiles Supervisor



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst



## Validation Signature Page

**Maxxam Job #: B362533**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.







07(1039(3))

Chain of Custody

A134515

Page: 2 of 2

Company: **IEG Consultants Ltd.**  
 Contact: **Nicole Wills**  
 Address: **See page 1**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Contact #s: Ph: **403-827-3048** Cell: \_\_\_\_\_

Report To: **Same as Invoice**  
 Prov: \_\_\_\_\_ PC: \_\_\_\_\_  
 Ph: \_\_\_\_\_ Cell: \_\_\_\_\_

Report Distribution (E-Mail):  
**nwills@kjohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #: \_\_\_\_\_  
 Project # / Name: **A04012A05**  
 Site Location: **Camp Farewell**  
 Quote #: \_\_\_\_\_  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve)  
 Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID | Depth (unit)          | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |     |                                  |                               |                                     | Other Analysis                         |                               |                            |                              |                              | HOLD - Do not Analyze | # of Containers Submitted |       |                               |           |         |                                |                                    |        |  |
|-----------|-----------------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|-----|----------------------------------|-------------------------------|-------------------------------------|--|-------------------------------|----------------------------|------------------------------|------------------------------|-----------------------|---------------------------|-------|-------------------------------|-----------|---------|--------------------------------|------------------------------------|--------|--|
|           |                       |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | PAH | <input type="checkbox"/> BTEX F1 | <input type="checkbox"/> VOCs | <input type="checkbox"/> BTEX F1-F4 | <input type="checkbox"/> Routine Water | <input type="checkbox"/> Turb | <input type="checkbox"/> F | <input type="checkbox"/> TOC | <input type="checkbox"/> DOC |                       |                           | Total | Regulated Metals (CCME / AT1) | Dissolved | Mercury | <input type="checkbox"/> Total | <input type="checkbox"/> Dissolved |        |  |
| 1         | Pile #1 Middle W side | Comp. Soil          | 13/07/19                         | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 2         | Pile #1 Middle E side | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 3         | Pile #2 E side S end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 8 Jars |  |
| 4         | Pile #3 E side N end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 5         | Pile #3 W side S end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 6         | Pile #3 W side N end  | ↓                   | ↓                                | X          | X                 | X                             | X          | X                     | X                       | X   | X                                | X                             | X                                   | X                                      | X                             | X                          | X                            | X                            | X                     | X                         | X     | X                             | X         | X       | X                              | X                                  | 4 Jars |  |
| 7         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    | 4 Jars |  |
| 8         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 9         |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 10        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 11        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |
| 12        |                       |                     |                                  |            |                   |                               |            |                       |                         |     |                                  |                               |                                     |  |                               |                            |                              |                              |                       |                           |       |                               |           |         |                                |                                    |        |  |

Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print): **Nicole Wills Nicole Wills** Date (YY/MM/DD): **13/07/19** Time (24:00): **18:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_

LAB USE ONLY  
 Received By: **BO SU** Date: **20130722** Time: **10:14** Maxxam Job #: **B362533**  
 Custody Seal: **B58** Temperature: **8, 6, 6** Ice: **Present**  
**Absent** **10, 9, 9**  
**6, 4, 4**

Special Instructions: **Please notify when samples are received. Please hold all remaining sample after analysis in case further analysis is needed. Please combine each composite sample (eg. all jars for pile #1 Middle W side mixed before analysis, etc.)**  
 # of Jars Used & Not Submitted: \_\_\_\_\_ Page 40 of 40

## CONFIRMATION-RECEIPT OF SAMPLES FOR ANALYSIS

### Maxxam Job # B363840

Client Project #: A04012A05  
 Site Location: CAMP FAREWELL

28 Samples

Samples Received 2013/07/25  
 Client Confirmation 2013/07/26  
**Expected Report Delivery 2013/07/27 18:00**  
**(Results to be reported early are indicated)**

**Report will be sent to:**

NICOLE WILLS  
 KLOHN CRIPPEN BERGER LTD  
 HOPEWELL PLACE NE  
 CALGARY  
 T1Y 7J7  
 Ph 403-274-3424  
 Fax 403-274-5349  
[NWills@klohn.com](mailto:NWills@klohn.com)

**Invoice will be sent to:**

Accounts Payable  
 IEG CONSULTANTS LTD.  
 500-2618 HOPEWELL PLACE NE  
 CALGARY  
 T1Y 7J7

**We have received the following samples:**

|                                     |                          |              |              |
|-------------------------------------|--------------------------|--------------|--------------|
| <b>TP#1</b>                         | Sampled 2013/07/23 15:30 | COC# A134527 | Matrix: SOIL |
| <hr/>                               |                          |              |              |
| Maxxam #: GZ9436                    | Test Result Delivery Due |              |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM       |              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM       |              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM       |              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM       |              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM       |              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM       |              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM       |              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM       |              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM       |              |              |
| <br>                                |                          |              |              |
| <b>TP#2</b>                         | Sampled 2013/07/23       | COC# A134527 |              |
| <hr/>                               |                          |              |              |
| Maxxam #: GZ9437                    | Test Result Delivery Due |              |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM       |              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM       |              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM       |              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM       |              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM       |              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM       |              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM       |              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM       |              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM       |              |              |
| <br>                                |                          |              |              |
| <b>TP#3</b>                         | Sampled 2013/07/23       | COC# A134527 |              |
| <hr/>                               |                          |              |              |
| Maxxam #: GZ9438                    | Test Result Delivery Due |              |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM       |              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM       |              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM       |              |              |







Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-ILE** Sampled 2013/07/21 COC# A134527

Maxxam #: GZ9447 Test Result Delivery Due

AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-IEB** Sampled 2013/07/21 COC# A134528

Maxxam #: GZ9448 Test Result Delivery Due

AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-IDB** Sampled 2013/07/21 COC# A134528

Maxxam #: GZ9449 Test Result Delivery Due

AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-AW (3M)** Sampled 2013/07/22 COC# A134528

Maxxam #: GZ9453 Test Result Delivery Due

AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Benzo[a]pyrene Equivalency 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 PAH Extraction 2013/07/26 6:00 PM  
 PAH in Soil by GC/MS 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM

Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-AW (7M)**

Sampled 2013/07/22 COC# A134528

Maxxam #: GZ9454 Test Result Delivery Due

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AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-BW (1M)**

Sampled 2013/07/22 COC# A134528

Maxxam #: GZ9455 Test Result Delivery Due

---

AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-BW (6M)**

Sampled 2013/07/22 COC# A134528

Maxxam #: GZ9456 Test Result Delivery Due

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AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM

**EX-13-CW (5M)**

Sampled 2013/07/22 COC# A134528

Maxxam #: GZ9457 Test Result Delivery Due

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AT1 BTEX and F1-F4 in Soil 2013/07/26 6:00 PM  
 Regulated Metals (CCME/AT1) - Soils 2013/07/26 6:00 PM  
 SOIL SALINITY 4 2013/07/26 6:00 PM  
 Acid Digestion for Metals - Soils 2013/07/26 6:00 PM  
 Drying and Grinding 2013/07/26 6:00 PM  
 Environmental Sample Disposal Fee 2013/07/26 6:00 PM  
 Hexavalent Chromium Prep Code 2013/07/26 6:00 PM  
 Sub Sample for Dry Grind 2013/07/26 6:00 PM  
 Sub-sample for metals 2013/07/26 6:00 PM



| <b>EX-13-DW (6M)</b>                | Sampled 2013/07/22              | COC# A134528 |
|-------------------------------------|---------------------------------|--------------|
| <u>Maxxam #: GZ9458</u>             | <u>Test Result Delivery Due</u> |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM              |              |

| <b>EX-13-DN (0-1M)</b>              | Sampled 2013/07/22              | COC# A134528 |
|-------------------------------------|---------------------------------|--------------|
| <u>Maxxam #: GZ9465</u>             | <u>Test Result Delivery Due</u> |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM              |              |

| <b>EX-13-DN (7M)</b>                | Sampled 2013/07/22              | COC# A134528 |
|-------------------------------------|---------------------------------|--------------|
| <u>Maxxam #: GZ9466</u>             | <u>Test Result Delivery Due</u> |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM              |              |

| <b>EX-13-EN (3M)</b>                | Sampled 2013/07/22              | COC# A134528 |
|-------------------------------------|---------------------------------|--------------|
| <u>Maxxam #: GZ9467</u>             | <u>Test Result Delivery Due</u> |              |
| AT1 BTEX and F1-F4 in Soil          | 2013/07/26 6:00 PM              |              |
| Regulated Metals (CCME/AT1) - Soils | 2013/07/26 6:00 PM              |              |
| SOIL SALINITY 4                     | 2013/07/26 6:00 PM              |              |
| Acid Digestion for Metals - Soils   | 2013/07/26 6:00 PM              |              |
| Drying and Grinding                 | 2013/07/26 6:00 PM              |              |
| Environmental Sample Disposal Fee   | 2013/07/26 6:00 PM              |              |
| Hexavalent Chromium Prep Code       | 2013/07/26 6:00 PM              |              |
| Sub Sample for Dry Grind            | 2013/07/26 6:00 PM              |              |
| Sub-sample for metals               | 2013/07/26 6:00 PM              |              |

| <b>EX-13-EN (7M)</b>       | Sampled 2013/07/22              | COC# A134528 |
|----------------------------|---------------------------------|--------------|
| <u>Maxxam #: GZ9468</u>    | <u>Test Result Delivery Due</u> |              |
| AT1 BTEX and F1-F4 in Soil | 2013/07/26 6:00 PM              |              |



- Non-regular samples are flagged as (C) Composite by lab, (H) Hold, or (L) Leachate.
- If there are any problems with the submitted samples, a Sample Integrity Form (SIF) detailing conditions will be included in this confirmation.
- For revisions please contact your Maxxam Project Management team at Ph (780) 577-7100.  
Your Project Manager is: Tanya Eugene

## Maxxam Job # B363840      PARAMETERS FOR ANALYSIS REQUESTED

The values listed below are RDL's and not results. Report Detection Limit (RDL) may be elevated if there are matrix interferences or limited sample amounts.

Maxxam # GZ9436, Sample IDN: **TP#1**  
 Maxxam # GZ9437, Sample IDN: **TP#2**  
 Maxxam # GZ9438, Sample IDN: **TP#3**  
 Maxxam # GZ9439, Sample IDN: **TP#4**  
 Maxxam # GZ9440, Sample IDN: **TP#5**  
 Maxxam # GZ9441, Sample IDN: **TP#17**  
 Maxxam # GZ9442, Sample IDN: **TP#18**  
 Maxxam # GZ9443, Sample IDN: **DS13-001**  
 Maxxam # GZ9444, Sample IDN: **EX-13-ILB**  
 Maxxam # GZ9445, Sample IDN: **EX-13-IJB**  
 Maxxam # GZ9446, Sample IDN: **EX-13-IKE**  
 Maxxam # GZ9447, Sample IDN: **EX-13-ILE**  
 Maxxam # GZ9448, Sample IDN: **EX-13-IEB**  
 Maxxam # GZ9449, Sample IDN: **EX-13-IDB**  
 Maxxam # GZ9453, Sample IDN: **EX-13-AW (3M)**  
 Maxxam # GZ9454, Sample IDN: **EX-13-AW (7M)**  
 Maxxam # GZ9455, Sample IDN: **EX-13-BW (1M)**  
 Maxxam # GZ9456, Sample IDN: **EX-13-BW (6M)**  
 Maxxam # GZ9457, Sample IDN: **EX-13-CW (5M)**  
 Maxxam # GZ9458, Sample IDN: **EX-13-DW (6M)**  
 Maxxam # GZ9465, Sample IDN: **EX-13-DN (0-1M)**  
 Maxxam # GZ9466, Sample IDN: **EX-13-DN (7M)**  
 Maxxam # GZ9467, Sample IDN: **EX-13-EN (3M)**  
 Maxxam # GZ9468, Sample IDN: **EX-13-EN (7M)**  
 Maxxam # GZ9469, Sample IDN: **EX-13-LN (0-1M)**  
 Maxxam # GZ9471, Sample IDN: **EX-13-LN (6M)**  
 Maxxam # HA0382, Sample IDN: **EX-13-1KB(7M)**

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### AT1 BTEX AND F1-F4 IN SOIL

|                           |             |                                   |            |
|---------------------------|-------------|-----------------------------------|------------|
| F2 (C10-C16 Hydrocarbons) | 10 mg/kg    | F3 (C16-C34 Hydrocarbons)         | 50 mg/kg   |
| F4 (C34-C50 Hydrocarbons) | 50 mg/kg    | Reached Baseline at C50           |            |
| F1 (C6-C10) - BTEX        | 12 mg/kg    | (C6-C10)                          | 12 mg/kg   |
| Benzene                   | 0.005 mg/kg | m & p-Xylene                      | 0.04 mg/kg |
| Xylenes (Total)           | 0.04 mg/kg  | Toluene                           | 0.02 mg/kg |
| Ethylbenzene              | 0.01 mg/kg  | o-Xylene                          | 0.02 mg/kg |
| Moisture                  | 0.3 %       | F4G-SG (Heavy Hydrocarbons-Grav.) | 500 mg/kg  |
| SOIL SALINITY 4           |             |                                   |            |
| +Fluoride (F)             | 0.1 mg/kg   | pH                                |            |
| Conductivity              | 0.02 dS/m   | Chloride (Cl)                     | 5 mg/L     |
| Chloride (Cl)             | 1 mg/kg     | Sulphate (SO4)                    | 5 mg/L     |
| Sulphate (SO4)            | 1 mg/kg     | +Bicarbonate (HCO3)               | 1 mg/kg    |
| Anion Sum                 |             | Cation Sum                        |            |
| Ion Balance               | 0.01 N/A    | Cation/EC Ratio                   | 0.1 N/A    |
| Magnesium (Mg)            | 1 mg/L      | Magnesium (Mg)                    | 0.1 mg/kg  |
| Potassium (K)             | 1.3 mg/L    | Potassium (K)                     | 0.2 mg/kg  |
| Sodium (Na)               | 2.5 mg/L    |                                   |            |

## SOIL SALINITY 4

|                                |               |              |           |
|--------------------------------|---------------|--------------|-----------|
| Sodium (Na)                    | 0.1 mg/kg     |              |           |
| Calcium (Ca)                   | 1.5 mg/L      | Calcium (Ca) | 0.1 mg/kg |
| Sodium Adsorption Ratio        | 0.1 N/A       | Saturation % |           |
| Theoretical Gypsum Requirement | 0.1 tonnes/ha |              |           |

## REGULATED METALS (CCME/AT1) - SOILS

|                       |            |                 |           |
|-----------------------|------------|-----------------|-----------|
| Hex. Chromium (Cr 6+) | 0.15 mg/kg | Chromium (Cr)   | 1 mg/kg   |
| Cobalt (Co)           | 1 mg/kg    | Copper (Cu)     | 5 mg/kg   |
| Mercury (Hg)          | 0.05 mg/kg | Lead (Pb)       | 1 mg/kg   |
| Antimony (Sb)         | 1 mg/kg    | Molybdenum (Mo) | 0.4 mg/kg |
| Nickel (Ni)           | 1 mg/kg    | Selenium (Se)   | 0.5 mg/kg |
| Silver (Ag)           | 1 mg/kg    | Arsenic (As)    | 1 mg/kg   |
| Thallium (Tl)         | 0.3 mg/kg  | Tin (Sn)        | 1 mg/kg   |
| Uranium (U)           | 1 mg/kg    | Vanadium (V)    | 1 mg/kg   |
| Zinc (Zn)             | 10 mg/kg   | Barium (Ba)     | 10 mg/kg  |
| Beryllium (Be)        | 0.4 mg/kg  | Boron (B)       | 0.1 mg/kg |
| Cadmium (Cd)          | 0.1 mg/kg  |                 |           |

 Maxxam # GZ9443, Sample IDN: **DS13-001**

## BASIC CLASS II LANDFILL PACKAGE

|                 |          |                |           |
|-----------------|----------|----------------|-----------|
| pH              |          | Free Liquid    |           |
| Benzene         | 10 ug/L  | m & p-Xylene   | 20 ug/L   |
| Xylenes (Total) | 20 ug/L  | Toluene        | 10 ug/L   |
| Ethylbenzene    | 10 ug/L  | o-Xylene       | 10 ug/L   |
| Chromium (Cr)   | 0.5 mg/L | Cobalt (Co)    | 1 mg/L    |
| Copper (Cu)     | 1 mg/L   | Mercury (Hg)   | 0.02 mg/L |
| Iron (Fe)       | 1 mg/L   | Lead (Pb)      | 0.5 mg/L  |
| Antimony (Sb)   | 1 mg/L   | Nickel (Ni)    | 0.5 mg/L  |
| Selenium (Se)   | 0.1 mg/L | Silver (Ag)    | 0.5 mg/L  |
| Arsenic (As)    | 0.5 mg/L | Thallium (Tl)  | 0.5 mg/L  |
| Uranium (U)     | 0.2 mg/L | Vanadium (V)   | 1 mg/L    |
| Zinc (Zn)       | 1 mg/L   | Barium (Ba)    | 1 mg/L    |
| Zirconium (Zr)  | 1 mg/L   | Beryllium (Be) | 0.5 mg/L  |
| Boron (B)       | 1 mg/L   | Cadmium (Cd)   | 0.1 mg/L  |
| Flash point     |          |                |           |

 Maxxam # GZ9453, Sample IDN: **EX-13-AW (3M)**

## BENZO[A]PYRENE EQUIVALENCY

|                            |             |                       |             |
|----------------------------|-------------|-----------------------|-------------|
| Benzo[a]pyrene equivalency | 0.1 mg/kg   |                       |             |
| PAH IN SOIL BY GC/MS       |             |                       |             |
| Quinoline                  | 0.01 mg/kg  | Naphthalene           | 0.005 mg/kg |
| Chrysene                   | 0.005 mg/kg | Benzo(k)fluoranthene  | 0.005 mg/kg |
| Benzo[e]pyrene             | 0.005 mg/kg | Benzo(a)pyrene        | 0.005 mg/kg |
| Perylene                   | 0.005 mg/kg | Acenaphthylene        | 0.005 mg/kg |
| Indeno(1,2,3-cd)pyrene     | 0.005 mg/kg | Dibenz(a,h)anthracene | 0.005 mg/kg |
| 2-Methylnaphthalene        | 0.005 mg/kg | Acenaphthene          | 0.005 mg/kg |
| Fluorene                   | 0.005 mg/kg | Benzo(a)anthracene    | 0.005 mg/kg |
| Phenanthrene               | 0.005 mg/kg | Anthracene            | 0.004 mg/kg |
| Benzo(c)phenanthrene       | 0.005 mg/kg |                       |             |

## PAH IN SOIL BY GC/MS

|                      |             |                        |             |
|----------------------|-------------|------------------------|-------------|
| Fluoranthene         | 0.005 mg/kg |                        |             |
| Benzo(g,h,i)perylene | 0.005 mg/kg | Benzo(b&j)fluoranthene | 0.005 mg/kg |
| Acridine             | 0.01 mg/kg  | Pyrene                 | 0.005 mg/kg |



### Fundamental Laboratory Acceptance Guideline

**Invoice To:**

IEG CONSULTANTS LTD.  
ATTN: Accounts Payable  
500-2618 HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7  
Client Contact:  
NICOLE WILLS

**Report To:**

KLOHN CRIPPEN BERGER LTD  
500-2618  
ATTN: NICOLE WILLS  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

Maxxam Job #: B363840  
Date Received: 2013/07/25  
Your C.O.C. #: A134527  
Your Project #: A04012A05  
Maxxam Project Manager: Tanya Eugene

Bottles in shipment but not listed on Chain of Custody

Labelling issue (missing/incorrect)

**Report Comments**

9. The following extra samples were received:

1 soil bag: EX-13-1GB (7m)

3 x 125ml jar: EX-13-1KG (7m)

As per client, samples in jar are being analyzed for metals, salinity and BTEX F1-F4

11. The following sample containers were labelled differently from the COC:

Samples were labelled as per COC form. Verified with client via email

EX-13-AW (7M) labelled as EX-13-4AW (7M)

EX-13-BW (6M) labelled as EX-13-3BW (6M)

EX-13-CW (5M) labelled as EX-13-2CW (5M)

EX-13-DW (6M) labelled as EX-13-3DW (5M)

EX-13-DN (0-1M) labelled as EX-13-2DN (0-1M)

EX-13-DN (7M) labelled as EX-13-7DN (7M)

EX-13-EN (3M) labelled as EX-13-4EN (3M)

EX-13-EN (7M) labelled as EX-13-7EN (7M)

EX-13-LN (0-1M) labelled as EX-13-2LN (0-1M)

EX-13-LN (6M) labelled as EX-13-6LN (6M)

**Received Date:** 2013/07/25 (Time): 10:23 By: \_\_\_\_\_

**Inspected Date:** \_\_\_\_\_ (Time): \_\_\_\_\_ By: \_\_\_\_\_

**FLAG Created Date:** 2013/07/25 (Time): 14:00 By: AH4



Calgary: 4000 19th St. NE, T2E 6P8. Ph: (403) 291-3077, Fax: (403) 735-2240, Toll free: (800) 386-7247  
 Edmonton: 9331 - 48 Street, T6B 2R4. Ph: (780) 577-7100, Fax: (780) 450-1187, Toll free: (877) 465-8889  
 www.maxxamanalytics.com

Chain of Custody

A134527

07/1220(4)

Page: 1 of 3

Company: **IEG Consultants Ltd**  
 Contact: **Nicole Wills**  
 Address: **2618 Hopewell Place NE**  
 Prov: **Calgary, AB** PC: **T1Y 7J7**  
 Contact #s: Ph: **403.829.3048** Cell:

Report To: **Same as invoice**   
 Prov: PC:  
 Ph: Cell:

Report Distribution (E-Mail):  
**nwills@klohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #:  
 Project # / Name: **A0402A05**  
 Site Location: **Camp Farewell**  
 Quote #:  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve) Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID    | Depth (unit) | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |      |            |            | Other Analysis |      |   |     |     | HOLD - Do not Analyze | # of Containers Submitted |                               |       |           |         |
|--------------|--------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------|------------|------------|----------------|------|---|-----|-----|-----------------------|---------------------------|-------------------------------|-------|-----------|---------|
|              |              |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | VOCs | BTEX F1-F2 | BTEX F1-F4 | Routine Water  | Turb | F | TOC | DOC |                       |                           | Regulated Metals (CCME / AT1) | Total | Dissolved | Mercury |
| 1 TP#1       | 0-0.6m       | Soil                | 13/07/23 15:30                   | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 2 TP#2       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 3 TP#3       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 4 TP#4       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 5 TP#5       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 6 TP#17      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 7 TP#18      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 8 DS13-001   |              |                     | 07-20-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 9 EX-13-1LB  | 7m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 10 EX-13-1JB | 6m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 11 EX-13-1KE | 3.5m         |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 12 EX-13-1LE | 4m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |

Relinquished By (Signature/Print): **Nicole Wills / [Signature]** Date (YY/MM/DD): **13/07/23** Time (24:00): **20:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_  
 Special Instructions: **Please rush the analysis of DS13-001** # of Jars Used & Not Submitted: \_\_\_\_\_

LAB USE ONLY  
 Received By: **Amaida [Signature]** Date: **10/23** Time: **20:30** Maxxam Job #: **B 363840**  
**L'Hirondelle 20130725@**  
 Custody Seal: \_\_\_\_\_ Temperature: \_\_\_\_\_ Ice: \_\_\_\_\_  
 Lab Comments: **14,14,13**  
**15,14,15 > B**  
**absent** **7,6,7 > j**  
**8,5,6 > j**  
**present**









Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/26****CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B363840**  
**Received: 2013/07/25, 10:23**

Sample Matrix: Soil  
# Samples Received: 26

| Analyses                           | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method            | Analytical Method |
|------------------------------------|----------|-------------------|------------------|------------------------------|-------------------|
| BTEX/F1 by HS GC/MS (MeOH extract) | 26       | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | CCME, EPA 8260    |
| BTEX in Leachates by HS GC/MS      | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | EPA 1311/8260C    |
| CCME Hydrocarbons (F2-F4 in soil)  | 26       | 2013/07/25        | 2013/07/25       | AB SOP-00040<br>AB SOP-00036 | CCME PHC-CWS      |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Tanya Eugene

26 Jul 2013 17:54:23 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|---------|--------|---------|
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 46      | 22      | <10     | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | 58      | <50     | <50     | <50     | 61      | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>   |       |         |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024356 |
| Toluene  | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024356 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024356 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024356 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024356 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024356 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024356 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024356 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 100     | 99      | 99      | 101     | 107     | N/A    | 7024356 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 97      | 97      | 99      | 97      | 96      | N/A    | 7024356 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 90      | 93      | 91      | 90      | 92      | N/A    | 7024356 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 100     | 99      | 97      | 100     | 102     | N/A    | 7024356 |
| O-TERPHENYL (sur.)                                       | %     | 104     | 104     | 105     | 96      | 98      | N/A    | 7022792 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |              |                 |              |                 |                  |            |                 |
|---------------|--------------|--------------|-----------------|--------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       |                 | GZ9442       | GZ9443          | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   |                 | 2013/07/23   | 2013/07/20      | 2013/07/21       |            |                 |
| COC Number    |              | A134527      |                 | A134527      | A134527         | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>QC Batch</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |       |       |        |         |
|--|-------|---------|---------|---------|-------|-------|--------|---------|
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 7022792 | 260     | 860   | 530   | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 7022792 | 410     | 790   | 97    | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 7022792 | <50     | 200   | <50   | 50     | 7022792 |
| Reached Baseline at C50                                  | mg/kg | Yes     | 7022792 | Yes     | Yes   | Yes   | N/A    | 7022792 |
| <b>Volatiles</b>   |       |         |         |         |       |       |        |         |
| Benzene  | mg/kg | <0.0050 | 7024356 | <0.0050 | 0.059 | 0.018 | 0.0050 | 7024383 |
| Toluene  | mg/kg | <0.020  | 7024356 | <0.020  | 0.83  | 0.12  | 0.020  | 7024383 |
| Ethylbenzene   | mg/kg | <0.010  | 7024356 | <0.010  | 0.38  | 0.12  | 0.010  | 7024383 |
| Xylenes (Total)  | mg/kg | <0.040  | 7024356 | <0.040  | 4.5   | 3.9   | 0.040  | 7024383 |
| m & p-Xylene   | mg/kg | <0.040  | 7024356 | <0.040  | 2.9   | 0.95  | 0.040  | 7024383 |
| o-Xylene   | mg/kg | <0.020  | 7024356 | <0.020  | 1.7   | 3.0   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 7024356 | <12     | 100   | 200   | 12     | 7024383 |
| (C6-C10)   | mg/kg | <12     | 7024356 | <12     | 110   | 210   | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |       |       |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 112     | 7024356 | 102     | 114   | 108   | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 97      | 7024356 | 100     | 78    | 80    | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 106     | 7024356 | 120     | 124   | 127   | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 100     | 7024356 | 106     | 110   | 109   | N/A    | 7024383 |
| O-TERPHENYL (sur.)                                       | %     | 98      | 7022792 | 106     | 111   | 100   | N/A    | 7022792 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |       |       |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                  |                  |                  |                  |                  |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           | GZ9449           |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>EX-13-IDB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Ext. Pet. Hydrocarbon</b>  |       |       |         |        |         |         |        |         |
|-------------------------------|-------|-------|---------|--------|---------|---------|--------|---------|
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 2500  | 400     | 810    | <10     | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 970   | <50     | 100    | <50     | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | 380   | <50     | <50    | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes   | Yes     | Yes    | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |       |         |        |         |         |        |         |
| Benzene                       | mg/kg | 0.069 | <0.0050 | 0.0090 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | 1.2   | 0.026   | 0.062  | <0.020  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | 1.4   | 0.022   | 0.026  | 0.014   | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | 22    | 0.27    | 0.33   | 0.15    | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | 13    | 0.083   | 0.22   | 0.095   | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | 9.1   | 0.19    | 0.11   | 0.054   | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | 370   | 380     | 13     | <12     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | 400   | 380     | 14     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |       |         |        |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 110   | 106     | 102    | 107     | 108     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 78    | 98      | 91     | 89      | 100     | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121   | 176 (1) | 120    | 120     | 121     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105   | 106     | 100    | 103     | 105     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 114   | 99      | 100    | 101     | 98      | N/A    | 7022792 |

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Surrogate recovery exceeds acceptance criteria due to matrix interference. Reanalysis yields similar results.

Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                          |                          |                          |                          |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   | GZ9454                   | GZ9455                   | GZ9456                   | GZ9457                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  | A134528                  | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>EX-13-AW<br/>(7M)</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(6M)</b> | <b>EX-13-CW<br/>(5M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |       |         |        |         |        |         |        |         |
|--|-------|---------|--------|---------|--------|---------|--------|---------|
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |        |         |        |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | <10    | <10     | <10    | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | <50    | 60      | <50    | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50    | <50     | <50    | <50     | 50     | 7022792 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes    | Yes     | Yes    | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>   |       |         |        |         |        |         |        |         |
| Benzene  | mg/kg | <0.0050 | 0.061  | <0.0050 | 0.0084 | <0.0050 | 0.0050 | 7024383 |
| Toluene  | mg/kg | <0.020  | 0.080  | <0.020  | <0.020 | <0.020  | 0.020  | 7024383 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010 | <0.010  | <0.010 | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040 | <0.040  | <0.040 | <0.040  | 0.040  | 7024383 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040 | <0.040  | <0.040 | <0.040  | 0.040  | 7024383 |
| o-Xylene   | mg/kg | <0.020  | <0.020 | <0.020  | <0.020 | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12    | <12     | <12    | <12     | 12     | 7024383 |
| (C6-C10)   | mg/kg | <12     | <12    | <12     | <12    | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b>                            |       |         |        |         |        |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 104     | 104    | 106     | 110    | 106     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 94      | 97     | 96      | 96     | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 114     | 93     | 95      | 97     | 93      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 87      | 101    | 99      | 100    | 94      | N/A    | 7024383 |
| O-TERPHENYL (sur.)                                       | %     | 91      | 104    | 109     | 105    | 108     | N/A    | 7022792 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |        |         |        |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                 |                            |                          |                          |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------------|--------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9458                   |                 | GZ9465                     | GZ9466                   | GZ9467                   |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/22                 | 2013/07/22               | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |                 | A134528                    | A134528                  | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|---------|--------|---------|
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 7022792 | <10     | <10     | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 7022792 | <50     | <50     | <50     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 7022792 | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50                                  | mg/kg | Yes     | 7022792 | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>   |       |         |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | 7024383 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene  | mg/kg | <0.020  | 7024383 | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene   | mg/kg | <0.010  | 7024383 | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)  | mg/kg | <0.040  | 7024383 | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene   | mg/kg | <0.040  | 7024383 | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene   | mg/kg | <0.020  | 7024383 | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 7024383 | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)   | mg/kg | <12     | 7024383 | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 109     | 7024383 | 100     | 108     | 101     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 95      | 7024383 | 94      | 95      | 97      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 94      | 7024383 | 91      | 92      | 93      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 97      | 7024383 | 94      | 95      | 101     | N/A    | 7024383 |
| O-TERPHENYL (sur.)                                       | %     | 97      | 7022792 | 106     | 95      | 117     | N/A    | 7021306 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/26

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                            |                          |            |                 |
|---------------|--------------|--------------------------|----------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9468                   | GZ9469                     | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134516                    | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(7M)</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |        |         |
|--|-------|---------|---------|---------|--------|---------|
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | 12      | <10     | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | 100     | 230     | <50     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>   |       |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene  | mg/kg | <0.020  | 0.037   | <0.020  | 0.020  | 7024383 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 112     | 111     | 103     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 95      | 95      | 96      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 95      | 89      | 95      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 97      | 109     | 102     | N/A    | 7024383 |
| O-TERPHENYL (sur.)                                       | %     | 108     | 102     | 102     | N/A    | 7021306 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Volatiles</b>   |      |     |     |         |
|--|------|-----|-----|---------|
| Leachable (ZH) Benzene                                   | ug/L | <10 | 10  | 7024500 |
| Leachable (ZH) Toluene                                   | ug/L | 18  | 10  | 7024500 |
| Leachable (ZH) Ethylbenzene                              | ug/L | <10 | 10  | 7024500 |
| Leachable (ZH) o-Xylene                                  | ug/L | 53  | 10  | 7024500 |
| Leachable (ZH) m & p-Xylene                              | ug/L | 80  | 20  | 7024500 |
| Leachable (ZH) Xylenes (Total)                           | ug/L | 130 | 20  | 7024500 |
| <b>Surrogate Recovery (%)</b>                            |      |     |     |         |
| Leachable (ZH) 1,4-Difluorobenzene (sur.)                | %    | 91  | N/A | 7024500 |
| Leachable (ZH) 4-BROMOFLUOROBENZENE (sur.)               | %    | 98  | N/A | 7024500 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE (sur.)              | %    | 87  | N/A | 7024500 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |      |     |     |         |

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
Report Date: 2013/07/26

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 6.3°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

### Quality Assurance Report

Maxxam Job Number: EB363840

| QA/QC Batch | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|-------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7021306 JR1 | Matrix Spike                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 101      | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 114      | %     | 50 - 130  |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 117      | %     | 50 - 130  |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 116      | %     | 50 - 130  |          |
|             | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 95       | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |
|             | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 104      | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | <10        |          | mg/kg |           |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             | RPD                          | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              |                              |                             |            |          |       |           |          |
| 7022792 JR1 | Matrix Spike<br>[GZ9455-01]  | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 89       | %     | 50 - 130  |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 88       | %     | 50 - 130  |          |
|             | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 92       | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  |            | 105      | %     | 70 - 130  |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|             | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/25                  |            | 94       | %     | 50 - 130  |          |
|             |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | <10        |          | mg/kg |           |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             | RPD [GZ9454-01]              | F2 (C10-C16 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/25                  | NC         |          | %     | 50        |          |
|             |                              |                              |                             |            |          |       |           |          |
| 7024356 NSE | Matrix Spike                 | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |            | 105      | %     | 60 - 140  |          |
|             |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |            | 102      | %     | 60 - 140  |          |
|             |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |            | 101      | %     | 60 - 130  |          |
|             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |            | 105      | %     | 60 - 140  |          |
|             |                              | Benzene                      | 2013/07/26                  |            | 101      | %     | 60 - 140  |          |
|             |                              | Toluene                      | 2013/07/26                  |            | 97       | %     | 60 - 140  |          |
|             |                              | Ethylbenzene                 | 2013/07/26                  |            | 96       | %     | 60 - 140  |          |
|             |                              | m & p-Xylene                 | 2013/07/26                  |            | 100      | %     | 60 - 140  |          |
|             |                              | o-Xylene                     | 2013/07/26                  |            | 99       | %     | 60 - 140  |          |
|             |                              | (C6-C10)                     | 2013/07/26                  |            | 104      | %     | 60 - 140  |          |
|             |                              | Spiked Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/26 |          | 92    | %         | 60 - 140 |
|             |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/26 |          | 90    | %         | 60 - 140 |
|             | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/26                  |            | 86       | %     | 60 - 130  |          |
|             | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/26                  |            | 96       | %     | 60 - 140  |          |
|             | Benzene                      |                              | 2013/07/26                  |            | 87       | %     | 60 - 140  |          |
|             | Toluene                      |                              | 2013/07/26                  |            | 85       | %     | 60 - 140  |          |
|             | Ethylbenzene                 |                              | 2013/07/26                  |            | 84       | %     | 60 - 140  |          |
|             | m & p-Xylene                 |                              | 2013/07/26                  |            | 87       | %     | 60 - 140  |          |
|             | o-Xylene                     |                              | 2013/07/26                  |            | 86       | %     | 60 - 140  |          |
|             | (C6-C10)                     |                              | 2013/07/26                  |            | 103      | %     | 60 - 140  |          |
|             | Method Blank                 |                              | 1,4-Difluorobenzene (sur.)  | 2013/07/26 |          | 95    | %         | 60 - 140 |
|             |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/26 |          | 107   | %         | 60 - 140 |
|             |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |            | 109      | %     | 60 - 130  |          |
|             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |            | 88       | %     | 60 - 140  |          |
|             |                              |                              |                             |            |          |       |           |          |
|             |                              |                              |                             |            |          |       |           |          |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch     | QC Type                     | Parameter                    | Date Analyzed<br>yyyy/mm/dd  | Value      | Recovery | UNITS    | QC Limits |          |
|-----------------|-----------------------------|------------------------------|------------------------------|------------|----------|----------|-----------|----------|
| 7024356 NSE     | Method Blank                | Benzene                      | 2013/07/26                   | <0.0050    |          | mg/kg    |           |          |
|                 |                             | Toluene                      | 2013/07/26                   | <0.020     |          | mg/kg    |           |          |
|                 |                             | Ethylbenzene                 | 2013/07/26                   | <0.010     |          | mg/kg    |           |          |
|                 |                             | Xylenes (Total)              | 2013/07/26                   | <0.040     |          | mg/kg    |           |          |
|                 |                             | m & p-Xylene                 | 2013/07/26                   | <0.040     |          | mg/kg    |           |          |
|                 |                             | o-Xylene                     | 2013/07/26                   | <0.020     |          | mg/kg    |           |          |
|                 |                             | F1 (C6-C10) - BTEX           | 2013/07/26                   | <12        |          | mg/kg    |           |          |
|                 |                             | (C6-C10)                     | 2013/07/26                   | <12        |          | mg/kg    |           |          |
|                 | RPD                         | Benzene                      | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Toluene                      | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Ethylbenzene                 | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Xylenes (Total)              | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | m & p-Xylene                 | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | o-Xylene                     | 2013/07/26                   | NC         |          | %        | 50        |          |
| 7024383 CG7     | Matrix Spike<br>[GZ9453-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/26                   |            | 107      | %        | 60 - 140  |          |
|                 |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                   |            | 95       | %        | 60 - 140  |          |
|                 |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                   |            | 110      | %        | 60 - 130  |          |
|                 |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                   |            | 89       | %        | 60 - 140  |          |
|                 |                             | Benzene                      | 2013/07/26                   |            | 103      | %        | 60 - 140  |          |
|                 |                             | Toluene                      | 2013/07/26                   |            | 98       | %        | 60 - 140  |          |
|                 |                             | Ethylbenzene                 | 2013/07/26                   |            | 94       | %        | 60 - 140  |          |
|                 |                             | m & p-Xylene                 | 2013/07/26                   |            | 97       | %        | 60 - 140  |          |
|                 |                             | o-Xylene                     | 2013/07/26                   |            | 95       | %        | 60 - 140  |          |
|                 |                             | (C6-C10)                     | 2013/07/26                   |            | 91       | %        | 60 - 140  |          |
|                 |                             | Spiked Blank                 | 1,4-Difluorobenzene (sur.)   | 2013/07/26 |          | 104      | %         | 60 - 140 |
|                 |                             |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26 |          | 100      | %         | 60 - 140 |
|                 |                             |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/26 |          | 129      | %         | 60 - 130 |
|                 |                             |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26 |          | 101      | %         | 60 - 140 |
| Benzene         | 2013/07/26                  |                              |                              | 102        | %        | 60 - 140 |           |          |
| Toluene         | 2013/07/26                  |                              |                              | 97         | %        | 60 - 140 |           |          |
| Method Blank    | Ethylbenzene                | 2013/07/26                   |                              | 96         | %        | 60 - 140 |           |          |
|                 | m & p-Xylene                | 2013/07/26                   |                              | 95         | %        | 60 - 140 |           |          |
|                 | o-Xylene                    | 2013/07/26                   |                              | 94         | %        | 60 - 140 |           |          |
|                 | (C6-C10)                    | 2013/07/26                   |                              | 92         | %        | 60 - 140 |           |          |
|                 | 1,4-Difluorobenzene (sur.)  | 2013/07/26                   |                              | 100        | %        | 60 - 140 |           |          |
|                 | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/26                   |                              | 101        | %        | 60 - 140 |           |          |
| RPD [GZ9449-01] | Method Blank                | D10-ETHYLBENZENE (sur.)      | 2013/07/26                   |            | 122      | %        | 60 - 130  |          |
|                 |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                   |            | 105      | %        | 60 - 140  |          |
|                 |                             | Benzene                      | 2013/07/26                   | <0.0050    |          | mg/kg    |           |          |
|                 |                             | Toluene                      | 2013/07/26                   | <0.020     |          | mg/kg    |           |          |
|                 |                             | Ethylbenzene                 | 2013/07/26                   | <0.010     |          | mg/kg    |           |          |
|                 |                             | Xylenes (Total)              | 2013/07/26                   | <0.040     |          | mg/kg    |           |          |
|                 | RPD [GZ9449-01]             | m & p-Xylene                 | 2013/07/26                   | <0.040     |          | mg/kg    |           |          |
|                 |                             | o-Xylene                     | 2013/07/26                   | <0.020     |          | mg/kg    |           |          |
|                 |                             | F1 (C6-C10) - BTEX           | 2013/07/26                   | <12        |          | mg/kg    |           |          |
|                 |                             | (C6-C10)                     | 2013/07/26                   | <12        |          | mg/kg    |           |          |
|                 |                             | Benzene                      | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Toluene                      | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Ethylbenzene                 | 2013/07/26                   | NC         |          | %        | 50        |          |
|                 |                             | Xylenes (Total)              | 2013/07/26                   | NC         |          | %        | 50        |          |
| m & p-Xylene    | 2013/07/26                  | NC                           |                              | %          | 50       |          |           |          |
| o-Xylene        | 2013/07/26                  | NC                           |                              | %          | 50       |          |           |          |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch | QC Type | Parameter       | Date Analyzed<br>yyyy/mm/dd               | Value      | Recovery | UNITS | QC Limits |          |
|-------------|---------|-----------------|---|------------|----------|-------|-----------|----------|
| 7024383     | CG7     | RPD [GZ9449-01] | F1 (C6-C10) - BTEX (C6-C10)               | 2013/07/26 | NC       | %     | 50        |          |
| 7024500     | NSE     | Matrix Spike    | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 | NC       | %     | 50        |          |
|             |         |                 | Leachable (ZH) 4-BROMOFLUOROBENZEN        | 2013/07/26 |          | 95    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26 |          | 102   | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Benzene                    | 2013/07/26 |          | 84    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Toluene                    | 2013/07/26 |          | 83    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Ethylbenzene               | 2013/07/26 |          | 81    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) o-Xylene                   | 2013/07/26 |          | 93    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) m & p-Xylene               | 2013/07/26 |          | 91    | %         | 70 - 130 |
|             |         | Spiked Blank    | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |          | 90    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) 4-BROMOFLUOROBENZEN        | 2013/07/26 |          | 100   | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26 |          | 95    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Benzene                    | 2013/07/26 |          | 77    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Toluene                    | 2013/07/26 |          | 82    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Ethylbenzene               | 2013/07/26 |          | 83    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) o-Xylene                   | 2013/07/26 |          | 91    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) m & p-Xylene               | 2013/07/26 |          | 87    | %         | 70 - 130 |
|             |         | Method Blank    | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |          | 99    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) 4-BROMOFLUOROBENZEN        | 2013/07/26 |          | 101   | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26 |          | 98    | %         | 70 - 130 |
|             |         |                 | Leachable (ZH) Benzene                    | 2013/07/26 | <10      |       | ug/L      |          |
|             |         |                 | Leachable (ZH) Toluene                    | 2013/07/26 | <10      |       | ug/L      |          |
|             |         |                 | Leachable (ZH) Ethylbenzene               | 2013/07/26 | <10      |       | ug/L      |          |
|             |         |                 | Leachable (ZH) o-Xylene                   | 2013/07/26 | <10      |       | ug/L      |          |
|             |         |                 | Leachable (ZH) m & p-Xylene               | 2013/07/26 | <20      |       | ug/L      |          |
|             |         |                 | Leachable (ZH) Xylenes (Total)            | 2013/07/26 | <20      |       | ug/L      |          |
|             |         | RPD             | Leachable (ZH) Benzene                    | 2013/07/26 | NC       |       | %         | 50       |
|             |         |                 | Leachable (ZH) Toluene                    | 2013/07/26 | NC       |       | %         | 50       |
|             |         |                 | Leachable (ZH) Ethylbenzene               | 2013/07/26 | NC       |       | %         | 50       |
|             |         |                 | Leachable (ZH) o-Xylene                   | 2013/07/26 | NC       |       | %         | 50       |
|             |         |                 | Leachable (ZH) m & p-Xylene               | 2013/07/26 | NC       |       | %         | 50       |
|             |         |                 | Leachable (ZH) Xylenes (Total)            | 2013/07/26 | NC       |       | %         | 50       |

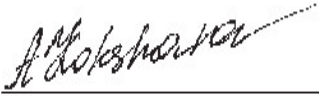
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page


Maxxam Job #: B363840

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



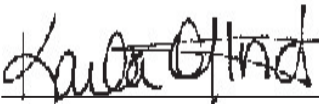
Anna Koksharova, Senior Analyst



Carol Gebhart, Senior Analyst



Daniel Reslan, Volatiles Supervisor



Karla Offord, Supervisor, Extractable Hydrocarbons

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





Calgary: 4000 19th St. NE, T2E 6P8. Ph: (403) 291-3077, Fax: (403) 735-2240, Toll free: (800) 386-7247  
 Edmonton: 9331 - 48 Street, T6B 2R4. Ph: (780) 577-7100, Fax: (780) 450-1187, Toll free: (877) 465-8889  
 www.maxxamanalytics.com

Chain of Custody

A134527

07/1220(4)

Page: 1 of 3

Company: **IEG Consultants Ltd**  
 Contact: **Nicole Wills**  
 Address: **2618 Hopewell Place NE**  
 Prov: **Calgary, AB** PC: **T1Y 7J7**  
 Contact #s: Ph: **403.829.3048** Cell:

Report To: **Same as invoice**   
 Prov: PC:  
 Ph: Cell:

Report Distribution (E-Mail):  
**nwills@klohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #:  
 Project # / Name: **A0402A05**  
 Site Location: **Camp Farewell**  
 Quote #:  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve) Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID    | Depth (unit) | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |      |            |            | Other Analysis |      |   |     |     | HOLD - Do not Analyze | # of Containers Submitted |                               |       |           |         |
|--------------|--------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------|------------|------------|----------------|------|---|-----|-----|-----------------------|---------------------------|-------------------------------|-------|-----------|---------|
|              |              |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | VOCs | BTEX F1-F2 | BTEX F1-F4 | Routine Water  | Turb | F | TOC | DOC |                       |                           | Regulated Metals (CCME / AT1) | Total | Dissolved | Mercury |
| 1 TP#1       | 0-0.6m       | Soil                | 13/07/23 15:30                   | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 2 TP#2       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 3 TP#3       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 4 TP#4       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 5 TP#5       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 6 TP#17      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 7 TP#18      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         | 35/1B   |
| 8 DS13-001   |              |                     | 07-20-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 9 EX-13-1LB  | 7m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 10 EX-13-1JB | 6m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 11 EX-13-1KE | 3.5m         |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |
| 12 EX-13-1LE | 4m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X                             | X     | X         |         |

Relinquished By (Signature/Print): **Nicole Wills / [Signature]** Date (YY/MM/DD): **13/07/23** Time (24:00): **20:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_  
 Special Instructions: **Please rush the analysis of DS13-001** # of Jars Used & Not Submitted: \_\_\_\_\_

LAB USE ONLY  
 Received By: **Amaida [Signature]** Date: **07/10/23** Time: **10:23** Maxxam Job #: **B 363840**  
**L'Hirondelle 20130725@**  
 Custody Seal: \_\_\_\_\_ Temperature: \_\_\_\_\_ Ice: \_\_\_\_\_  
 Lab Comments: **14,14,13**  
**15,14,15 > B**  
**absent** **7,6,7 > j**  
**8,5,6 > j**  
**present**









Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/27**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B363840**  
**Received: 2013/07/25, 10:23**

Sample Matrix: Soil  
 # Samples Received: 26

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method            | Analytical Method |
|--|----------|-------------------|------------------|------------------------------|-------------------|
| Boron (Hot Water Soluble)              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00042                 | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 26       | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | CCME, EPA 8260    |
| BTEX in Leachates by HS GC/MS          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | EPA 1311/8260C    |
| Cation/EC Ratio                        | 26       | N/A               | 2013/07/26       |                              | CALCULATION       |
| Chloride (Soluble)                     | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00020                 | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 26       | 2013/07/25        | 2013/07/26       | EENVSOP-00131                | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00004                 | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 26       | 2013/07/25        | 2013/07/25       | AB SOP-00040<br>AB SOP-00036 | CCME PHC-CWS      |
| Flash Point                            | 1        | N/A               | 2013/07/26       | AB SOP-00062                 | ASTM D3828-12 A   |
| ICPMS Metals on TCLP Leachate          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00043                 | EPA 200.8         |
| Elements by ICPMS - Soils              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00043                 | EPA 200.8         |
| Ion Balance                            | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SM 1030E          |
| Sum of Cations, Anions                 | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SM 1030E          |
| Moisture                               | 26       | N/A               | 2013/07/26       | AB SOP-00002                 | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 1        | N/A               | 2013/07/27       | AB SOP-00003                 | EPA 8270D         |
| PAH in Soil by GC/MS                   | 1        | 2013/07/25        | 2013/07/27       | AB SOP-00003<br>AB SOP-00036 | EPA 3540C/8270D   |
| Free Liquid (Paint filter)             | 1        | N/A               | 2013/07/26       | AB SOP-00047                 | EPA SW846/9095B   |
| pH @25C (1:2 Calcium Chloride Extract) | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00006                 | SSMA 16.3         |
| pH @25C (1:1 extract, solid waste)     | 1        | 2013/07/26        | 2013/07/26       | AB SOP-00006                 | SSMA 16.2         |
| Sodium Adsorption Ratio                | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00042                 | EPA 200.7         |
| Soluble Paste                          | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00033                 | SSMA 15.2         |
| Soluble Ions Calculation               | 26       | N/A               | 2013/07/26       |                              | CALCULATION       |
| Theoretical Gypsum Requirement (1)     | 26       | N/A               | 2013/07/26       | CAL WI-00087                 | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/27**

**CERTIFICATE OF ANALYSIS**

-2-

Encryption Key



Tanya Eugene

27 Jul 2013 17:56:12 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
Email: TEugine@maxxam.ca  
Phone# (780) 577-7144

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture   | %     | 5.3     | 3.5     | 3.7     | 4.1     | 3.1     | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 46      | 22      | <10     | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | 58      | <50     | <50     | <50     | 61      | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>   |       |         |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024356 |
| Toluene  | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024356 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024356 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024356 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024356 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024356 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024356 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024356 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 100     | 99      | 99      | 101     | 107     | N/A    | 7024356 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 97      | 97      | 99      | 97      | 96      | N/A    | 7024356 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 90      | 93      | 91      | 90      | 92      | N/A    | 7024356 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 100     | 99      | 97      | 100     | 102     | N/A    | 7024356 |
| O-TERPHENYL (sur.)                                       | %     | 104     | 104     | 105     | 96      | 98      | N/A    | 7022792 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |              |                 |              |                 |                  |            |                 |
|---------------|--------------|--------------|-----------------|--------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       |                 | GZ9442       | GZ9443          | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   |                 | 2013/07/23   | 2013/07/20      | 2013/07/21       |            |                 |
| COC Number    |              | A134527      |                 | A134527      | A134527         | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>QC Batch</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |       |       |        |         |
|-------------------------------|-------|---------|---------|---------|-------|-------|--------|---------|
| Moisture                      | %     | 2.4     | 7024996 | 5.0     | 22    | 13    | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |       |       |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 7022792 | 260     | 860   | 530   | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | 7022792 | 410     | 790   | 97    | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | 7022792 | <50     | 200   | <50   | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | 7022792 | Yes     | Yes   | Yes   | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |       |       |        |         |
| Benzene                       | mg/kg | <0.0050 | 7024356 | <0.0050 | 0.059 | 0.018 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | 7024356 | <0.020  | 0.83  | 0.12  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | 7024356 | <0.010  | 0.38  | 0.12  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | 7024356 | <0.040  | 4.5   | 3.9   | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | 7024356 | <0.040  | 2.9   | 0.95  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | 7024356 | <0.020  | 1.7   | 3.0   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | 7024356 | <12     | 100   | 200   | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | 7024356 | <12     | 110   | 210   | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |       |       |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 112     | 7024356 | 102     | 114   | 108   | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 7024356 | 100     | 78    | 80    | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 106     | 7024356 | 120     | 124   | 127   | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 100     | 7024356 | 106     | 110   | 109   | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | 7022792 | 106     | 111   | 100   | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                  |                  |                  |                  |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |       |         |        |         |        |         |
|-------------------------------|-------|-------|---------|--------|---------|--------|---------|
| Moisture                      | %     | 17    | 8.3     | 6.6    | 13      | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |       |         |        |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 2500  | 400     | 810    | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 970   | <50     | 100    | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | 380   | <50     | <50    | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes   | Yes     | Yes    | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |       |         |        |         |        |         |
| Benzene                       | mg/kg | 0.069 | <0.0050 | 0.0090 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | 1.2   | 0.026   | 0.062  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | 1.4   | 0.022   | 0.026  | 0.014   | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | 22    | 0.27    | 0.33   | 0.15    | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | 13    | 0.083   | 0.22   | 0.095   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | 9.1   | 0.19    | 0.11   | 0.054   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | 370   | 380     | 13     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | 400   | 380     | 14     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |       |         |        |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 110   | 106     | 102    | 107     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 78    | 98      | 91     | 89      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121   | 176 (1) | 120    | 120     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105   | 106     | 100    | 103     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 114   | 99      | 100    | 101     | N/A    | 7022792 |

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Surrogate recovery exceeds acceptance criteria due to matrix interference. Reanalysis yields similar results.

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9449           | GZ9453               | GZ9454               | GZ9455               | GZ9456               |            |                 |
|---------------|--------------|------------------|----------------------|----------------------|----------------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/21       | 2013/07/22           | 2013/07/22           | 2013/07/22           | 2013/07/22           |            |                 |
| COC Number    |              | A134528          | A134528              | A134528              | A134528              | A134528              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IDB</b> | <b>EX-13-AW (3M)</b> | <b>EX-13-AW (7M)</b> | <b>EX-13-BW (1M)</b> | <b>EX-13-BW (6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |        |         |        |        |         |
|-------------------------------|-------|---------|---------|--------|---------|--------|--------|---------|
| Moisture                      | %     | 14      | 13      | 12     | 14      | 23     | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |        |         |        |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10    | <10     | <10    | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50    | 60      | <50    | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50    | <50     | <50    | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes    | Yes     | Yes    | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |        |         |        |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | 0.061  | <0.0050 | 0.0084 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | 0.080  | <0.020  | <0.020 | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010 | <0.010  | <0.010 | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040 | <0.040  | <0.040 | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040 | <0.040  | <0.040 | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020 | <0.020  | <0.020 | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12    | <12     | <12    | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12    | <12     | <12    | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |        |         |        |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108     | 104     | 104    | 106     | 110    | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 94      | 97     | 96      | 96     | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121     | 114     | 93     | 95      | 97     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105     | 87      | 101    | 99      | 100    | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | 91      | 104    | 109     | 105    | N/A    | 7022792 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                          |                 |                            |                          |            |                 |
|---------------|--------------|--------------------------|--------------------------|-----------------|----------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9457                   | GZ9458                   |                 | GZ9465                     | GZ9466                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               |                 | 2013/07/22                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134528                  |                 | A134528                    | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-CW<br/>(5M)</b> | <b>EX-13-DW<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 13      | 21      | 7025403 | 3.2     | 17      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 7022792 | <10     | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | 7022792 | <50     | <50     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | 7022792 | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | 7022792 | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | 7024383 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | 7024383 | <0.020  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 7024383 | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | 7024383 | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | 7024383 | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | 7024383 | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | 7024383 | <12     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | 7024383 | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 109     | 7024383 | 100     | 108     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 95      | 95      | 7024383 | 94      | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 93      | 94      | 7024383 | 91      | 92      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 94      | 97      | 7024383 | 94      | 95      | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 108     | 97      | 7022792 | 106     | 95      | N/A    | 7021306 |

 N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                          |                            |                          |            |                 |
|---------------|--------------|--------------------------|--------------------------|----------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9467                   | GZ9468                   | GZ9469                     | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134516                    | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |         |         |        |         |
|--|-------|---------|---------|---------|---------|--------|---------|
| Moisture   | %     | 4.7     | 27      | 25      | 6.7     | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 12      | <10     | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 100     | 230     | <50     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50                                  | mg/kg | Yes     | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>   |       |         |         |         |         |        |         |
| Benzene  | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene  | mg/kg | <0.020  | <0.020  | 0.037   | <0.020  | 0.020  | 7024383 |
| Ethylbenzene   | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene   | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene   | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)   | mg/kg | <12     | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 101     | 112     | 111     | 103     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 97      | 95      | 95      | 96      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 93      | 95      | 89      | 95      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 101     | 97      | 109     | 102     | N/A    | 7024383 |
| O-TERPHENYL (sur.)                                       | %     | 117     | 108     | 102     | 102     | N/A    | 7021306 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |         |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                     |            |                 |             |            |             |            |                 |
|---------------|--------------|---------------------|------------|-----------------|-------------|------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              |            |                 | GZ9437      |            | GZ9438      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 |            |                 | 2013/07/23  |            | 2013/07/23  |            |                 |
| COC Number    |              | A134527             |            |                 | A134527     |            | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>RDL</b> | <b>QC Batch</b> | <b>TP#2</b> | <b>RDL</b> | <b>TP#3</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |         |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|---------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 7022359 | 2.2   | N/A   | 0.49  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.5   | N/A   | 7022359 | 3.4   | N/A   | 1.2   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 7021708 | 11    | 0.10  | 12    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.0   | 0.010 | 7022358 | 1.5   | 0.010 | 2.5   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.60  | 7020006 | 12    | 0.50  | 2.3   | 0.44  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.3   | 0.40  | 7020006 | 1.8   | 0.33  | 0.44  | 0.30  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 9.2   | 1.0   | 7020006 | 6.5   | 0.83  | 3.7   | 0.74  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.9   | 0.52  | 7020006 | 4.5   | 0.43  | 2.0   | 0.39  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 6.8   | 2.0   | 7020006 | 3.5   | 1.7   | <1.5  | 1.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 2.0   | 7020006 | 31    | 1.7   | 7.0   | 1.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |         |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 7026083 | 11    | 5.0   | <5.0  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.30  | 0.020 | 7024503 | 0.31  | 0.020 | 0.11  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.61  | N/A   | 7024030 | 7.76  | N/A   | 7.17  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.93  | 0.10  | 7021713 | 0.81  | 0.10  | 1.1   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 7026327 | 35    | 1.5   | 7.8   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 5.6   | 1.0   | 7026327 | 5.6   | 1.0   | 1.5   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 23    | 2.5   | 7026327 | 19    | 2.5   | 12    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 7.1   | 1.3   | 7026327 | 14    | 1.3   | 6.9   | 1.3   | 7026327 |
| Saturation %                   | %         | 40    | N/A   | 7024196 | 33    | N/A   | 30    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 61    | 5.0   | 7026327 | 93    | 5.0   | 24    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | 7021714 | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |             |            |             |            |              |            |              |            |                 |
|---------------|--------------|-------------|------------|-------------|------------|--------------|------------|--------------|------------|-----------------|
| Maxxam ID     |              | GZ9439      |            | GZ9440      |            | GZ9441       |            | GZ9442       |            |                 |
| Sampling Date |              | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23   |            | 2013/07/23   |            |                 |
| COC Number    |              | A134527     |            | A134527     |            | A134527      |            | A134527      |            |                 |
|               | <b>UNITS</b> | <b>TP#4</b> | <b>RDL</b> | <b>TP#5</b> | <b>RDL</b> | <b>TP#17</b> | <b>RDL</b> | <b>TP#18</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.89  | N/A   | 0.63  | N/A   | 0.21  | N/A   | 0.76  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.9   | N/A   | 1.9   | N/A   | 1.2   | N/A   | 2.9   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 14    | 0.10  | 13    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 3.2   | 0.010 | 3.0   | 0.010 | 5.7   | 0.010 | 3.8   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 7.6   | 0.48  | 4.7   | 0.47  | 3.3   | 0.48  | 15    | 0.63  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.5   | 0.32  | 0.84  | 0.31  | 0.57  | 0.32  | 1.7   | 0.42  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 6.6   | 0.80  | 4.1   | 0.78  | 3.0   | 0.81  | 4.1   | 1.1   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 5.0   | 0.42  | 4.0   | 0.41  | 1.4   | 0.42  | 4.5   | 0.54  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <1.6  | 1.6   | <1.6  | 1.6   | <1.6  | 1.6   | <2.1  | 2.1   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 14    | 1.6   | 9.4   | 1.6   | 3.2   | 1.6   | 15    | 2.1   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.23  | 0.020 | 0.15  | 0.020 | 0.085 | 0.020 | 0.22  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.60  | N/A   | 7.53  | N/A   | 6.67  | N/A   | 7.53  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 1.0   | 0.10  | 0.82  | 0.10  | 0.71  | 0.10  | 0.41  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 24    | 1.5   | 15    | 1.5   | 10    | 1.5   | 37    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 4.6   | 1.0   | 2.7   | 1.0   | 1.8   | 1.0   | 4.2   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 21    | 2.5   | 13    | 2.5   | 9.4   | 2.5   | 9.7   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 16    | 1.3   | 13    | 1.3   | 4.5   | 1.3   | 11    | 1.3   | 7026327 |
| Saturation %                   | %         | 32    | N/A   | 31    | N/A   | 32    | N/A   | 42    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 43    | 5.0   | 30    | 5.0   | 9.9   | 5.0   | 36    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                 |            |                  |            |                  |            |                  |            |                 |
|---------------|--------------|-----------------|------------|------------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            | GZ9444           |            | GZ9445           |            | GZ9446           |            |                 |
| Sampling Date |              | 2013/07/20      |            | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527         |            | A134527          |            | A134527          |            | A134527          |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>EX-13-IJB</b> | <b>RDL</b> | <b>EX-13-IKE</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 12    | N/A   | 4.2   | N/A   | 16    | N/A   | 1.7   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 12    | N/A   | 5.1   | N/A   | 16    | N/A   | 2.3   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 9.3   | 0.10  | 11    | 0.10  | 11    | 0.10  | 11    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.0   | 0.010 | 1.2   | 0.010 | 1.0   | 0.010 | 1.4   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 28    | 0.55  | 20    | 0.53  | 81    | 0.57  | 11    | 0.53  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 7.4   | 0.37  | 4.2   | 0.35  | 13    | 0.38  | 1.2   | 0.35  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 50    | 0.92  | 9.0   | 0.88  | 23    | 0.95  | 3.7   | 0.89  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 5.8   | 0.48  | 2.9   | 0.46  | 4.7   | 0.49  | 1.2   | 0.46  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 72    | 1.8   | 4.0   | 1.8   | 34    | 1.9   | 3.1   | 1.8   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 110   | 1.8   | 65    | 1.8   | 250   | 1.9   | 24    | 1.8   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 200   | 5.0   | 11    | 5.0   | 90    | 5.0   | 8.9   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 1.3   | 0.020 | 0.45  | 0.020 | 1.5   | 0.020 | 0.21  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.16  | N/A   | 7.23  | N/A   | 6.90  | N/A   | 7.26  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 3.6   | 0.10  | 0.80  | 0.10  | 1.0   | 0.10  | 0.48  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 76    | 1.5   | 56    | 1.5   | 210   | 1.5   | 30    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 20    | 1.0   | 12    | 1.0   | 35    | 1.0   | 3.3   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 130   | 2.5   | 25    | 2.5   | 60    | 2.5   | 10    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 16    | 1.3   | 8.3   | 1.3   | 12    | 1.3   | 3.3   | 1.3   | 7026327 |
| Saturation %                   | %         | 37    | N/A   | 35    | N/A   | 38    | N/A   | 36    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 290   | 5.0   | 180   | 5.0   | 650   | 5.0   | 68    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |       | GZ9447     |     | GZ9448     |     | GZ9449     |     | GZ9453        |     |          |
|---------------|-------|------------|-----|------------|-----|------------|-----|---------------|-----|----------|
| Sampling Date |       | 2013/07/21 |     | 2013/07/21 |     | 2013/07/21 |     | 2013/07/22    |     |          |
| COC Number    |       | A134527    |     | A134528    |     | A134528    |     | A134528       |     |          |
|               | UNITS | EX-13-ILE  | RDL | EX-13-IEB  | RDL | EX-13-IDB  | RDL | EX-13-AW (3M) | RDL | QC Batch |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 3.5   | N/A   | 1.3   | N/A   | 1.8   | N/A   | 2.0   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 4.3   | N/A   | 2.8   | N/A   | 2.8   | N/A   | 3.8   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 12    | 0.10  | 12    | 0.10  | 11    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.2   | 0.010 | 2.0   | 0.010 | 1.5   | 0.010 | 1.9   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 18    | 0.54  | 8.5   | 0.48  | 10    | 0.50  | 18    | 0.68  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.2   | 0.36  | 2.1   | 0.32  | 2.4   | 0.33  | 3.8   | 0.45  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 7.2   | 0.90  | 5.2   | 0.79  | 4.6   | 0.83  | 11    | 1.1   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 1.6   | 0.47  | 1.8   | 0.41  | 1.5   | 0.43  | 2.3   | 0.59  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 7.2   | 1.8   | 5.3   | 1.6   | 2.9   | 1.7   | 16    | 2.3   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 50    | 1.8   | 13    | 1.6   | 26    | 1.7   | 22    | 2.3   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 20    | 5.0   | 17    | 5.0   | 8.5   | 5.0   | 35    | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.37  | 0.020 | 0.23  | 0.020 | 0.24  | 0.020 | 0.35  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 6.99  | N/A   | 7.64  | N/A   | 7.12  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.68  | 0.10  | 0.73  | 0.10  | 0.58  | 0.10  | 0.89  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 51    | 1.5   | 27    | 1.5   | 31    | 1.5   | 40    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 9.0   | 1.0   | 6.7   | 1.0   | 7.2   | 1.0   | 8.3   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 20    | 2.5   | 16    | 2.5   | 14    | 2.5   | 24    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 4.5   | 1.3   | 5.7   | 1.3   | 4.4   | 1.3   | 5.0   | 1.3   | 7026327 |
| Saturation %                   | %         | 36    | N/A   | 32    | N/A   | 33    | N/A   | 45    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 140   | 5.0   | 42    | 5.0   | 77    | 5.0   | 48    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

| Maxxam ID     |       | GZ9454           |     | GZ9455           |     | GZ9456           |     | GZ9457           |     |          |
|---------------|-------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|----------|
| Sampling Date |       | 2013/07/22       |     | 2013/07/22       |     | 2013/07/22       |     | 2013/07/22       |     |          |
| COC Number    |       | A134528          |     | A134528          |     | A134528          |     | A134528          |     |          |
|               | UNITS | EX-13-AW<br>(7M) | RDL | EX-13-BW<br>(1M) | RDL | EX-13-BW<br>(6M) | RDL | EX-13-CW<br>(5M) | RDL | QC Batch |

| Calculated Parameters          |           |       |       |       |       |         |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 2.7   | N/A   | 0.94  | N/A   | 20      | N/A   | 3.3   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 4.4   | N/A   | 2.9   | N/A   | 22      | N/A   | 4.1   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 10    | 0.10  | 15    | 0.10  | 9.9     | 0.10  | 10    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.6   | 0.010 | 3.1   | 0.010 | 1.1     | 0.010 | 1.2   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 16    | 0.53  | 6.8   | 0.74  | 34      | 0.50  | 11    | 0.51  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.3   | 0.35  | 1.4   | 0.49  | 8.4     | 0.34  | 2.1   | 0.34  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 10    | 0.88  | 22    | 1.2   | 110     | 0.84  | 13    | 0.85  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 3.6   | 0.46  | 1.1   | 0.64  | 3.9     | 0.44  | 2.6   | 0.44  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 12    | 1.8   | 9.0   | 2.5   | 150     | 3.4   | 7.3   | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 29    | 1.8   | 10    | 2.5   | 120     | 1.7   | 44    | 1.7   | 7022361 |
| Soluble Parameters             |           |       |       |       |       |         |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 35    | 5.0   | 18    | 5.0   | 440 (1) | 10    | 21    | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.42  | 0.020 | 0.19  | 0.020 | 2.2     | 0.020 | 0.40  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.24  | N/A   | 7.00  | N/A   | 7.39    | N/A   | 7.62  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 1.1   | 0.10  | 2.9   | 0.10  | 7.7     | 0.10  | 1.7   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 46    | 1.5   | 14    | 1.5   | 100     | 1.5   | 33    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 6.4   | 1.0   | 2.8   | 1.0   | 25      | 1.0   | 6.3   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 30    | 2.5   | 45    | 2.5   | 330     | 2.5   | 39    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 10    | 1.3   | 2.1   | 1.3   | 12      | 1.3   | 7.7   | 1.3   | 7026327 |
| Saturation %                   | %         | 35    | N/A   | 49    | N/A   | 34      | N/A   | 34    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 83    | 5.0   | 20    | 5.0   | 360     | 5.0   | 130   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 1.1     | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit  
 ( 1 ) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                          |            |                 |                            |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|-----------------|----------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9458                   |            |                 | GZ9465                     |            | GZ9466                   |            |                 |
| Sampling Date |              | 2013/07/22               |            |                 | 2013/07/22                 |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            |                 | A134528                    |            | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DW<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-DN<br/>(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |      |       |         |       |       |       |       |         |
|--------------------------------|-----------|------|-------|---------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 18   | N/A   | 7022359 | 1.1   | N/A   | 7.0   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 19   | N/A   | 7022359 | 2.7   | N/A   | 7.1   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 9.7  | 0.10  | 7021708 | 12    | 0.10  | 10    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.0  | 0.010 | 7022358 | 2.4   | 0.010 | 1.0   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 42   | 0.54  | 7022361 | 10    | 0.59  | 22    | 0.45  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 12   | 0.36  | 7022361 | 1.7   | 0.39  | 5.7   | 0.30  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 83   | 0.91  | 7022361 | 4.7   | 0.98  | 12    | 0.75  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 3.7  | 0.47  | 7022361 | 7.7   | 0.51  | 2.9   | 0.39  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 140  | 1.8   | 7022361 | 3.4   | 2.0   | 5.3   | 1.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 120  | 1.8   | 7022361 | 17    | 2.0   | 93    | 1.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |      |       |         |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 400  | 5.0   | 7026083 | 8.6   | 5.0   | 18    | 5.0   | 7026562 |
| Soluble Conductivity           | dS/m      | 1.9  | 0.020 | 7024503 | 0.22  | 0.020 | 0.71  | 0.020 | 7025245 |
| Soluble (CaCl2) pH             | N/A       | 7.19 | N/A   | 7024030 | 7.25  | N/A   | 7.46  | N/A   | 7024049 |
| Sodium Adsorption Ratio        | N/A       | 4.9  | 0.10  | 7021713 | 0.57  | 0.10  | 1.1   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 120  | 1.5   | 7026327 | 26    | 1.5   | 72    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)         | mg/L      | 33   | 1.0   | 7026327 | 4.2   | 1.0   | 19    | 1.0   | 7026924 |
| Soluble Sodium (Na)            | mg/L      | 230  | 2.5   | 7026327 | 12    | 2.5   | 40    | 2.5   | 7026924 |
| Soluble Potassium (K)          | mg/L      | 10   | 1.3   | 7026327 | 20    | 1.3   | 9.8   | 1.3   | 7026924 |
| Saturation %                   | %         | 36   | N/A   | 7024196 | 39    | N/A   | 30    | N/A   | 7024253 |
| Soluble Sulphate (SO4)         | mg/L      | 330  | 5.0   | 7026327 | 42    | 5.0   | 310   | 5.0   | 7026924 |
| Theoretical Gypsum Requirement | tonnes/ha | 0.24 | 0.10  | 7021714 | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                          |            |                          |            |                            |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|----------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9467                   |            | GZ9468                   |            | GZ9469                     |            | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22                 |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134516                    |            | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(3M)</b> | <b>RDL</b> | <b>EX-13-EN<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.23  | N/A   | 19    | N/A   | 1.0   | N/A   | 2.9   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 1.7   | N/A   | 18    | N/A   | 2.2   | N/A   | 4.7   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 14    | 0.10  | 12    | 0.10  | 13    | 0.10  | 12    | 0.10  | 7022350 |
| Ion Balance                    | N/A       | 7.4   | 0.010 | 0.98  | 0.010 | 2.1   | 0.010 | 1.6   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 4.4   | 0.44  | 90    | 0.62  | 25    | 2.1   | 28    | 0.82  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.61  | 0.29  | 27    | 0.41  | 7.3   | 1.4   | 7.4   | 0.55  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.5   | 0.73  | 16    | 1.0   | 28    | 3.5   | 4.9   | 1.4   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 0.74  | 0.38  | 3.7   | 0.53  | 1.9   | 1.8   | 14    | 0.71  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <1.5  | 1.5   | 32    | 2.1   | 10    | 7.0   | 4.0   | 2.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 3.1   | 1.5   | 320   | 2.1   | 56    | 7.0   | 70    | 2.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | 77    | 5.0   | 7.4   | 5.0   | 7.3   | 5.0   | 7026562 |
| Soluble Conductivity           | dS/m      | 0.12  | 0.020 | 1.5   | 0.020 | 0.18  | 0.020 | 0.41  | 0.020 | 7025245 |
| Soluble (CaCl2) pH             | N/A       | 7.74  | N/A   | 6.72  | N/A   | 6.10  | N/A   | 6.64  | N/A   | 7024049 |
| Sodium Adsorption Ratio        | N/A       | 0.99  | 0.10  | 0.58  | 0.10  | 1.1   | 0.10  | 0.29  | 0.10  | 7022360 |
| Soluble Calcium (Ca)           | mg/L      | 15    | 1.5   | 220   | 1.5   | 17    | 1.5   | 51    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)         | mg/L      | 2.1   | 1.0   | 66    | 1.0   | 5.2   | 1.0   | 13    | 1.0   | 7026924 |
| Soluble Sodium (Na)            | mg/L      | 15    | 2.5   | 39    | 2.5   | 20    | 2.5   | 8.9   | 2.5   | 7026924 |
| Soluble Potassium (K)          | mg/L      | 2.5   | 1.3   | 8.9   | 1.3   | 1.4   | 1.3   | 25    | 1.3   | 7026924 |
| Saturation %                   | %         | 29    | N/A   | 41    | N/A   | 140   | N/A   | 55    | N/A   | 7024253 |
| Soluble Sulphate (SO4)         | mg/L      | 11    | 5.0   | 790   | 5.0   | 40    | 5.0   | 130   | 5.0   | 7026924 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7022362 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Soluble Parameters</b>                                |        |        |       |         |
|--|--------|--------|-------|---------|
| Soluble (1:1) pH   | N/A    | 7.44   | N/A   | 7024529 |
| <b>Physical Properties</b>                               |        |        |       |         |
| Closed Cup Flash point                                   | deg. C | >61    | N/A   | 7026825 |
| Free Liquid  | N/A    | PASS   | N/A   | 7026879 |
| <b>Elements</b>  |        |        |       |         |
| Leachable Antimony (Sb)                                  | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Arsenic (As)                                   | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Barium (Ba)                                    | mg/L   | 2.2    | 1.0   | 7023787 |
| Leachable Beryllium (Be)                                 | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Boron (B)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Cadmium (Cd)                                   | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Chromium (Cr)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Cobalt (Co)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Copper (Cu)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Iron (Fe)                                      | mg/L   | 11     | 1.0   | 7023787 |
| Leachable Lead (Pb)                                      | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Mercury (Hg)                                   | mg/L   | <0.020 | 0.020 | 7023787 |
| Leachable Nickel (Ni)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Selenium (Se)                                  | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Silver (Ag)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Thallium (Tl)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Uranium (U)                                    | mg/L   | <0.20  | 0.20  | 7023787 |
| Leachable Vanadium (V)                                   | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zinc (Zn)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zirconium (Zr)                                 | mg/L   | <1.0   | 1.0   | 7023787 |
| <b>Volatiles</b>   |        |        |       |         |
| Leachable (ZH) Benzene                                   | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) Toluene                                   | ug/L   | 18     | 10    | 7024500 |
| Leachable (ZH) Ethylbenzene                              | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) o-Xylene                                  | ug/L   | 53     | 10    | 7024500 |
| Leachable (ZH) m & p-Xylene                              | ug/L   | 80     | 20    | 7024500 |
| Leachable (ZH) Xylenes (Total)                           | ug/L   | 130    | 20    | 7024500 |
| <b>Surrogate Recovery (%)</b>                            |        |        |       |         |
| Leachable (ZH) 1,4-Difluorobenzene (sur.)                | %      | 91     | N/A   | 7024500 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |        |        |       |         |

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|   |   |    |     |         |
|---|---|----|-----|---------|
| Leachable (ZH) 4-BROMOFLUOROBENZENE (sur.)  | % | 98 | N/A | 7024500 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE (sur.) | % | 87 | N/A | 7024500 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |             |             |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.19  | 0.11  | 0.19  | 0.25  | <0.10 | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.6   | 6.4   | 6.5   | 5.0   | 4.5   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 2300  | 1700  | 1100  | 1900  | 580   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | 0.26  | <0.10 | <0.10 | <0.10 | <0.10 | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 6.8   | 5.3   | 6.8   | 5.3   | 4.6   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 2.7   | 3.0   | 2.7   | 2.2   | 1.9   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | 10    | 6.2   | 8.0   | 6.1   | <5.0  | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 61    | 18    | 18    | 18    | 9.1   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | 0.12  | 0.064 | 0.061 | 0.072 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.68  | 0.61  | 0.98  | 0.50  | <0.40 | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 7.0   | 7.1   | 6.9   | 5.2   | 4.9   | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 11    | 11    | 10    | 9.7   | 8.6   | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 77    | 29    | 23    | 29    | 17    | 10    | 7026100 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |              |              |                 |                 |                  |            |                 |
|---------------|--------------|--------------|--------------|-----------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       | GZ9442       | GZ9443          |                 | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   | 2013/07/23   | 2013/07/20      |                 | 2013/07/21       |            |                 |
| COC Number    |              | A134527      | A134527      | A134527         |                 | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>QC Batch</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |        |         |        |       |         |
|-------------------------------|-------|-------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.11  | 0.34  | 0.72   | 7026671 | 0.39   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15  | 7024524 | <0.15  | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | 1.2    | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 7.9   | 6.7   | 5.5    | 7026100 | 5.9    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 740   | 1100  | 420    | 7026100 | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40  | 7026100 | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.11  | 0.17  | 0.18   | 7026100 | 0.23   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 6.6   | 110   | 11     | 7026100 | 13     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9   | 3.3   | 3.8    | 7026100 | 3.9    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 6.8   | 7.9   | 11     | 7026100 | 14     | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 8.4   | 22    | 16     | 7026100 | 13     | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | 0.053 | 0.081 | <0.050 | 7026100 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.66  | 0.74  | 0.67   | 7026100 | 0.80   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 9.2   | 8.5   | 12     | 7026100 | 14     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50  | 7026100 | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30  | 7026100 | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | 1.3    | 7026100 | 2.0    | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 15    | 13    | 11     | 7026100 | 14     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 28    | 30    | 46     | 7026100 | 57     | 10    | 7024736 |

RDL = Reportable Detection Limit

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                  |                  |                  |                  |                  |                          |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           | GZ9449           | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/22               |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          | A134528          | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>EX-13-IDB</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |        |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.50   | <0.10  | <0.10  | 0.20   | <0.10  | 0.90   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.1    | 4.9    | 4.4    | 5.6    | 5.2    | 8.1    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 1900   | 82     | 120    | 350    | 91     | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.22   | <0.10  | <0.10  | <0.10  | <0.10  | 0.12   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 6.3    | 6.6    | 25     | 7.0    | 11     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.4    | 4.0    | 3.8    | 3.5    | 3.8    | 4.2    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 25     | <5.0   | <5.0   | <5.0   | <5.0   | 6.5    | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 18     | 3.0    | 3.7    | 6.5    | 3.3    | 4.8    | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.63   | 0.47   | <0.40  | 0.81   | 0.46   | 0.62   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 10     | 11     | 10     | 17     | 10     | 12     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | 3.9    | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 14     | 12     | 13     | 13     | 13     | 20     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 60     | 27     | 30     | 26     | 27     | 34     | 10    | 7024736 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                          |                          |                          |                          |                            |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9454                   | GZ9455                   | GZ9456                   | GZ9457                   | GZ9458                   | GZ9465                     |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  | A134528                  | A134528                  | A134528                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(7M)</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(6M)</b> | <b>EX-13-CW<br/>(5M)</b> | <b>EX-13-DW<br/>(6M)</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |        |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.20   | 0.39   | 0.50   | 0.22   | 0.21   | 0.22   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.6    | 6.0    | 5.6    | 5.8    | 5.2    | 6.1    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 97     | 210    | 100    | 100    | 86     | 120    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.11   | <0.10  | <0.10  | <0.10  | <0.10  | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 10     | 12     | 8.2    | 9.4    | 12     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9    | 4.4    | 4.2    | 4.4    | 3.9    | 4.1    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | <5.0   | 5.8    | <5.0   | <5.0   | <5.0   | <5.0   | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 3.5    | 4.5    | 3.4    | 3.6    | 3.2    | 3.6    | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.58   | 0.57   | 0.60   | 0.55   | 0.49   | 0.57   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 12     | 13     | 14     | 13     | 12     | 14     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 13     | 17     | 14     | 15     | 13     | 13     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 29     | 25     | 29     | 33     | 27     | 28     | 10    | 7024736 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                          |                          |                 |                            |                          |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|-----------------|----------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9466                   | GZ9467                   | GZ9468                   |                 | GZ9469                     | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               |                 | 2013/07/22                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  |                 | A134516                    | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>QC Batch</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |         |       |        |       |         |
|-------------------------------|-------|--------|--------|--------|---------|-------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.18   | <0.10  | 2.6    | 7025702 | 0.84  | 0.56   | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | 7024522 | <0.15 | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | <1.0   | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 5.3    | 6.1    | 13     | 7024736 | 5.1   | 4.9    | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 89     | 76     | 210    | 7024736 | 480   | 220    | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | 7024736 | <0.40 | <0.40  | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | 0.98   | 7024736 | 0.20  | <0.10  | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 9.4    | 9.4    | 9.3    | 7024736 | 6.8   | 5.0    | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 3.9    | 3.6    | 6.8    | 7024736 | 3.7   | 2.8    | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | <5.0   | <5.0   | 7.4    | 7024736 | 7.7   | <5.0   | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 3.1    | 3.0    | 4.6    | 7024736 | 9.6   | 6.0    | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | 7024736 | 0.057 | <0.050 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.52   | 0.51   | 1.4    | 7024736 | 0.50  | 0.45   | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 12     | 12     | 18     | 7024736 | 11    | 7.0    | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | 7024736 | <0.50 | <0.50  | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | <1.0   | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | 7024736 | <0.30 | <0.30  | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | <1.0   | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | 1.2    | 7024736 | <1.0  | <1.0   | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 13     | 12     | 21     | 7024736 | 14    | 9.6    | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 26     | 25     | 40     | 7024736 | 28    | 29     | 10    | 7026100 |

RDL = Reportable Detection Limit

Maxxam Analytics - Partial/Rush Results



Maxxam Job #: B363840  
 Report Date: 2013/07/27

 KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                          |            |                 |
|---------------|--------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>                              |       |         |        |         |
|--|-------|---------|--------|---------|
| Acenaphthene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency                               | mg/kg | <0.10   | 0.10   | 7021178 |
| Acenaphthylene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Acridine   | mg/kg | <0.010  | 0.010  | 7023968 |
| Anthracene   | mg/kg | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene                                       | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene                                   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Chrysene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene                                    | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluorene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene                                   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene                                      | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Naphthalene  | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Perylene   | mg/kg | 0.0065  | 0.0050 | 7023968 |
| Pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Quinoline  | mg/kg | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b>                            |       |         |        |         |
| D10-ANTHRACENE (sur.)                                    | %     | 98      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)                                | %     | 79      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)                                 | %     | 99      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)                                     | %     | 117     | N/A    | 7023968 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |        |         |

Maxxam Analytics - Partial/Rush Results

Maxxam Job #: B363840  
Report Date: 2013/07/27

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 6.3°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

Report re-issued to include PAH results.

**Results relate only to the items tested.**

Maxxam Analytics - Partial/Rush Results

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

### Quality Assurance Report

Maxxam Job Number: EB363840

| QA/QC Batch               | QC Type                     | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|-----------------------------|---------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7021306 JR1               | Matrix Spike                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 101      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 114      | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 95       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 104      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           | RPD                         | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | NC         |          | %     | 50        |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | NC         |          | %     | 50        |          |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                | NC                          |            | %        | 50    |           |          |
|                           |                             |                           |                             |            |          |       |           |          |
| 7022792 JR1               | Matrix Spike<br>[GZ9455-01] | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 89       | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 88       | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 92       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 105      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 94       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           | RPD [GZ9454-01]             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | NC         |          | %     | 50        |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | NC         |          | %     | 50        |          |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                | NC                          |            | %        | 50    |           |          |
|                           |                             |                           |                             |            |          |       |           |          |
| 7023787 WAU               | Matrix Spike                | Leachable Antimony (Sb)   | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Arsenic (As)    | 2013/07/26                  |            | 103      | %     | 75 - 125  |          |
|                           |                             | Leachable Barium (Ba)     | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|                           |                             | Leachable Beryllium (Be)  | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|                           |                             | Leachable Boron (B)       | 2013/07/26                  |            | 105      | %     | 75 - 125  |          |
|                           |                             | Leachable Cadmium (Cd)    | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                           |                             | Leachable Chromium (Cr)   | 2013/07/26                  |            | 102      | %     | 75 - 125  |          |
|                           |                             | Leachable Cobalt (Co)     | 2013/07/26                  |            | 99       | %     | 75 - 125  |          |
|                           |                             | Leachable Copper (Cu)     | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                           |                             | Leachable Iron (Fe)       | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|                           |                             | Leachable Lead (Pb)       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                           |                             | Leachable Mercury (Hg)    | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Nickel (Ni)     | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                           |                             | Leachable Selenium (Se)   | 2013/07/26                  |            | 111      | %     | 75 - 125  |          |
|                           |                             | Leachable Silver (Ag)     | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|                           |                             | Leachable Thallium (Tl)   | 2013/07/26                  |            | 106      | %     | 75 - 125  |          |
|                           |                             | Leachable Uranium (U)     | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                           |                             | Leachable Vanadium (V)    | 2013/07/26                  |            | 109      | %     | 75 - 125  |          |
|                           |                             | Leachable Zinc (Zn)       | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Zirconium (Zr)  | 2013/07/26                  |            | 116      | %     | 75 - 125  |          |
|                           |                             | Spiked Blank              | Leachable Antimony (Sb)     | 2013/07/26 |          | 86    | %         | 80 - 120 |
|                           |                             |                           | Leachable Arsenic (As)      | 2013/07/26 |          | 97    | %         | 80 - 120 |
|                           |                             |                           | Leachable Barium (Ba)       | 2013/07/26 |          | 101   | %         | 80 - 120 |
|                           |                             |                           | Leachable Beryllium (Be)    | 2013/07/26 |          | 99    | %         | 80 - 120 |

KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch             | QC Type      | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value                    | Recovery   | UNITS | QC Limits |      |  |
|-------------------------|--------------|--------------------------|-----------------------------|--------------------------|------------|-------|-----------|------|--|
| 7023787 WAU             | Spiked Blank | Leachable Boron (B)      | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                         |              | Leachable Cadmium (Cd)   | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                         |              | Leachable Chromium (Cr)  | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                         |              | Leachable Cobalt (Co)    | 2013/07/26                  |                          | 97         | %     | 80 - 120  |      |  |
|                         |              | Leachable Copper (Cu)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                         |              | Leachable Iron (Fe)      | 2013/07/26                  |                          | 105        | %     | 80 - 120  |      |  |
|                         |              | Leachable Lead (Pb)      | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                         |              | Leachable Mercury (Hg)   | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                         |              | Leachable Nickel (Ni)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                         |              | Leachable Selenium (Se)  | 2013/07/26                  |                          | 104        | %     | 80 - 120  |      |  |
|                         |              | Leachable Silver (Ag)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                         |              | Leachable Thallium (Tl)  | 2013/07/26                  |                          | 108        | %     | 80 - 120  |      |  |
|                         |              | Leachable Uranium (U)    | 2013/07/26                  |                          | 88         | %     | 80 - 120  |      |  |
|                         |              | Leachable Vanadium (V)   | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                         |              | Leachable Zinc (Zn)      | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                         |              | Leachable Zirconium (Zr) | 2013/07/26                  |                          | 103        | %     | 80 - 120  |      |  |
|                         |              | Method Blank             | Method Blank                | Leachable Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/L |  |
|                         |              |                          |                             | Leachable Arsenic (As)   | 2013/07/26 | <0.50 |           | mg/L |  |
|                         |              |                          |                             | Leachable Barium (Ba)    | 2013/07/26 | <1.0  |           | mg/L |  |
|                         |              |                          |                             | Leachable Beryllium (Be) | 2013/07/26 | <0.50 |           | mg/L |  |
| Leachable Boron (B)     | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Cadmium (Cd)  | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Chromium (Cr) | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Cobalt (Co)   | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Copper (Cu)   | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Iron (Fe)     | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Lead (Pb)     | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Mercury (Hg)  | 2013/07/26   |                          |                             | <0.020                   |            | mg/L  |           |      |  |
| Leachable Nickel (Ni)   | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Selenium (Se) | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Silver (Ag)   | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Thallium (Tl) | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Uranium (U)   | 2013/07/26   |                          |                             | <0.20                    |            | mg/L  |           |      |  |
| Leachable Vanadium (V)  | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Zinc (Zn)     | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| RPD                     | RPD          |                          |                             | Leachable Zirconium (Zr) | 2013/07/26 | <1.0  |           | mg/L |  |
|                         |              | Leachable Antimony (Sb)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Arsenic (As)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Barium (Ba)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Beryllium (Be) | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Boron (B)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Cadmium (Cd)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Chromium (Cr)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Cobalt (Co)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Copper (Cu)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Iron (Fe)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Lead (Pb)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Mercury (Hg)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Nickel (Ni)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Selenium (Se)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Silver (Ag)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Thallium (Tl)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Uranium (U)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Vanadium (V)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                         |              | Leachable Zinc (Zn)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |

Maxxam Analytics - Partial/Rush Results

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Maxxam Job Number: EB363840

| QA/QC Batch | QC Type      | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|--------------|---------------------------|-----------------------------|-------|----------|-------|-----------|
| 7023787 WAU | RPD          | Leachable Zirconium (Zr)  | 2013/07/26                  | NC    |          | %     | 35        |
| 7023968 YM1 | Matrix Spike | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 97       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 93       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 90       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 64       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 91       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 78       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 74       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 75       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 83       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 92       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             | Spiked Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 58       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 73       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 68       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 69       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 84       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 109      | %     | 50 - 130  |
|             | Method Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 108      | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |

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| QA/QC Batch | QC Type         | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|-----------------|--------------------------|-----------------------------|---------|----------|-------|-----------|
| 7023968 YM1 | Method Blank    | D8-ACENAPHTHYLENE (sur.) | 2013/07/26                  |         | 99       | %     | 50 - 130  |
|             |                 | TERPHENYL-D14 (sur.)     | 2013/07/26                  |         | 118      | %     | 50 - 130  |
|             |                 | Acenaphthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acenaphthylene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acridine                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                 | Anthracene               | 2013/07/26                  | <0.0040 |          | mg/kg |           |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Chrysene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluoranthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluorene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Naphthalene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Phenanthrene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Perylene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Pyrene                   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Quinoline                | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             | RPD             | Acenaphthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acenaphthylene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acridine                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Anthracene               | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Chrysene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluoranthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluorene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Naphthalene              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Phenanthrene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Perylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Pyrene                   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Quinoline                | 2013/07/26                  | NC      |          | %     | 50        |
| 7024030 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD [GZ9437-01] | Soluble (CaCl2) pH       | 2013/07/26                  | 1.0     |          | %     | 5         |
| 7024049 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 102      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH       | 2013/07/26                  | 0.1     |          | %     | 5         |
| 7024196 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 99       | %     | 93 - 107  |
|             | RPD [GZ9455-01] | Saturation %             | 2013/07/26                  | 1.2     |          | %     | 12        |
| 7024253 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 103      | %     | 93 - 107  |



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| QA/QC Batch | QC Type                     | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|-----------------------------|------------------------------|-----------------------------|---------|----------|-------|-----------|
| 7024253 LX  | RPD                         | Saturation %                 | 2013/07/26                  | 2.2     |          | %     | 12        |
| 7024356 NSE | Matrix Spike                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 102      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 101      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 101      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 99       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 92       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 90       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 86       | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 85       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 84       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 86       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             | Method Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 109      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 88       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Toluene                      | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | Ethylbenzene                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                             | Xylenes (Total)              | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | m & p-Xylene                 | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | o-Xylene                     | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | <12     |          | mg/kg |           |
|             |                             | (C6-C10)                     | 2013/07/26                  | <12     |          | mg/kg |           |
|             | RPD                         | Benzene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Toluene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Ethylbenzene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Xylenes (Total)              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | m & p-Xylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | o-Xylene                     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | (C6-C10)                     | 2013/07/26                  | NC      |          | %     | 50        |
| 7024383 CG7 | Matrix Spike<br>[GZ9453-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 110      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 89       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 98       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 94       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 91       | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 129      | %     | 60 - 130  |

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| QA/QC Batch                          | QC Type                                   | Parameter                                 | Date Analyzed<br>yyyy/mm/dd  | Value           | Recovery                                  | UNITS      | QC Limits |          |   |
|--------------------------------------|---|---|------------------------------|-----------------|---|------------|-----------|----------|---|
| 7024383 CG7                          | Spiked Blank                              | D4-1,2-DICHLOROETHANE (sur.)              | 2013/07/26                   |                 | 101                                       | %          | 60 - 140  |          |   |
|                                      |   | Benzene                                   | 2013/07/26                   |                 | 102                                       | %          | 60 - 140  |          |   |
|                                      |   | Toluene                                   | 2013/07/26                   |                 | 97  | %          | 60 - 140  |          |   |
|                                      |   | Ethylbenzene                              | 2013/07/26                   |                 | 96  | %          | 60 - 140  |          |   |
|                                      |   | m & p-Xylene                              | 2013/07/26                   |                 | 95  | %          | 60 - 140  |          |   |
|                                      |   | o-Xylene                                  | 2013/07/26                   |                 | 94  | %          | 60 - 140  |          |   |
|                                      |   | (C6-C10)                                  | 2013/07/26                   |                 | 92  | %          | 60 - 140  |          |   |
|                                      |   | Method Blank                              | 1,4-Difluorobenzene (sur.)   | 2013/07/26      |   | 100        | %         | 60 - 140 |   |
|                                      |   |   | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26      |   | 101        | %         | 60 - 140 |   |
|                                      |   |   | D10-ETHYLBENZENE (sur.)      | 2013/07/26      |   | 122        | %         | 60 - 130 |   |
|                                      |   |   | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26      |   | 105        | %         | 60 - 140 |   |
|                                      |   |   | Benzene                      | 2013/07/26      | <0.0050                                   |            | mg/kg     |          |   |
|                                      |   |   | Toluene                      | 2013/07/26      | <0.020                                    |            | mg/kg     |          |   |
|                                      |   | RPD [GZ9449-01]                           | Method Blank                 | Ethylbenzene    | 2013/07/26                                | <0.010     |           | mg/kg    |   |
|                                      |   |   |                              | Xylenes (Total) | 2013/07/26                                | <0.040     |           | mg/kg    |   |
|                                      | m & p-Xylene                              |   |                              | 2013/07/26      | <0.040                                    |            | mg/kg     |          |   |
|                                      | o-Xylene                                  |   |                              | 2013/07/26      | <0.020                                    |            | mg/kg     |          |   |
|                                      | F1 (C6-C10) - BTEX                        |   |                              | 2013/07/26      | <12                                       |            | mg/kg     |          |   |
|                                      | (C6-C10)                                  |   |                              | 2013/07/26      | <12                                       |            | mg/kg     |          |   |
|                                      | RPD [GZ9449-01]                           |   | Benzene                      | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Toluene                      | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Ethylbenzene                 | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Xylenes (Total)              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | m & p-Xylene                 | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | o-Xylene                     | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | F1 (C6-C10) - BTEX           | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | (C6-C10)                     | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | 7024500 NSE                  | Matrix Spike    | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |           | 95       | % |
|                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26                                |                              |                 |   | 99         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26                                |                              |                 |   | 102        | %         | 70 - 130 |   |
| Leachable (ZH) Benzene               | 2013/07/26                                |   |                              |                 | 84  | %          | 70 - 130  |          |   |
| Leachable (ZH) Toluene               | 2013/07/26                                |   |                              |                 | 83  | %          | 70 - 130  |          |   |
| Leachable (ZH) Ethylbenzene          | 2013/07/26                                |   |                              |                 | 81  | %          | 70 - 130  |          |   |
| Leachable (ZH) o-Xylene              | 2013/07/26                                |   |                              |                 | 93  | %          | 70 - 130  |          |   |
| Leachable (ZH) m & p-Xylene          | 2013/07/26                                |   |                              |                 | 91  | %          | 70 - 130  |          |   |
| Spiked Blank                         | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26                                |                              |                 |   | 90         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26                                |                              |                 |   | 100        | %         | 70 - 130 |   |
|                                      | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26                                |                              |                 |   | 95         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Benzene                    | 2013/07/26                                |                              |                 |   | 77         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Toluene                    | 2013/07/26                                |                              |                 |   | 82         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Ethylbenzene               | 2013/07/26                                |                              |                 |   | 83         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) o-Xylene                   | 2013/07/26                                |                              |                 |   | 91         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) m & p-Xylene               | 2013/07/26                                |                              |                 | 87  | %          | 70 - 130  |          |   |
|                                      | Method Blank                              | Leachable (ZH) 1,4-Difluorobenzene (sur.) |                              | 2013/07/26      |   | 99         | %         | 70 - 130 |   |
| Leachable (ZH) 4-BROMOFLUOROBENZENE  |   | 2013/07/26                                |                              |                 | 101                                       | %          | 70 - 130  |          |   |
| Leachable (ZH) D4-1,2-DICHLOROETHANE |   | 2013/07/26                                |                              |                 | 98  | %          | 70 - 130  |          |   |
| Leachable (ZH) Benzene               |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) Toluene               |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) Ethylbenzene          |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) o-Xylene              |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) m & p-Xylene          |   | 2013/07/26                                |                              | <20             |   | ug/L       |           |          |   |
| Leachable (ZH) Xylenes (Total)       |   | 2013/07/26                                |                              | <20             |   | ug/L       |           |          |   |
| RPD                                  |   | Leachable (ZH) Benzene                    |                              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   | Leachable (ZH) Toluene                    |                              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   | Leachable (ZH) Ethylbenzene               |                              | 2013/07/26      | NC  |            | %         | 50       |   |

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## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch       | QC Type         | Parameter                      | Date Analyzed<br>yyyy/mm/dd | Value               | Recovery   | UNITS    | QC Limits |          |
|-------------------|-----------------|--------------------------------|-----------------------------|---------------------|------------|----------|-----------|----------|
| 7024500 NSE       | RPD             | Leachable (ZH) o-Xylene        | 2013/07/26                  | NC                  |            | %        | 50        |          |
|                   |                 | Leachable (ZH) m & p-Xylene    | 2013/07/26                  | NC                  |            | %        | 50        |          |
|                   |                 | Leachable (ZH) Xylenes (Total) | 2013/07/26                  | NC                  |            | %        | 50        |          |
| 7024503 SSF       | QC Standard     | Soluble Conductivity           | 2013/07/26                  |                     | 92         | %        | 75 - 125  |          |
|                   | Spiked Blank    | Soluble Conductivity           | 2013/07/26                  |                     | 99         | %        | 90 - 110  |          |
|                   | Method Blank    | Soluble Conductivity           | 2013/07/26                  | <0.020              |            | dS/m     |           |          |
|                   | RPD [GZ9455-01] | Soluble Conductivity           | 2013/07/26                  | 1.3                 |            | %        | 35        |          |
| 7024522 KD5       | Matrix Spike    |                                |                             |                     |            |          |           |          |
|                   | [GZ9458-01]     | Hex. Chromium (Cr 6+)          | 2013/07/26                  |                     | 82         | %        | 75 - 125  |          |
|                   | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |                     | 99         | %        | 90 - 110  |          |
|                   | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15               |            | mg/kg    |           |          |
| 7024524 KD5       | RPD [GZ9458-01] | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC                  |            | %        | 35        |          |
|                   | Matrix Spike    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |                     | 86         | %        | 75 - 125  |          |
|                   | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |                     | 99         | %        | 90 - 110  |          |
|                   | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15               |            | mg/kg    |           |          |
| 7024529 SSF       | RPD             | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC                  |            | %        | 35        |          |
|                   | QC Standard     | Soluble (1:1) pH               | 2013/07/26                  |                     | 100        | %        | 97 - 103  |          |
|                   | Spiked Blank    | Soluble (1:1) pH               | 2013/07/26                  |                     | 100        | %        | 99 - 101  |          |
|                   | RPD             | Soluble (1:1) pH               | 2013/07/26                  | 2.2                 |            | %        | 5         |          |
| 7024736 SF3       | Matrix Spike    | Total Antimony (Sb)            | 2013/07/26                  |                     | 90         | %        | 75 - 125  |          |
|                   |                 | Total Arsenic (As)             | 2013/07/26                  |                     | 95         | %        | 75 - 125  |          |
|                   |                 | Total Barium (Ba)              | 2013/07/26                  |                     | NC         | %        | 75 - 125  |          |
|                   |                 | Total Beryllium (Be)           | 2013/07/26                  |                     | 94         | %        | 75 - 125  |          |
|                   |                 | Total Cadmium (Cd)             | 2013/07/26                  |                     | 95         | %        | 75 - 125  |          |
|                   |                 | Total Chromium (Cr)            | 2013/07/26                  |                     | 93         | %        | 75 - 125  |          |
|                   |                 | Total Cobalt (Co)              | 2013/07/26                  |                     | 97         | %        | 75 - 125  |          |
|                   |                 | Total Copper (Cu)              | 2013/07/26                  |                     | 94         | %        | 75 - 125  |          |
|                   |                 | Total Lead (Pb)                | 2013/07/26                  |                     | 95         | %        | 75 - 125  |          |
|                   |                 | Total Mercury (Hg)             | 2013/07/26                  |                     | 93         | %        | 75 - 125  |          |
|                   |                 | Total Molybdenum (Mo)          | 2013/07/26                  |                     | 95         | %        | 75 - 125  |          |
|                   |                 | Total Nickel (Ni)              | 2013/07/26                  |                     | 93         | %        | 75 - 125  |          |
|                   |                 | Total Selenium (Se)            | 2013/07/26                  |                     | 97         | %        | 75 - 125  |          |
|                   |                 | Total Silver (Ag)              | 2013/07/26                  |                     | 98         | %        | 75 - 125  |          |
|                   |                 | Total Thallium (Tl)            | 2013/07/26                  |                     | 94         | %        | 75 - 125  |          |
|                   |                 | Total Tin (Sn)                 | 2013/07/26                  |                     | 101        | %        | 75 - 125  |          |
|                   |                 | Total Uranium (U)              | 2013/07/26                  |                     | 96         | %        | 75 - 125  |          |
|                   |                 | Total Vanadium (V)             | 2013/07/26                  |                     | NC         | %        | 75 - 125  |          |
|                   |                 | Total Zinc (Zn)                | 2013/07/26                  |                     | NC         | %        | 75 - 125  |          |
|                   |                 | QC Standard                    | Total Arsenic (As)          | 2013/07/26          |            | 128      | %         | 50 - 150 |
|                   |                 |                                | Total Barium (Ba)           | 2013/07/26          |            | 115      | %         | 69 - 131 |
|                   |                 |                                | Total Chromium (Cr)         | 2013/07/26          |            | 108      | %         | 41 - 159 |
|                   |                 |                                | Total Cobalt (Co)           | 2013/07/26          |            | 108      | %         | 75 - 125 |
|                   |                 |                                | Total Copper (Cu)           | 2013/07/26          |            | 111      | %         | 73 - 127 |
|                   |                 |                                | Total Lead (Pb)             | 2013/07/26          |            | 104      | %         | 54 - 146 |
|                   |                 |                                | Total Nickel (Ni)           | 2013/07/26          |            | 116      | %         | 61 - 139 |
|                   |                 |                                | Total Vanadium (V)          | 2013/07/26          |            | 125      | %         | 50 - 150 |
|                   |                 |                                | Total Zinc (Zn)             | 2013/07/26          |            | 117      | %         | 72 - 128 |
|                   |                 |                                | Spiked Blank                | Total Antimony (Sb) | 2013/07/26 |          | 93        | %        |
|                   |                 | Total Arsenic (As)             |                             | 2013/07/26          |            | 95       | %         | 75 - 125 |
|                   |                 | Total Barium (Ba)              |                             | 2013/07/26          |            | 95       | %         | 75 - 125 |
|                   |                 | Total Beryllium (Be)           |                             | 2013/07/26          |            | 100      | %         | 75 - 125 |
|                   |                 | Total Cadmium (Cd)             |                             | 2013/07/26          |            | 94       | %         | 75 - 125 |
|                   |                 | Total Chromium (Cr)            |                             | 2013/07/26          |            | 93       | %         | 75 - 125 |
| Total Cobalt (Co) | 2013/07/26      |                                |                             | 94                  | %          | 75 - 125 |           |          |
| Total Copper (Cu) | 2013/07/26      |                                |                             | 95                  | %          | 75 - 125 |           |          |

Maxxam Analytics - Partial/Rush Results

KLOHN CRIPPEN BERGER LTD  
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## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch           | QC Type               | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |       |  |
|-----------------------|-----------------------|-----------------------|-----------------------------|------------|----------|-------|-----------|-------|--|
| 7024736 SF3           | Spiked Blank          | Total Lead (Pb)       | 2013/07/26                  |            | 97       | %     | 75 - 125  |       |  |
|                       |                       | Total Mercury (Hg)    | 2013/07/26                  |            | 95       | %     | 75 - 125  |       |  |
|                       |                       | Total Molybdenum (Mo) | 2013/07/26                  |            | 94       | %     | 75 - 125  |       |  |
|                       |                       | Total Nickel (Ni)     | 2013/07/26                  |            | 95       | %     | 75 - 125  |       |  |
|                       |                       | Total Selenium (Se)   | 2013/07/26                  |            | 98       | %     | 75 - 125  |       |  |
|                       |                       | Total Silver (Ag)     | 2013/07/26                  |            | 97       | %     | 75 - 125  |       |  |
|                       |                       | Total Thallium (Tl)   | 2013/07/26                  |            | 95       | %     | 75 - 125  |       |  |
|                       |                       | Total Tin (Sn)        | 2013/07/26                  |            | 97       | %     | 75 - 125  |       |  |
|                       |                       | Total Uranium (U)     | 2013/07/26                  |            | 102      | %     | 75 - 125  |       |  |
|                       |                       | Total Vanadium (V)    | 2013/07/26                  |            | 95       | %     | 75 - 125  |       |  |
|                       |                       | Total Zinc (Zn)       | 2013/07/26                  |            | 94       | %     | 75 - 125  |       |  |
|                       |                       | Method Blank          | Total Antimony (Sb)         | 2013/07/26 | <1.0     |       |           | mg/kg |  |
|                       |                       |                       | Total Arsenic (As)          | 2013/07/26 | <1.0     |       |           | mg/kg |  |
|                       |                       |                       | Total Barium (Ba)           | 2013/07/26 | <10      |       |           | mg/kg |  |
|                       | Total Beryllium (Be)  |                       | 2013/07/26                  | <0.40      |          |       | mg/kg     |       |  |
|                       | Total Cadmium (Cd)    |                       | 2013/07/26                  | <0.10      |          |       | mg/kg     |       |  |
|                       | Total Chromium (Cr)   |                       | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       | Total Cobalt (Co)     |                       | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       | Total Copper (Cu)     |                       | 2013/07/26                  | <5.0       |          |       | mg/kg     |       |  |
|                       | Total Lead (Pb)       |                       | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       | Total Mercury (Hg)    |                       | 2013/07/26                  | <0.050     |          |       | mg/kg     |       |  |
|                       | Total Molybdenum (Mo) |                       | 2013/07/26                  | <0.40      |          |       | mg/kg     |       |  |
|                       | Total Nickel (Ni)     |                       | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       | Total Selenium (Se)   |                       | 2013/07/26                  | <0.50      |          |       | mg/kg     |       |  |
|                       | Total Silver (Ag)     |                       | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       | RPD                   | Total Thallium (Tl)   | 2013/07/26                  | <0.30      |          |       | mg/kg     |       |  |
|                       |                       | Total Tin (Sn)        | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       |                       | Total Uranium (U)     | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       |                       | Total Vanadium (V)    | 2013/07/26                  | <1.0       |          |       | mg/kg     |       |  |
|                       |                       | Total Zinc (Zn)       | 2013/07/26                  | <10        |          |       | mg/kg     |       |  |
|                       |                       | Total Antimony (Sb)   | 2013/07/26                  | NC         |          |       | %         | 35    |  |
|                       |                       | Total Arsenic (As)    | 2013/07/26                  | NC         |          |       | %         | 35    |  |
|                       |                       | Total Barium (Ba)     | 2013/07/26                  | 6.1        |          |       | %         | 35    |  |
|                       |                       | Total Beryllium (Be)  | 2013/07/26                  | NC         |          |       | %         | 35    |  |
| Total Cadmium (Cd)    |                       | 2013/07/26            | NC                          |            |          | %     | 35        |       |  |
| Total Chromium (Cr)   |                       | 2013/07/26            | 7.2                         |            |          | %     | 35        |       |  |
| Total Cobalt (Co)     |                       | 2013/07/26            | 6.1                         |            |          | %     | 35        |       |  |
| Total Copper (Cu)     |                       | 2013/07/26            | NC                          |            |          | %     | 35        |       |  |
| Total Lead (Pb)       |                       | 2013/07/26            | 5.6                         |            |          | %     | 35        |       |  |
| Total Mercury (Hg)    |                       | 2013/07/26            | NC                          |            |          | %     | 35        |       |  |
| Total Molybdenum (Mo) |                       | 2013/07/26            | NC                          |            |          | %     | 35        |       |  |
| Total Nickel (Ni)     | 2013/07/26            | 6.4                   |                             |            | %        | 35    |           |       |  |
| Total Selenium (Se)   | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| Total Silver (Ag)     | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| Total Thallium (Tl)   | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| Total Tin (Sn)        | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| Total Uranium (U)     | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| Total Vanadium (V)    | 2013/07/26            | 7.9                   |                             |            | %        | 35    |           |       |  |
| Total Zinc (Zn)       | 2013/07/26            | NC                    |                             |            | %        | 35    |           |       |  |
| 7024996 ABH           | Method Blank          | Moisture              | 2013/07/26                  | <0.30      |          | %     |           |       |  |
|                       | RPD [GZ9437-01]       | Moisture              | 2013/07/26                  | 5.6        |          | %     | 20        |       |  |
| 7025245 SSF           | QC Standard           | Soluble Conductivity  | 2013/07/26                  |            | 97       | %     | 85 - 115  |       |  |
|                       | Spiked Blank          | Soluble Conductivity  | 2013/07/26                  |            | 100      | %     | 90 - 110  |       |  |
|                       | Method Blank          | Soluble Conductivity  | 2013/07/26                  | <0.020     |          | dS/m  |           |       |  |
|                       | RPD                   | Soluble Conductivity  | 2013/07/26                  | 7.8        |          | %     | 35        |       |  |

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Maxxam Job Number: EB363840

| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 7025403 ABH | Method Blank    | Moisture                      | 2013/07/26                  | <0.30 |          | %     |           |
|             | RPD [GZ9457-01] | Moisture                      | 2013/07/26                  | 10.7  |          | %     | 20        |
| 7025702 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |       | 102      | %     | 75 - 125  |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10 |          | mg/kg |           |
|             | RPD             | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC    |          | %     | 35        |
| 7026083 KD5 | Matrix Spike    |                               |                             |       |          |       |           |
|             | [GZ9455-01]     | Soluble Chloride (Cl)         | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             | QC Standard     | Soluble Chloride (Cl)         | 2013/07/26                  |       | 91       | %     | 75 - 125  |
|             | Spiked Blank    | Soluble Chloride (Cl)         | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             | Method Blank    | Soluble Chloride (Cl)         | 2013/07/26                  | <5.0  |          | mg/L  |           |
|             | RPD [GZ9455-01] | Soluble Chloride (Cl)         | 2013/07/26                  | NC    |          | %     | 35        |
| 7026100 WAU | Matrix Spike    | Total Antimony (Sb)           | 2013/07/26                  |       | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |       | 95       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |       | 97       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |       | 94       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |       | 98       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |       | 97       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  |       | 97       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  |       | 98       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)           | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             |                 | Total Silver (Ag)             | 2013/07/26                  |       | 101      | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  |       | 95       | %     | 75 - 125  |
|             |                 | Total Tin (Sn)                | 2013/07/26                  |       | 103      | %     | 75 - 125  |
|             |                 | Total Uranium (U)             | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |       | 100      | %     | 75 - 125  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |       | NC       | %     | 75 - 125  |
|             | QC Standard     | Total Arsenic (As)            | 2013/07/26                  |       | 131      | %     | 50 - 150  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |       | 116      | %     | 69 - 131  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |       | 108      | %     | 41 - 159  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |       | 114      | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |       | 116      | %     | 73 - 127  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |       | 110      | %     | 54 - 146  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |       | 122      | %     | 61 - 139  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |       | 126      | %     | 50 - 150  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |       | 124      | %     | 72 - 128  |
|             | Spiked Blank    | Total Antimony (Sb)           | 2013/07/26                  |       | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |       | 94       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |       | 96       | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |       | 92       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |       | 94       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |       | 96       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  |       | 94       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  |       | 93       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |       | 94       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)           | 2013/07/26                  |       | 95       | %     | 75 - 125  |
|             |                 | Total Silver (Ag)             | 2013/07/26                  |       | 96       | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  |       | 94       | %     | 75 - 125  |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch           | QC Type                     | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |    |
|-----------------------|-----------------------------|------------------------|-----------------------------|--------|----------|-------|-----------|----|
| 7026100 WAU           | Spiked Blank                | Total Tin (Sn)         | 2013/07/26                  |        | 95       | %     | 75 - 125  |    |
|                       |                             | Total Uranium (U)      | 2013/07/26                  |        | 98       | %     | 75 - 125  |    |
|                       |                             | Total Vanadium (V)     | 2013/07/26                  |        | 94       | %     | 75 - 125  |    |
|                       |                             | Total Zinc (Zn)        | 2013/07/26                  |        | 94       | %     | 75 - 125  |    |
|                       | Method Blank                | Total Antimony (Sb)    | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Arsenic (As)     | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Barium (Ba)      | 2013/07/26                  | <10    |          |       | mg/kg     |    |
|                       |                             | Total Beryllium (Be)   | 2013/07/26                  | <0.40  |          |       | mg/kg     |    |
|                       |                             | Total Cadmium (Cd)     | 2013/07/26                  | <0.10  |          |       | mg/kg     |    |
|                       |                             | Total Chromium (Cr)    | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Cobalt (Co)      | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Copper (Cu)      | 2013/07/26                  | <5.0   |          |       | mg/kg     |    |
|                       |                             | Total Lead (Pb)        | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Mercury (Hg)     | 2013/07/26                  | <0.050 |          |       | mg/kg     |    |
|                       |                             | Total Molybdenum (Mo)  | 2013/07/26                  | <0.40  |          |       | mg/kg     |    |
|                       |                             | Total Nickel (Ni)      | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Selenium (Se)    | 2013/07/26                  | <0.50  |          |       | mg/kg     |    |
|                       |                             | Total Silver (Ag)      | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Thallium (Tl)    | 2013/07/26                  | <0.30  |          |       | mg/kg     |    |
|                       |                             | Total Tin (Sn)         | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Uranium (U)      | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Vanadium (V)     | 2013/07/26                  | <1.0   |          |       | mg/kg     |    |
|                       |                             | Total Zinc (Zn)        | 2013/07/26                  | <10    |          |       | mg/kg     |    |
|                       | RPD                         | Total Antimony (Sb)    | 2013/07/26                  | NC     |          |       | %         | 35 |
|                       |                             | Total Arsenic (As)     | 2013/07/26                  | NC     |          |       | %         | 35 |
|                       |                             | Total Barium (Ba)      | 2013/07/26                  | 4.4    |          |       | %         | 35 |
|                       |                             | Total Beryllium (Be)   | 2013/07/26                  | NC     |          |       | %         | 35 |
|                       |                             | Total Cadmium (Cd)     | 2013/07/26                  | NC     |          |       | %         | 35 |
|                       |                             | Total Chromium (Cr)    | 2013/07/26                  | 15.6   |          |       | %         | 35 |
|                       |                             | Total Cobalt (Co)      | 2013/07/26                  | 1.8    |          |       | %         | 35 |
|                       |                             | Total Copper (Cu)      | 2013/07/26                  | NC     |          |       | %         | 35 |
|                       |                             | Total Lead (Pb)        | 2013/07/26                  | 3.2    |          |       | %         | 35 |
|                       |                             | Total Mercury (Hg)     | 2013/07/26                  | NC     |          |       | %         | 35 |
| Total Molybdenum (Mo) |                             | 2013/07/26             | NC                          |        |          | %     | 35        |    |
| Total Nickel (Ni)     |                             | 2013/07/26             | 8.6                         |        |          | %     | 35        |    |
| Total Selenium (Se)   |                             | 2013/07/26             | NC                          |        |          | %     | 35        |    |
| Total Silver (Ag)     |                             | 2013/07/26             | NC                          |        |          | %     | 35        |    |
| Total Thallium (Tl)   | 2013/07/26                  | NC                     |                             |        | %        | 35    |           |    |
| Total Tin (Sn)        | 2013/07/26                  | NC                     |                             |        | %        | 35    |           |    |
| Total Uranium (U)     | 2013/07/26                  | NC                     |                             |        | %        | 35    |           |    |
| Total Vanadium (V)    | 2013/07/26                  | 2.7                    |                             |        | %        | 35    |           |    |
| Total Zinc (Zn)       | 2013/07/26                  | NC                     |                             |        | %        | 35    |           |    |
| 7026327 JSM           | Matrix Spike<br>[GZ9455-01] | Soluble Calcium (Ca)   | 2013/07/26                  |        | 101      | %     | 75 - 125  |    |
|                       |                             | Soluble Magnesium (Mg) | 2013/07/26                  |        | 104      | %     | 75 - 125  |    |
|                       |                             | Soluble Sodium (Na)    | 2013/07/26                  |        | 109      | %     | 75 - 125  |    |
|                       |                             | Soluble Potassium (K)  | 2013/07/26                  |        | 104      | %     | 75 - 125  |    |
|                       | QC Standard                 | Soluble Calcium (Ca)   | 2013/07/26                  |        | 87       | %     | 75 - 125  |    |
|                       |                             | Soluble Magnesium (Mg) | 2013/07/26                  |        | 85       | %     | 75 - 125  |    |
|                       |                             | Soluble Sodium (Na)    | 2013/07/26                  |        | 101      | %     | 75 - 125  |    |
|                       |                             | Soluble Potassium (K)  | 2013/07/26                  |        | 107      | %     | 75 - 125  |    |
|                       | Spiked Blank                | Soluble Sulphate (SO4) | 2013/07/26                  |        | 91       | %     | 78 - 122  |    |
|                       |                             | Soluble Calcium (Ca)   | 2013/07/26                  |        | 102      | %     | 75 - 125  |    |
|                       |                             | Soluble Magnesium (Mg) | 2013/07/26                  |        | 101      | %     | 75 - 125  |    |
|                       |                             | Soluble Sodium (Na)    | 2013/07/26                  |        | 103      | %     | 75 - 125  |    |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

## Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch            | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |    |
|------------------------|-----------------|-------------------------------|-----------------------------|------------|----------|-------|-----------|----|
| 7026327 JSM            | Spiked Blank    | Soluble Potassium (K)         | 2013/07/26                  |            | 99       | %     | 75 - 125  |    |
|                        | Method Blank    | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5       |          | mg/L  |           |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0       |          | mg/L  |           |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  | <2.5       |          | mg/L  |           |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  | <1.3       |          | mg/L  |           |    |
|                        | RPD [GZ9455-01] | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0       |          | mg/L  |           |    |
|                        |                 | Soluble Calcium (Ca)          | 2013/07/26                  | 13.2       |          | %     | 35        |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | NC         |          | %     | 35        |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  | 3.5        |          | %     | 35        |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  | NC         |          | %     | 35        |    |
|                        |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | NC         |          | %     | 35        |    |
|                        |                 |                               |                             |            |          |       |           |    |
| 7026562 KD5            | Matrix Spike    | Soluble Chloride (Cl)         | 2013/07/26                  |            | 102      | %     | 75 - 125  |    |
|                        | QC Standard     | Soluble Chloride (Cl)         | 2013/07/26                  |            | 96       | %     | 75 - 125  |    |
|                        | Spiked Blank    | Soluble Chloride (Cl)         | 2013/07/26                  |            | 100      | %     | 75 - 125  |    |
|                        | Method Blank    | Soluble Chloride (Cl)         | 2013/07/26                  | <5.0       |          | mg/L  |           |    |
|                        | RPD             | Soluble Chloride (Cl)         | 2013/07/26                  | NC         |          | %     | 35        |    |
| 7026671 NC3            | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |            | 103      | %     | 75 - 125  |    |
|                        | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |            | 104      | %     | 75 - 125  |    |
|                        | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10      |          | mg/kg |           |    |
|                        | RPD             | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC         |          | %     | 35        |    |
| 7026924 JSM            | Matrix Spike    | Soluble Calcium (Ca)          | 2013/07/26                  |            | 97       | %     | 75 - 125  |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |            | 101      | %     | 75 - 125  |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  |            | 106      | %     | 75 - 125  |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  |            | 101      | %     | 75 - 125  |    |
|                        | QC Standard     | Soluble Calcium (Ca)          | 2013/07/26                  |            | 95       | %     | 75 - 125  |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |            | 96       | %     | 75 - 125  |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  |            | 108      | %     | 75 - 125  |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  |            | 115      | %     | 75 - 125  |    |
|                        |                 | Soluble Sulphate (SO4)        | 2013/07/26                  |            | 98       | %     | 78 - 122  |    |
|                        | Spiked Blank    | Soluble Calcium (Ca)          | 2013/07/26                  |            | 96       | %     | 75 - 125  |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  |            | 101      | %     | 75 - 125  |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  |            | 106      | %     | 75 - 125  |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  |            | 101      | %     | 75 - 125  |    |
|                        | Method Blank    | Soluble Calcium (Ca)          | 2013/07/26                  | <1.5       |          | mg/L  |           |    |
|                        |                 | Soluble Magnesium (Mg)        | 2013/07/26                  | <1.0       |          | mg/L  |           |    |
|                        |                 | Soluble Sodium (Na)           | 2013/07/26                  | <2.5       |          | mg/L  |           |    |
|                        |                 | Soluble Potassium (K)         | 2013/07/26                  | <1.3       |          | mg/L  |           |    |
|                        |                 | Soluble Sulphate (SO4)        | 2013/07/26                  | <5.0       |          | mg/L  |           |    |
|                        |                 | RPD                           | Soluble Calcium (Ca)        | 2013/07/26 | 13.5     |       | %         | 35 |
|                        |                 |                               | Soluble Magnesium (Mg)      | 2013/07/26 | NC       |       | %         | 35 |
|                        |                 |                               | Soluble Sodium (Na)         | 2013/07/26 | 0.06     |       | %         | 35 |
| Soluble Potassium (K)  |                 |                               | 2013/07/26                  | NC         |          | %     | 35        |    |
| Soluble Sulphate (SO4) |                 |                               | 2013/07/26                  | 3.0        |          | %     | 35        |    |
|                        |                 |                               |                             |            |          |       |           |    |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B363840

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).




Stephanie Gilbert, Senior Analyst



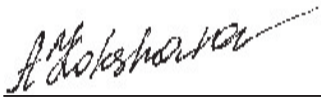
Daniel Reslan, Volatiles Supervisor



Karla Offord, Supervisor, Extractable Hydrocarbons



Carol Gebhart, Senior Analyst



Anna Koksharova, Senior Analyst

Maxxam Analytics - Partial/Rush Results

Validation Signature Page

Maxxam Job #: B363840

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics - Partial/Rush Results



Calgary: 4000 19th St. NE, T2E 6P8. Ph: (403) 291-3077, Fax: (403) 735-2240, Toll free: (800) 386-7247  
 Edmonton: 9331 - 48 Street, T6B 2R4. Ph: (780) 577-7100, Fax: (780) 450-1187, Toll free: (877) 465-8889  
 www.maxxamanalytics.com

Chain of Custody

A134527

07/1220(4)

Page: 1 of 3

Company: **IEG Consultants Ltd**  
 Contact: **Nicole Wills**  
 Address: **2618 Hopewell Place NE**  
 Prov: **Calgary, AB** PC: **T1Y 7J7**  
 Contact #s: Ph: **403.829.3048** Cell:

Report To: **Same as invoice**   
 Prov: PC:  
 Ph: Cell:

Report Distribution (E-Mail):  
**nwills@klohn.com**

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.

PO #:  
 Project # / Name: **A0402A05**  
 Site Location: **Camp Farewell**  
 Quote #:  
 Sampled By: **Nicole Wills**  
 SERVICE REQUESTED:  RUSH (Contact lab to reserve) Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID    | Depth (unit) | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL       |                   |                               |            |                       | WATER                   |         |      |            |            | Other Analysis |      |   |     |     | HOLD - Do not Analyze | # of Containers Submitted |       |                               |           |         |
|--------------|--------------|---------------------|----------------------------------|------------|-------------------|-------------------------------|------------|-----------------------|-------------------------|---------|------|------------|------------|----------------|------|---|-----|-----|-----------------------|---------------------------|-------|-------------------------------|-----------|---------|
|              |              |                     |                                  | BTEX F1-F4 | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4 | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | VOCs | BTEX F1-F2 | BTEX F1-F4 | Routine Water  | Turb | F | TOC | DOC |                       |                           | Total | Regulated Metals (CCME / AT1) | Dissolved | Mercury |
| 1 TP#1       | 0-0.6m       | Soil                | 13/07/23 15:30                   | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 2 TP#2       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 3 TP#3       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 4 TP#4       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 5 TP#5       |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 6 TP#17      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 7 TP#18      |              |                     |                                  | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         | 35/1B   |
| 8 DS13-001   |              |                     | 07-20-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         |         |
| 9 EX-13-1LB  | 7m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         |         |
| 10 EX-13-1JB | 6m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         |         |
| 11 EX-13-1KE | 3.5m         |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         |         |
| 12 EX-13-1LE | 4m           |                     | 07-21-13                         | X          | X                 | X                             | X          | X                     | X                       | X       | X    | X          | X          | X              | X    | X | X   | X   | X                     | X                         | X     | X                             | X         |         |

Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print): **Nicole Wills / [Signature]** Date (YY/MM/DD): **13/07/23** Time (24:00): **20:00**  
 Relinquished By (Signature/Print): \_\_\_\_\_ Date (YY/MM/DD): \_\_\_\_\_ Time (24:00): \_\_\_\_\_  
 Special Instructions: **Please rush the analysis of DS13-001** # of Jars Used & Not Submitted: \_\_\_\_\_

LAB USE ONLY  
 Received By: **Amaida [Signature]** Date: **07/10/23** Time: **10:23** Maxxam Job #: **B 363840**  
**L'Hirondelle 20130725@**  
 Custody Seal: \_\_\_\_\_ Temperature: \_\_\_\_\_ Ice: \_\_\_\_\_  
 Lab Comments: **14,14,13**  
**15,14,15 > B**  
**absent** **7,6,7 > j**  
**8,5,6 > j**  
**present**













Your Project #: A04012A05  
Site Location: CAMP FAREWELL  
Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
500-2618  
HOPEWELL PLACE NE  
CALGARY, AB  
CANADA T1Y 7J7

**Report Date: 2013/07/28**

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B363840**  
**Received: 2013/07/25, 10:23**

Sample Matrix: Soil  
# Samples Received: 27

| Analyses                               | Quantity | Date       | Date       | Laboratory Method | Analytical Method |
|--|----------|------------|------------|-------------------|-------------------|
|  |          | Extracted  | Analyzed   |                   |                   |
| Boron (Hot Water Soluble)              | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 1        | 2013/07/27 | 2013/07/27 | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 26       | 2013/07/25 | 2013/07/26 | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/26 | 2013/07/27 | AB SOP-00039      | CCME, EPA 8260    |
| BTEX in Leachates by HS GC/MS          | 1        | 2013/07/25 | 2013/07/26 | AB SOP-00039      | EPA 1311/8260C    |
| Cation/EC Ratio                        | 26       | N/A        | 2013/07/26 |                   | CALCULATION       |
| Cation/EC Ratio                        | 1        | N/A        | 2013/07/27 |                   | CALCULATION       |
| Chloride (Soluble)                     | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00020      | SSMA 4500 CL-E    |
| Chloride (Soluble)                     | 1        | 2013/07/28 | 2013/07/28 | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 26       | 2013/07/25 | 2013/07/26 | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26 | 2013/07/26 | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00004      | SSMA 15.3         |
| Conductivity @25C (Soluble)            | 1        | 2013/07/28 | 2013/07/28 | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 26       | 2013/07/25 | 2013/07/25 | AB SOP-00040      | CCME PHC-CWS      |
|  |          |            |            | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/26 | 2013/07/28 | AB SOP-00040      | CCME PHC-CWS      |
|  |          |            |            | AB SOP-00036      |                   |
| Flash Point                            | 1        | N/A        | 2013/07/26 | AB SOP-00062      | ASTM D3828-12 A   |
| ICPMS Metals on TCLP Leachate          | 1        | 2013/07/25 | 2013/07/26 | AB SOP-00043      | EPA 200.8         |
| Elements by ICPMS - Soils              | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00043      | EPA 200.8         |
| Elements by ICPMS - Soils              | 1        | 2013/07/27 | 2013/07/27 | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 26       | N/A        | 2013/07/26 | AB WI-00065       | SM 1030E          |
| Ion Balance                            | 1        | N/A        | 2013/07/27 | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 26       | N/A        | 2013/07/26 | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 1        | N/A        | 2013/07/27 | AB WI-00065       | SM 1030E          |
| Moisture                               | 26       | N/A        | 2013/07/26 | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A        | 2013/07/27 | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 1        | N/A        | 2013/07/27 | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 1        | 2013/07/25 | 2013/07/27 | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |            |            | AB SOP-00036      |                   |
| Free Liquid (Paint filter)             | 1        | N/A        | 2013/07/26 | AB SOP-00047      | EPA SW846/9095B   |
| pH @25C (1:2 Calcium Chloride Extract) | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/27 | 2013/07/27 | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:1 extract, solid waste)     | 1        | 2013/07/26 | 2013/07/26 | AB SOP-00006      | SSMA 16.2         |
| Sodium Adsorption Ratio                | 26       | N/A        | 2013/07/26 | AB WI-00065       | SSMA 15.4.4       |
| Sodium Adsorption Ratio                | 1        | N/A        | 2013/07/27 | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)               | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00042      | EPA 200.7         |
| Ca,Mg,Na,K,SO4 (Soluble)               | 1        | 2013/07/28 | 2013/07/28 | AB SOP-00042      | EPA 200.7         |



Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/28**

**CERTIFICATE OF ANALYSIS**

-2-

Sample Matrix: Soil  
 # Samples Received: 27

| Analyses                           | Quantity | Date       |            | Laboratory Method | Analytical Method |
|------------------------------------|----------|------------|------------|-------------------|-------------------|
|                                    |          | Extracted  | Analyzed   |                   |                   |
| Soluble Paste                      | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00033      | SSMA 15.2         |
| Soluble Paste                      | 1        | 2013/07/27 | 2013/07/27 | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation           | 27       | N/A        | 2013/07/26 |                   | CALCULATION       |
| Theoretical Gypsum Requirement (1) | 26       | N/A        | 2013/07/26 | CAL WI-00087      | CJSS 79:449-455   |
| Theoretical Gypsum Requirement (1) | 1        | N/A        | 2013/07/27 | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key

 Jennifer Thompson  
 28 Jul 2013 15:40:05 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugene@maxxam.ca  
 Phone# (780) 577-7144

=====  
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2



Maxxam Job #: B363840  
Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                     |             |                         |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9437                  | GZ9438      | GZ9439      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23              | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527                 | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>TP#3</b> | <b>TP#4</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.3     | 3.5     | 3.7 | 3.7     | 4.1     | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 46      | N/A | 22      | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 58      | <50     | N/A | <50     | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | <0.0050 | <0.0050 | 0.0050 | 7024356 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | <0.010  | <0.010  | 0.010  | 7024356 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 99      | N/A | 99      | 101     | N/A    | 7024356 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | N/A | 99      | 97      | N/A    | 7024356 |
| D10-ETHYLBENZENE (sur.)       | %     | 90      | 93      | N/A | 91      | 90      | N/A    | 7024356 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 100     | 99      | N/A | 97      | 100     | N/A    | 7024356 |
| O-TERPHENYL (sur.)            | %     | 104     | 104     | N/A | 105     | 96      | N/A    | 7022792 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |             |              |                 |              |                 |            |                 |
|---------------|--------------|-------------|--------------|-----------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9440      | GZ9441       |                 | GZ9442       | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/23  | 2013/07/23   |                 | 2013/07/23   | 2013/07/20      |            |                 |
| COC Number    |              | A134527     | A134527      |                 | A134527      | A134527         |            |                 |
|               | <b>UNITS</b> | <b>TP#5</b> | <b>TP#17</b> | <b>QC Batch</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |       |        |         |
|-------------------------------|-------|---------|---------|---------|---------|-------|--------|---------|
| Moisture                      | %     | 3.1     | 2.4     | 7024996 | 5.0     | 22    | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 7022792 | 260     | 860   | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 61      | <50     | 7022792 | 410     | 790   | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | 7022792 | <50     | 200   | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | 7022792 | Yes     | Yes   | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |         |       |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | 7024356 | <0.0050 | 0.059 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 0.83  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 7024356 | <0.010  | 0.38  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 4.5   | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 2.9   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 1.7   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | 7024356 | <12     | 100   | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | 7024356 | <12     | 110   | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 112     | 7024356 | 102     | 114   | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 97      | 7024356 | 100     | 78    | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 92      | 106     | 7024356 | 120     | 124   | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 102     | 100     | 7024356 | 106     | 110   | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | 98      | 7022792 | 106     | 111   | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                  |                  |                  |                  |                  |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9444           | GZ9445           | GZ9446           | GZ9447           | GZ9448           |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134527          | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-ILB</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |       |       |         |        |         |        |         |
|-------------------------------|-------|-------|-------|---------|--------|---------|--------|---------|
| <b>Physical Properties</b>    |       |       |       |         |        |         |        |         |
| Moisture                      | %     | 13    | 17    | 8.3     | 6.6    | 13      | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |       |       |         |        |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 530   | 2500  | 400     | 810    | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 97    | 970   | <50     | 100    | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50   | 380   | <50     | <50    | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes   | Yes   | Yes     | Yes    | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |       |       |         |        |         |        |         |
| Benzene                       | mg/kg | 0.018 | 0.069 | <0.0050 | 0.0090 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | 0.12  | 1.2   | 0.026   | 0.062  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | 0.12  | 1.4   | 0.022   | 0.026  | 0.014   | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | 3.9   | 22    | 0.27    | 0.33   | 0.15    | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | 0.95  | 13    | 0.083   | 0.22   | 0.095   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | 3.0   | 9.1   | 0.19    | 0.11   | 0.054   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | 200   | 370   | 380     | 13     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | 210   | 400   | 380     | 14     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |       |       |         |        |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108   | 110   | 106     | 102    | 107     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 80    | 78    | 98      | 91     | 89      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 127   | 121   | 176 (1) | 120    | 120     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109   | 105   | 106     | 100    | 103     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 100   | 114   | 99      | 100    | 101     | N/A    | 7022792 |

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Surrogate recovery exceeds acceptance criteria due to matrix interference. Reanalysis yields similar results.



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9449           | GZ9449                   | GZ9453               | GZ9454               | GZ9454                       |            |                 |
|---------------|--------------|------------------|--------------------------|----------------------|----------------------|------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/21       | 2013/07/21               | 2013/07/22           | 2013/07/22           | 2013/07/22                   |            |                 |
| COC Number    |              | A134528          | A134528                  | A134528              | A134528              | A134528                      |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IDB</b> | <b>EX-13-IDB Lab-Dup</b> | <b>EX-13-AW (3M)</b> | <b>EX-13-AW (7M)</b> | <b>EX-13-AW (7M) Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |        |     |        |         |
|-------------------------------|-------|---------|---------|---------|--------|-----|--------|---------|
| Moisture                      | %     | 14      | N/A     | 13      | 12     | N/A | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |        |     |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | <10     | <10    | <10 | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes    | Yes | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |        |     |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.061  | N/A | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | 0.080  | N/A | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010 | N/A | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020 | N/A | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |     |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108     | 109     | 104     | 104    | N/A | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 100     | 94      | 97     | N/A | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121     | 122     | 114     | 93     | N/A | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105     | 107     | 87      | 101    | N/A | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | N/A     | 91      | 104    | 108 | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B363840  
Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                          |                          |                                      |                          |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9455                   | GZ9456                   | GZ9457                   | GZ9457                               | GZ9458                   |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                           | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  | A134528                              | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(6M)</b> | <b>EX-13-CW<br/>(5M)</b> | <b>EX-13-CW<br/>(5M)<br/>Lab-Dup</b> | <b>EX-13-DW<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |        |         |     |         |        |         |
|-------------------------------|-------|---------|--------|---------|-----|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |        |         |     |         |        |         |
| Moisture                      | %     | 14      | 23     | 13      | 12  | 21      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |        |         |     |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10    | <10     | N/A | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 60      | <50    | <50     | N/A | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50    | <50     | N/A | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes    | Yes     | N/A | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |        |         |     |         |        |         |
| Benzene                       | mg/kg | <0.0050 | 0.0084 | <0.0050 | N/A | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010 | <0.010  | N/A | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |        |         |     |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 110    | 106     | N/A | 109     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 96     | 95      | N/A | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 95      | 97     | 93      | N/A | 94      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 99      | 100    | 94      | N/A | 97      | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 109     | 105    | 108     | N/A | 97      | N/A    | 7022792 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9465                     | GZ9466                   | GZ9467                   | GZ9468                   | GZ9469                     |            |                 |
|---------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/22                 | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                    | A134528                  | A134528                  | A134528                  | A134516                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 3.2     | 17      | 4.7     | 27      | 25      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10     | 12      | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 100     | 230     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.037   | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 108     | 101     | 112     | 111     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 94      | 95      | 97      | 95      | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 91      | 92      | 93      | 95      | 89      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 94      | 95      | 101     | 97      | 109     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 106     | 95      | 117     | 108     | 102     | N/A    | 7021306 |

N/A = Not Applicable  
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Maxxam Job #: B363840  
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KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                 |                      |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ9471                   |                 | HA0382               |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/21           |            |                 |
| COC Number    |              | A134516                  |                 | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |       |        |         |
|--|-------|---------|---------|-------|--------|---------|
| Moisture   | %     | 6.7     | 7025403 | 18    | 0.30   | 7027480 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 7021306 | 120   | 10     | 7015681 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 7021306 | 100   | 50     | 7015681 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 7021306 | <50   | 50     | 7015681 |
| Reached Baseline at C50                                  | mg/kg | Yes     | 7021306 | Yes   | N/A    | 7015681 |
| <b>Volatiles</b>   |       |         |         |       |        |         |
| Benzene  | mg/kg | <0.0050 | 7024383 | 0.11  | 0.0050 | 7020731 |
| Toluene  | mg/kg | <0.020  | 7024383 | 0.14  | 0.020  | 7020731 |
| Ethylbenzene   | mg/kg | <0.010  | 7024383 | 0.097 | 0.010  | 7020731 |
| Xylenes (Total)  | mg/kg | <0.040  | 7024383 | 1.4   | 0.040  | 7020731 |
| m & p-Xylene   | mg/kg | <0.040  | 7024383 | 0.87  | 0.040  | 7020731 |
| o-Xylene   | mg/kg | <0.020  | 7024383 | 0.54  | 0.020  | 7020731 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 7024383 | 34    | 12     | 7020731 |
| (C6-C10)   | mg/kg | <12     | 7024383 | 36    | 12     | 7020731 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 103     | 7024383 | 122   | N/A    | 7020731 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 96      | 7024383 | 101   | N/A    | 7020731 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 95      | 7024383 | 123   | N/A    | 7020731 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 102     | 7024383 | 96    | N/A    | 7020731 |
| O-TERPHENYL (sur.)                                       | %     | 102     | 7021306 | 84    | N/A    | 7015681 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |       |        |         |

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                 |             |                         |            |                 |
|---------------|--------------|---------------------|------------|-----------------|-------------|-------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              |            |                 | GZ9437      | GZ9437                  |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 |            |                 | 2013/07/23  | 2013/07/23              |            |                 |
| COC Number    |              | A134527             |            |                 | A134527     | A134527                 |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>RDL</b> | <b>QC Batch</b> | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |         |       |      |       |         |
|--------------------------------|-----------|-------|-------|---------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 7022359 | 2.2   | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.5   | N/A   | 7022359 | 3.4   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 7021708 | 11    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.0   | 0.010 | 7022358 | 1.5   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.60  | 7020006 | 12    | N/A  | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.3   | 0.40  | 7020006 | 1.8   | N/A  | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 9.2   | 1.0   | 7020006 | 6.5   | N/A  | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.9   | 0.52  | 7020006 | 4.5   | N/A  | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 6.8   | 2.0   | 7020006 | 3.5   | N/A  | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 2.0   | 7020006 | 31    | N/A  | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |         |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 7026083 | 11    | N/A  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.30  | 0.020 | 7024503 | 0.31  | N/A  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.61  | N/A   | 7024030 | 7.76  | 7.84 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.93  | 0.10  | 7021713 | 0.81  | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 7026327 | 35    | N/A  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 5.6   | 1.0   | 7026327 | 5.6   | N/A  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 23    | 2.5   | 7026327 | 19    | N/A  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 7.1   | 1.3   | 7026327 | 14    | N/A  | 1.3   | 7026327 |
| Saturation %                   | %         | 40    | N/A   | 7024196 | 33    | N/A  | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 61    | 5.0   | 7026327 | 93    | N/A  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | 7021714 | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
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Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

### SOIL SALINITY 4 (SOIL)

|               |              |             |            |             |            |             |            |              |            |                 |
|---------------|--------------|-------------|------------|-------------|------------|-------------|------------|--------------|------------|-----------------|
| Maxxam ID     |              | GZ9438      |            | GZ9439      |            | GZ9440      |            | GZ9441       |            |                 |
| Sampling Date |              | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23   |            |                 |
| COC Number    |              | A134527     |            | A134527     |            | A134527     |            | A134527      |            |                 |
|               | <b>UNITS</b> | <b>TP#3</b> | <b>RDL</b> | <b>TP#4</b> | <b>RDL</b> | <b>TP#5</b> | <b>RDL</b> | <b>TP#17</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.49  | N/A   | 0.89  | N/A   | 0.63  | N/A   | 0.21  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 1.2   | N/A   | 2.9   | N/A   | 1.9   | N/A   | 1.2   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 14    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.5   | 0.010 | 3.2   | 0.010 | 3.0   | 0.010 | 5.7   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 2.3   | 0.44  | 7.6   | 0.48  | 4.7   | 0.47  | 3.3   | 0.48  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.44  | 0.30  | 1.5   | 0.32  | 0.84  | 0.31  | 0.57  | 0.32  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.74  | 6.6   | 0.80  | 4.1   | 0.78  | 3.0   | 0.81  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.0   | 0.39  | 5.0   | 0.42  | 4.0   | 0.41  | 1.4   | 0.42  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <1.5  | 1.5   | <1.6  | 1.6   | <1.6  | 1.6   | <1.6  | 1.6   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 7.0   | 1.5   | 14    | 1.6   | 9.4   | 1.6   | 3.2   | 1.6   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.020 | 0.23  | 0.020 | 0.15  | 0.020 | 0.085 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.17  | N/A   | 7.60  | N/A   | 7.53  | N/A   | 6.67  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 1.1   | 0.10  | 1.0   | 0.10  | 0.82  | 0.10  | 0.71  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 7.8   | 1.5   | 24    | 1.5   | 15    | 1.5   | 10    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 1.5   | 1.0   | 4.6   | 1.0   | 2.7   | 1.0   | 1.8   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 21    | 2.5   | 13    | 2.5   | 9.4   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 6.9   | 1.3   | 16    | 1.3   | 13    | 1.3   | 4.5   | 1.3   | 7026327 |
| Saturation %                   | %         | 30    | N/A   | 32    | N/A   | 31    | N/A   | 32    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 24    | 5.0   | 43    | 5.0   | 30    | 5.0   | 9.9   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
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KLOHN CRIPPEN BERGER LTD  
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### SOIL SALINITY 4 (SOIL)

|               |              |              |            |                 |            |                  |            |                  |            |                 |
|---------------|--------------|--------------|------------|-----------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9442       |            | GZ9443          |            | GZ9444           |            | GZ9445           |            |                 |
| Sampling Date |              | 2013/07/23   |            | 2013/07/20      |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527      |            | A134527         |            | A134527          |            | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#18</b> | <b>RDL</b> | <b>DS13-001</b> | <b>RDL</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>EX-13-IJB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.76  | N/A   | 12    | N/A   | 4.2   | N/A   | 16    | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.9   | N/A   | 12    | N/A   | 5.1   | N/A   | 16    | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 13    | 0.10  | 9.3   | 0.10  | 11    | 0.10  | 11    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 3.8   | 0.010 | 1.0   | 0.010 | 1.2   | 0.010 | 1.0   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.63  | 28    | 0.55  | 20    | 0.53  | 81    | 0.57  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.42  | 7.4   | 0.37  | 4.2   | 0.35  | 13    | 0.38  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.1   | 1.1   | 50    | 0.92  | 9.0   | 0.88  | 23    | 0.95  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 4.5   | 0.54  | 5.8   | 0.48  | 2.9   | 0.46  | 4.7   | 0.49  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <2.1  | 2.1   | 72    | 1.8   | 4.0   | 1.8   | 34    | 1.9   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 15    | 2.1   | 110   | 1.8   | 65    | 1.8   | 250   | 1.9   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | 200   | 5.0   | 11    | 5.0   | 90    | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 1.3   | 0.020 | 0.45  | 0.020 | 1.5   | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.53  | N/A   | 7.16  | N/A   | 7.23  | N/A   | 6.90  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.41  | 0.10  | 3.6   | 0.10  | 0.80  | 0.10  | 1.0   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 76    | 1.5   | 56    | 1.5   | 210   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 20    | 1.0   | 12    | 1.0   | 35    | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 9.7   | 2.5   | 130   | 2.5   | 25    | 2.5   | 60    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 11    | 1.3   | 16    | 1.3   | 8.3   | 1.3   | 12    | 1.3   | 7026327 |
| Saturation %                   | %         | 42    | N/A   | 37    | N/A   | 35    | N/A   | 38    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 36    | 5.0   | 290   | 5.0   | 180   | 5.0   | 650   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit





Maxxam Job #: B363840  
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KLOHN CRIPPEN BERGER LTD  
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 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

### SOIL SALINITY 4 (SOIL)

|               |              |                  |            |                  |            |                  |            |                  |            |                 |
|---------------|--------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9446           |            | GZ9447           |            | GZ9448           |            | GZ9449           |            |                 |
| Sampling Date |              | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527          |            | A134527          |            | A134528          |            | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IKE</b> | <b>RDL</b> | <b>EX-13-ILE</b> | <b>RDL</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>EX-13-IDB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 3.5   | N/A   | 1.3   | N/A   | 1.8   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.3   | N/A   | 4.3   | N/A   | 2.8   | N/A   | 2.8   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.4   | 0.010 | 1.2   | 0.010 | 2.0   | 0.010 | 1.5   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.53  | 18    | 0.54  | 8.5   | 0.48  | 10    | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.2   | 0.35  | 3.2   | 0.36  | 2.1   | 0.32  | 2.4   | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.89  | 7.2   | 0.90  | 5.2   | 0.79  | 4.6   | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 1.6   | 0.47  | 1.8   | 0.41  | 1.5   | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.1   | 1.8   | 7.2   | 1.8   | 5.3   | 1.6   | 2.9   | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 1.8   | 50    | 1.8   | 13    | 1.6   | 26    | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.9   | 5.0   | 20    | 5.0   | 17    | 5.0   | 8.5   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.21  | 0.020 | 0.37  | 0.020 | 0.23  | 0.020 | 0.24  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.26  | N/A   | 6.99  | N/A   | 7.64  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.68  | 0.10  | 0.73  | 0.10  | 0.58  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 51    | 1.5   | 27    | 1.5   | 31    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 3.3   | 1.0   | 9.0   | 1.0   | 6.7   | 1.0   | 7.2   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 10    | 2.5   | 20    | 2.5   | 16    | 2.5   | 14    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 4.5   | 1.3   | 5.7   | 1.3   | 4.4   | 1.3   | 7026327 |
| Saturation %                   | %         | 36    | N/A   | 36    | N/A   | 32    | N/A   | 33    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 68    | 5.0   | 140   | 5.0   | 42    | 5.0   | 77    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                          |            |                          |                                      |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|--------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            | GZ9454                   |            | GZ9455                   | GZ9455                               |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               | 2013/07/22                           |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  | A134528                              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>EX-13-AW<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(1M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |      |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 2.0   | N/A   | 2.7   | N/A   | 0.94  | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.8   | N/A   | 4.4   | N/A   | 2.9   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 10    | 0.10  | 15    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.9   | 0.010 | 1.6   | 0.010 | 3.1   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 18    | 0.68  | 16    | 0.53  | 6.8   | N/A  | 0.74  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.8   | 0.45  | 2.3   | 0.35  | 1.4   | N/A  | 0.49  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 11    | 1.1   | 10    | 0.88  | 22    | N/A  | 1.2   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.3   | 0.59  | 3.6   | 0.46  | 1.1   | N/A  | 0.64  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 16    | 2.3   | 12    | 1.8   | 9.0   | N/A  | 2.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 22    | 2.3   | 29    | 1.8   | 10    | N/A  | 2.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 35    | 5.0   | 35    | 5.0   | 18    | 10   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.42  | 0.020 | 0.19  | 0.19 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.12  | N/A   | 7.24  | N/A   | 7.00  | N/A  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.89  | 0.10  | 1.1   | 0.10  | 2.9   | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 40    | 1.5   | 46    | 1.5   | 14    | 12   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 8.3   | 1.0   | 6.4   | 1.0   | 2.8   | 2.3  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 24    | 2.5   | 30    | 2.5   | 45    | 43   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 5.0   | 1.3   | 10    | 1.3   | 2.1   | 1.6  | 1.3   | 7026327 |
| Saturation %                   | %         | 45    | N/A   | 35    | N/A   | 49    | 49   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 48    | 5.0   | 83    | 5.0   | 20    | 18   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                          |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9456                   |            | GZ9457                   |            | GZ9458                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW<br/>(6M)</b> | <b>RDL</b> | <b>EX-13-CW<br/>(5M)</b> | <b>RDL</b> | <b>EX-13-DW<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |         |       |       |       |      |       |         |
|--------------------------------|-----------|---------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 20      | N/A   | 3.3   | N/A   | 18   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 22      | N/A   | 4.1   | N/A   | 19   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 9.9     | 0.10  | 10    | 0.10  | 9.7  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.1     | 0.010 | 1.2   | 0.010 | 1.0  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 34      | 0.50  | 11    | 0.51  | 42   | 0.54  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 8.4     | 0.34  | 2.1   | 0.34  | 12   | 0.36  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 110     | 0.84  | 13    | 0.85  | 83   | 0.91  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 3.9     | 0.44  | 2.6   | 0.44  | 3.7  | 0.47  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 150     | 3.4   | 7.3   | 1.7   | 140  | 1.8   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 120     | 1.7   | 44    | 1.7   | 120  | 1.8   | 7022361 |
| <b>Soluble Parameters</b>      |           |         |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 440 (1) | 10    | 21    | 5.0   | 400  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 2.2     | 0.020 | 0.40  | 0.020 | 1.9  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.39    | N/A   | 7.62  | N/A   | 7.19 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 7.7     | 0.10  | 1.7   | 0.10  | 4.9  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 100     | 1.5   | 33    | 1.5   | 120  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 25      | 1.0   | 6.3   | 1.0   | 33   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 330     | 2.5   | 39    | 2.5   | 230  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 12      | 1.3   | 7.7   | 1.3   | 10   | 1.3   | 7026327 |
| Saturation %                   | %         | 34      | N/A   | 34    | N/A   | 36   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 360     | 5.0   | 130   | 5.0   | 330  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | 1.1     | 0.10  | <0.10 | 0.10  | 0.24 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

( 1 ) Detection limits raised due to dilution to bring analyte within the calibrated range.



Maxxam Job #: B363840  
Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                            |            |                          |            |                 |                          |            |                 |
|---------------|--------------|----------------------------|------------|--------------------------|------------|-----------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     |            | GZ9466                   |            |                 | GZ9467                   |            |                 |
| Sampling Date |              | 2013/07/22                 |            | 2013/07/22               |            |                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                    |            | A134528                  |            |                 | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-DN<br/>(7M)</b> | <b>RDL</b> | <b>QC Batch</b> | <b>EX-13-EN<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.1   | N/A   | 7.0   | N/A   | 7022359 | 0.23  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.7   | N/A   | 7.1   | N/A   | 7022359 | 1.7   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 10    | 0.10  | 7021708 | 14    | 0.10  | 7022350 |
| Ion Balance                    | N/A       | 2.4   | 0.010 | 1.0   | 0.010 | 7022358 | 7.4   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 10    | 0.59  | 22    | 0.45  | 7022361 | 4.4   | 0.44  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.39  | 5.7   | 0.30  | 7022361 | 0.61  | 0.29  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.7   | 0.98  | 12    | 0.75  | 7022361 | 4.5   | 0.73  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 7.7   | 0.51  | 2.9   | 0.39  | 7022361 | 0.74  | 0.38  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.4   | 2.0   | 5.3   | 1.5   | 7022361 | <1.5  | 1.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 17    | 2.0   | 93    | 1.5   | 7022361 | 3.1   | 1.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.6   | 5.0   | 18    | 5.0   | 7026562 | <5.0  | 5.0   | 7026562 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 0.71  | 0.020 | 7025245 | 0.12  | 0.020 | 7025245 |
| Soluble (CaCl2) pH             | N/A       | 7.25  | N/A   | 7.46  | N/A   | 7024049 | 7.74  | N/A   | 7024049 |
| Sodium Adsorption Ratio        | N/A       | 0.57  | 0.10  | 1.1   | 0.10  | 7021713 | 0.99  | 0.10  | 7022360 |
| Soluble Calcium (Ca)           | mg/L      | 26    | 1.5   | 72    | 1.5   | 7026924 | 15    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 19    | 1.0   | 7026924 | 2.1   | 1.0   | 7026924 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 40    | 2.5   | 7026924 | 15    | 2.5   | 7026924 |
| Soluble Potassium (K)          | mg/L      | 20    | 1.3   | 9.8   | 1.3   | 7026924 | 2.5   | 1.3   | 7026924 |
| Saturation %                   | %         | 39    | N/A   | 30    | N/A   | 7024253 | 29    | N/A   | 7024253 |
| Soluble Sulphate (SO4)         | mg/L      | 42    | 5.0   | 310   | 5.0   | 7026924 | 11    | 5.0   | 7026924 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 | <0.10 | 0.10  | 7022362 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                            |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|----------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9468                   |            | GZ9469                     |            | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22                 |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134516                    |            | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |       |       |       |       |         |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                        | meq/L     | 19    | N/A   | 1.0   | N/A   | 2.9   | N/A   | 7022359 |
| Cation Sum                       | meq/L     | 18    | N/A   | 2.2   | N/A   | 4.7   | N/A   | 7022359 |
| Cation/EC Ratio                  | N/A       | 12    | 0.10  | 13    | 0.10  | 12    | 0.10  | 7022350 |
| Ion Balance                      | N/A       | 0.98  | 0.010 | 2.1   | 0.010 | 1.6   | 0.010 | 7022358 |
| Calculated Calcium (Ca)          | mg/kg     | 90    | 0.62  | 25    | 2.1   | 28    | 0.82  | 7022361 |
| Calculated Magnesium (Mg)        | mg/kg     | 27    | 0.41  | 7.3   | 1.4   | 7.4   | 0.55  | 7022361 |
| Calculated Sodium (Na)           | mg/kg     | 16    | 1.0   | 28    | 3.5   | 4.9   | 1.4   | 7022361 |
| Calculated Potassium (K)         | mg/kg     | 3.7   | 0.53  | 1.9   | 1.8   | 14    | 0.71  | 7022361 |
| Calculated Chloride (Cl)         | mg/kg     | 32    | 2.1   | 10    | 7.0   | 4.0   | 2.7   | 7022361 |
| Calculated Sulphate (SO4)        | mg/kg     | 320   | 2.1   | 56    | 7.0   | 70    | 2.7   | 7022361 |
| <b>Soluble Parameters</b>        |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | 77    | 5.0   | 7.4   | 5.0   | 7.3   | 5.0   | 7026562 |
| Soluble Conductivity             | dS/m      | 1.5   | 0.020 | 0.18  | 0.020 | 0.41  | 0.020 | 7025245 |
| Soluble (CaCl2) pH               | N/A       | 6.72  | N/A   | 6.10  | N/A   | 6.64  | N/A   | 7024049 |
| Sodium Adsorption Ratio          | N/A       | 0.58  | 0.10  | 1.1   | 0.10  | 0.29  | 0.10  | 7022360 |
| Soluble Calcium (Ca)             | mg/L      | 220   | 1.5   | 17    | 1.5   | 51    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)           | mg/L      | 66    | 1.0   | 5.2   | 1.0   | 13    | 1.0   | 7026924 |
| Soluble Sodium (Na)              | mg/L      | 39    | 2.5   | 20    | 2.5   | 8.9   | 2.5   | 7026924 |
| Soluble Potassium (K)            | mg/L      | 8.9   | 1.3   | 1.4   | 1.3   | 25    | 1.3   | 7026924 |
| Saturation %                     | %         | 41    | N/A   | 140   | N/A   | 55    | N/A   | 7024253 |
| Soluble Sulphate (SO4)           | mg/L      | 790   | 5.0   | 40    | 5.0   | 130   | 5.0   | 7026924 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7022362 |
| RDL = Reportable Detection Limit |           |       |       |       |       |       |       |         |

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                 |
|---------------|--------------|----------------------|------------|-----------------|
| Maxxam ID     |              | HA0382               |            |                 |
| Sampling Date |              | 2013/07/21           |            |                 |
| COC Number    |              | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |      |       |         |
|----------------------------------|-----------|------|-------|---------|
| Anion Sum                        | meq/L     | 6.0  | N/A   | 7025961 |
| Cation Sum                       | meq/L     | 6.4  | N/A   | 7025961 |
| Cation/EC Ratio                  | N/A       | 9.0  | 0.10  | 7025954 |
| Ion Balance                      | N/A       | 1.1  | 0.010 | 7025960 |
| Calculated Calcium (Ca)          | mg/kg     | 2.7  | 0.54  | 7025964 |
| Calculated Magnesium (Mg)        | mg/kg     | 0.76 | 0.36  | 7025964 |
| Calculated Sodium (Na)           | mg/kg     | 45   | 0.90  | 7025964 |
| Calculated Potassium (K)         | mg/kg     | 5.4  | 0.47  | 7025964 |
| Calculated Chloride (Cl)         | mg/kg     | 36   | 1.8   | 7025964 |
| Calculated Sulphate (SO4)        | mg/kg     | 55   | 1.8   | 7025964 |
| <b>Soluble Parameters</b>        |           |      |       |         |
| Soluble Chloride (Cl)            | mg/L      | 100  | 5.0   | 7028052 |
| Soluble Conductivity             | dS/m      | 0.72 | 0.020 | 7027970 |
| Soluble (CaCl2) pH               | N/A       | 6.94 | N/A   | 7027624 |
| Sodium Adsorption Ratio          | N/A       | 10   | 0.10  | 7025962 |
| Soluble Calcium (Ca)             | mg/L      | 7.5  | 1.5   | 7028146 |
| Soluble Magnesium (Mg)           | mg/L      | 2.1  | 1.0   | 7028146 |
| Soluble Sodium (Na)              | mg/L      | 130  | 2.5   | 7028146 |
| Soluble Potassium (K)            | mg/L      | 15   | 1.3   | 7028146 |
| Saturation %                     | %         | 36   | N/A   | 7027318 |
| Soluble Sulphate (SO4)           | mg/L      | 150  | 5.0   | 7028146 |
| Theoretical Gypsum Requirement   | tonnes/ha | 0.19 | 0.10  | 7025965 |
| RDL = Reportable Detection Limit |           |      |       |         |





Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |        |        |       |         |
|--|--------|--------|-------|---------|
| <b>Soluble Parameters</b>                                |        |        |       |         |
| Soluble (1:1) pH   | N/A    | 7.44   | N/A   | 7024529 |
| <b>Physical Properties</b>                               |        |        |       |         |
| Closed Cup Flash point                                   | deg. C | >61    | N/A   | 7026825 |
| Free Liquid  | N/A    | PASS   | N/A   | 7026879 |
| <b>Elements</b>  |        |        |       |         |
| Leachable Antimony (Sb)                                  | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Arsenic (As)                                   | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Barium (Ba)                                    | mg/L   | 2.2    | 1.0   | 7023787 |
| Leachable Beryllium (Be)                                 | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Boron (B)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Cadmium (Cd)                                   | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Chromium (Cr)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Cobalt (Co)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Copper (Cu)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Iron (Fe)                                      | mg/L   | 11     | 1.0   | 7023787 |
| Leachable Lead (Pb)                                      | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Mercury (Hg)                                   | mg/L   | <0.020 | 0.020 | 7023787 |
| Leachable Nickel (Ni)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Selenium (Se)                                  | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Silver (Ag)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Thallium (Tl)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Uranium (U)                                    | mg/L   | <0.20  | 0.20  | 7023787 |
| Leachable Vanadium (V)                                   | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zinc (Zn)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zirconium (Zr)                                 | mg/L   | <1.0   | 1.0   | 7023787 |
| <b>Volatiles</b>   |        |        |       |         |
| Leachable (ZH) Benzene                                   | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) Toluene                                   | ug/L   | 18     | 10    | 7024500 |
| Leachable (ZH) Ethylbenzene                              | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) o-Xylene                                  | ug/L   | 53     | 10    | 7024500 |
| Leachable (ZH) m & p-Xylene                              | ug/L   | 80     | 20    | 7024500 |
| Leachable (ZH) Xylenes (Total)                           | ug/L   | 130    | 20    | 7024500 |
| <b>Surrogate Recovery (%)</b>                            |        |        |       |         |
| Leachable (ZH) 1,4-Difluorobenzene (sur.)                | %      | 91     | N/A   | 7024500 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |        |        |       |         |



Maxxam Job #: B363840  
Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|   |   |    |     |         |
|---|---|----|-----|---------|
| Leachable (ZH) 4-BROMOFLUOROBENZENE (sur.)  | % | 98 | N/A | 7024500 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE (sur.) | % | 87 | N/A | 7024500 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |             |             |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.19  | 0.11  | 0.19  | 0.25  | <0.10 | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.6   | 6.4   | 6.5   | 5.0   | 4.5   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 2300  | 1700  | 1100  | 1900  | 580   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | 0.26  | <0.10 | <0.10 | <0.10 | <0.10 | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 6.8   | 5.3   | 6.8   | 5.3   | 4.6   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 2.7   | 3.0   | 2.7   | 2.2   | 1.9   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | 10    | 6.2   | 8.0   | 6.1   | <5.0  | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 61    | 18    | 18    | 18    | 9.1   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | 0.12  | 0.064 | 0.061 | 0.072 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.68  | 0.61  | 0.98  | 0.50  | <0.40 | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 7.0   | 7.1   | 6.9   | 5.2   | 4.9   | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 11    | 11    | 10    | 9.7   | 8.6   | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 77    | 29    | 23    | 29    | 17    | 10    | 7026100 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |              |              |                 |                 |                  |            |                 |
|---------------|--------------|--------------|--------------|-----------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       | GZ9442       | GZ9443          |                 | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   | 2013/07/23   | 2013/07/20      |                 | 2013/07/21       |            |                 |
| COC Number    |              | A134527      | A134527      | A134527         |                 | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>QC Batch</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |        |         |        |       |         |
|-------------------------------|-------|-------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.11  | 0.34  | 0.72   | 7026671 | 0.39   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15  | 7024524 | <0.15  | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | 1.2    | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 7.9   | 6.7   | 5.5    | 7026100 | 5.9    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 740   | 1100  | 420    | 7026100 | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40  | 7026100 | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.11  | 0.17  | 0.18   | 7026100 | 0.23   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 6.6   | 110   | 11     | 7026100 | 13     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9   | 3.3   | 3.8    | 7026100 | 3.9    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 6.8   | 7.9   | 11     | 7026100 | 14     | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 8.4   | 22    | 16     | 7026100 | 13     | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | 0.053 | 0.081 | <0.050 | 7026100 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.66  | 0.74  | 0.67   | 7026100 | 0.80   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 9.2   | 8.5   | 12     | 7026100 | 14     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50  | 7026100 | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30  | 7026100 | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | 1.3    | 7026100 | 2.0    | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 15    | 13    | 11     | 7026100 | 14     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 28    | 30    | 46     | 7026100 | 57     | 10    | 7024736 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                  |                  |                  |                  |                  |                          |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           | GZ9449           | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/22               |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          | A134528          | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>EX-13-IDB</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |        |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.50   | <0.10  | <0.10  | 0.20   | <0.10  | 0.90   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.1    | 4.9    | 4.4    | 5.6    | 5.2    | 8.1    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 1900   | 82     | 120    | 350    | 91     | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.22   | <0.10  | <0.10  | <0.10  | <0.10  | 0.12   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 6.3    | 6.6    | 25     | 7.0    | 11     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.4    | 4.0    | 3.8    | 3.5    | 3.8    | 4.2    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 25     | <5.0   | <5.0   | <5.0   | <5.0   | 6.5    | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 18     | 3.0    | 3.7    | 6.5    | 3.3    | 4.8    | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.63   | 0.47   | <0.40  | 0.81   | 0.46   | 0.62   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 10     | 11     | 10     | 17     | 10     | 12     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | 3.9    | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 14     | 12     | 13     | 13     | 13     | 20     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 60     | 27     | 30     | 26     | 27     | 34     | 10    | 7024736 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                          |                          |                          |                          |                                      |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9454                   | GZ9455                   | GZ9456                   | GZ9457                   | GZ9458                   | GZ9458                               |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                           |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  | A134528                  | A134528                  | A134528                              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(7M)</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(6M)</b> | <b>EX-13-CW<br/>(5M)</b> | <b>EX-13-DW<br/>(6M)</b> | <b>EX-13-DW<br/>(6M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |       |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.20   | 0.39   | 0.50   | 0.22   | 0.21   | N/A   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15 | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.6    | 6.0    | 5.6    | 5.8    | 5.2    | N/A   | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 97     | 210    | 100    | 100    | 86     | N/A   | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | N/A   | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.11   | <0.10  | <0.10  | <0.10  | N/A   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 10     | 12     | 8.2    | 9.4    | N/A   | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9    | 4.4    | 4.2    | 4.4    | 3.9    | N/A   | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | <5.0   | 5.8    | <5.0   | <5.0   | <5.0   | N/A   | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 3.5    | 4.5    | 3.4    | 3.6    | 3.2    | N/A   | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | N/A   | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.58   | 0.57   | 0.60   | 0.55   | 0.49   | N/A   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 12     | 13     | 14     | 13     | 12     | N/A   | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | N/A   | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | N/A   | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 13     | 17     | 14     | 15     | 13     | N/A   | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 29     | 25     | 29     | 33     | 27     | N/A   | 10    | 7024736 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                            |                          |                          |                          |                 |                            |            |                 |
|---------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|-----------------|----------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     | GZ9466                   | GZ9467                   | GZ9468                   |                 | GZ9469                     |            |                 |
| Sampling Date |              | 2013/07/22                 | 2013/07/22               | 2013/07/22               | 2013/07/22               |                 | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                    | A134528                  | A134528                  | A134528                  |                 | A134516                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>QC Batch</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |         |       |       |         |
|-------------------------------|-------|--------|--------|--------|--------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.22   | 0.18   | <0.10  | 2.6    | 7025702 | 0.84  | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | 7024522 | <0.15 | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.1    | 5.3    | 6.1    | 13     | 7024736 | 5.1   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 120    | 89     | 76     | 210    | 7024736 | 480   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | 7024736 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | 0.98   | 7024736 | 0.20  | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 12     | 9.4    | 9.4    | 9.3    | 7024736 | 6.8   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 4.1    | 3.9    | 3.6    | 6.8    | 7024736 | 3.7   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | <5.0   | <5.0   | <5.0   | 7.4    | 7024736 | 7.7   | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 3.6    | 3.1    | 3.0    | 4.6    | 7024736 | 9.6   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | 7024736 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.57   | 0.52   | 0.51   | 1.4    | 7024736 | 0.50  | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 14     | 12     | 12     | 18     | 7024736 | 11    | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | 7024736 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | 7024736 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | 1.2    | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 13     | 13     | 12     | 21     | 7024736 | 14    | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 28     | 26     | 25     | 40     | 7024736 | 28    | 10    | 7026100 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                 |                      |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ9471                   |                 | HA0382               |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/21           |            |                 |
| COC Number    |              | A134516                  |                 | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |         |        |       |         |
|-------------------------------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.56   | 7026671 | 0.49   | 0.10  | 7027660 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | 7024522 | <0.15  | 0.15  | 7024535 |
| Total Antimony (Sb)           | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Arsenic (As)            | mg/kg | 4.9    | 7026100 | 5.4    | 1.0   | 7027493 |
| Total Barium (Ba)             | mg/kg | 220    | 7026100 | 140    | 10    | 7027493 |
| Total Beryllium (Be)          | mg/kg | <0.40  | 7026100 | <0.40  | 0.40  | 7027493 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 7026100 | <0.10  | 0.10  | 7027493 |
| Total Chromium (Cr)           | mg/kg | 5.0    | 7026100 | 6.7    | 1.0   | 7027493 |
| Total Cobalt (Co)             | mg/kg | 2.8    | 7026100 | 3.7    | 1.0   | 7027493 |
| Total Copper (Cu)             | mg/kg | <5.0   | 7026100 | 5.4    | 5.0   | 7027493 |
| Total Lead (Pb)               | mg/kg | 6.0    | 7026100 | 4.8    | 1.0   | 7027493 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 7026100 | <0.050 | 0.050 | 7027493 |
| Total Molybdenum (Mo)         | mg/kg | 0.45   | 7026100 | 0.55   | 0.40  | 7027493 |
| Total Nickel (Ni)             | mg/kg | 7.0    | 7026100 | 11     | 1.0   | 7027493 |
| Total Selenium (Se)           | mg/kg | <0.50  | 7026100 | <0.50  | 0.50  | 7027493 |
| Total Silver (Ag)             | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Thallium (Tl)           | mg/kg | <0.30  | 7026100 | <0.30  | 0.30  | 7027493 |
| Total Tin (Sn)                | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Uranium (U)             | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Vanadium (V)            | mg/kg | 9.6    | 7026100 | 12     | 1.0   | 7027493 |
| Total Zinc (Zn)               | mg/kg | 29     | 7026100 | 29     | 10    | 7027493 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                          |            |                 |
|---------------|--------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>                              |       |         |        |         |
|--|-------|---------|--------|---------|
| Acenaphthene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency                               | mg/kg | <0.10   | 0.10   | 7021178 |
| Acenaphthylene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Acridine   | mg/kg | <0.010  | 0.010  | 7023968 |
| Anthracene   | mg/kg | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene                                       | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene                                   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene                                     | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Chrysene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene                                    | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluorene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene                                   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene                                      | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Naphthalene  | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Perylene   | mg/kg | 0.0065  | 0.0050 | 7023968 |
| Pyrene   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Quinoline  | mg/kg | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b>                            |       |         |        |         |
| D10-ANTHRACENE (sur.)                                    | %     | 98      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)                                | %     | 79      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)                                 | %     | 99      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)                                     | %     | 117     | N/A    | 7023968 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |        |         |



Maxxam Job #: B363840  
Report Date: 2013/07/28

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 6.3°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB363840

| QA/QC Batch        | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |          |
|--------------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|----------|
| 7015681 KO         | Matrix Spike                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            | 99       | %     | 50 - 130  |          |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            | 104      | %     | 50 - 130  |          |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            | 105      | %     | 50 - 130  |          |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            | 103      | %     | 50 - 130  |          |          |
|                    | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            |          | 96    | %         | 50 - 130 |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            |          | 104   | %         | 70 - 130 |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            |          | 105   | %         | 70 - 130 |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            |          | 102   | %         | 70 - 130 |          |
|                    | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            |          | 99    | %         | 50 - 130 |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            | <10      |       | mg/kg     |          |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            | <50      |       | mg/kg     |          |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            | <50      |       | mg/kg     |          |          |
|                    | RPD                          | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            | NC       |       | %         | 50       |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            | NC       |       | %         | 50       |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            | NC       |       | %         | 50       |          |
|                    |                              |                              |                             |            |          |       |           |          |          |
| 7020731 PS7        | Matrix Spike                 | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |            | 115      | %     | 60 - 140  |          |          |
|                    |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |          |
|                    |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 124      | %     | 60 - 130  |          |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |          |
|                    |                              | Benzene                      | 2013/07/25                  |            | 105      | %     | 60 - 140  |          |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | 107      | %     | 60 - 140  |          |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | 107      | %     | 60 - 140  |          |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  |            | 112      | %     | 60 - 140  |          |          |
|                    |                              | o-Xylene                     | 2013/07/25                  |            | 103      | %     | 60 - 140  |          |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  |            | 103      | %     | 60 - 140  |          |          |
|                    |                              | Spiked Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          |       | 98        | %        | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          |       | 97        | %        | 60 - 140 |
|                    | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            |          | 99    | %         | 60 - 130 |          |
|                    | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            |          | 92    | %         | 60 - 140 |          |
|                    | Benzene                      |                              | 2013/07/25                  |            |          | 86    | %         | 60 - 140 |          |
|                    | Toluene                      |                              | 2013/07/25                  |            |          | 86    | %         | 60 - 140 |          |
|                    | Ethylbenzene                 |                              | 2013/07/25                  |            |          | 87    | %         | 60 - 140 |          |
|                    | m & p-Xylene                 |                              | 2013/07/25                  |            |          | 88    | %         | 60 - 140 |          |
|                    | o-Xylene                     |                              | 2013/07/25                  |            |          | 89    | %         | 60 - 140 |          |
|                    | (C6-C10)                     |                              | 2013/07/25                  |            |          | 101   | %         | 60 - 140 |          |
|                    | Method Blank                 |                              | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          |       | 98        | %        | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          |       | 104       | %        | 60 - 140 |
|                    |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            |          | 110   | %         | 60 - 130 |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            |          | 86    | %         | 60 - 140 |          |
|                    |                              | Benzene                      | 2013/07/25                  |            | <0.0050  |       | mg/kg     |          |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | <0.010   |       | mg/kg     |          |          |
|                    |                              | Xylenes (Total)              | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  |            | <0.040   |       | mg/kg     |          |          |
|                    |                              | o-Xylene                     | 2013/07/25                  |            | <0.020   |       | mg/kg     |          |          |
|                    |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  |            | <12      |       | mg/kg     |          |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  |            | <12      |       | mg/kg     |          |          |
|                    | RPD                          | Benzene                      | 2013/07/25                  |            | NC       |       | %         | 50       |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | NC       |       | %         | 50       |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | NC       |       | %         | 50       |          |
|                    |                              | Xylenes (Total)              | 2013/07/25                  |            | NC       |       | %         | 50       |          |
| m & p-Xylene       |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |          |
| o-Xylene           |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |          |
| F1 (C6-C10) - BTEX |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |          |
| (C6-C10)           |                              | 2013/07/25                   |                             | NC         |          | %     | 50        |          |          |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)  
 Maxxam Job Number: EB363840

| QA/QC Batch               | QC Type                     | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|---------------------------|-----------------------------|---------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7021306 JR1               | Matrix Spike                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 101      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 114      | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 95       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 104      | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           | RPD                         | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                |                             | NC         | %        | 50    |           |          |
|                           |                             |                           |                             |            |          |       |           |          |
| 7022792 JR1               | Matrix Spike<br>[GZ9455-01] | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 89       | %     | 50 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 88       | %     | 50 - 130  |          |
|                           | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 92       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 105      | %     | 70 - 130  |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|                           | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 94       | %     | 50 - 130  |          |
|                           |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|                           | RPD [GZ9454-01]             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|                           |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
| F4 (C34-C50 Hydrocarbons) |                             | 2013/07/25                |                             | NC         | %        | 50    |           |          |
|                           |                             |                           |                             |            |          |       |           |          |
| 7023787 WAU               | Matrix Spike                | Leachable Antimony (Sb)   | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Arsenic (As)    | 2013/07/26                  |            | 103      | %     | 75 - 125  |          |
|                           |                             | Leachable Barium (Ba)     | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|                           |                             | Leachable Beryllium (Be)  | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|                           |                             | Leachable Boron (B)       | 2013/07/26                  |            | 105      | %     | 75 - 125  |          |
|                           |                             | Leachable Cadmium (Cd)    | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|                           |                             | Leachable Chromium (Cr)   | 2013/07/26                  |            | 102      | %     | 75 - 125  |          |
|                           |                             | Leachable Cobalt (Co)     | 2013/07/26                  |            | 99       | %     | 75 - 125  |          |
|                           |                             | Leachable Copper (Cu)     | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|                           |                             | Leachable Iron (Fe)       | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|                           |                             | Leachable Lead (Pb)       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|                           |                             | Leachable Mercury (Hg)    | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Nickel (Ni)     | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|                           |                             | Leachable Selenium (Se)   | 2013/07/26                  |            | 111      | %     | 75 - 125  |          |
|                           |                             | Leachable Silver (Ag)     | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|                           |                             | Leachable Thallium (Tl)   | 2013/07/26                  |            | 106      | %     | 75 - 125  |          |
|                           |                             | Leachable Uranium (U)     | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|                           |                             | Leachable Vanadium (V)    | 2013/07/26                  |            | 109      | %     | 75 - 125  |          |
|                           |                             | Leachable Zinc (Zn)       | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|                           |                             | Leachable Zirconium (Zr)  | 2013/07/26                  |            | 116      | %     | 75 - 125  |          |
|                           |                             | Spiked Blank              | Leachable Antimony (Sb)     | 2013/07/26 |          | 86    | %         | 80 - 120 |
|                           |                             |                           | Leachable Arsenic (As)      | 2013/07/26 |          | 97    | %         | 80 - 120 |
|                           |                             |                           | Leachable Barium (Ba)       | 2013/07/26 |          | 101   | %         | 80 - 120 |
|                           |                             |                           | Leachable Beryllium (Be)    | 2013/07/26 |          | 99    | %         | 80 - 120 |





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Maxxam Job Number: EB363840

| QA/QC Batch              | QC Type      | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value                    | Recovery   | UNITS | QC Limits |      |  |
|--------------------------|--------------|--------------------------|-----------------------------|--------------------------|------------|-------|-----------|------|--|
| 7023787 WAU              | Spiked Blank | Leachable Boron (B)      | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                          |              | Leachable Cadmium (Cd)   | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Chromium (Cr)  | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Cobalt (Co)    | 2013/07/26                  |                          | 97         | %     | 80 - 120  |      |  |
|                          |              | Leachable Copper (Cu)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Iron (Fe)      | 2013/07/26                  |                          | 105        | %     | 80 - 120  |      |  |
|                          |              | Leachable Lead (Pb)      | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                          |              | Leachable Mercury (Hg)   | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                          |              | Leachable Nickel (Ni)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Selenium (Se)  | 2013/07/26                  |                          | 104        | %     | 80 - 120  |      |  |
|                          |              | Leachable Silver (Ag)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Thallium (Tl)  | 2013/07/26                  |                          | 108        | %     | 80 - 120  |      |  |
|                          |              | Leachable Uranium (U)    | 2013/07/26                  |                          | 88         | %     | 80 - 120  |      |  |
|                          |              | Leachable Vanadium (V)   | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                          |              | Leachable Zinc (Zn)      | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Zirconium (Zr) | 2013/07/26                  |                          | 103        | %     | 80 - 120  |      |  |
|                          |              | Method Blank             | Method Blank                | Leachable Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/L |  |
|                          |              |                          |                             | Leachable Arsenic (As)   | 2013/07/26 | <0.50 |           | mg/L |  |
|                          |              |                          |                             | Leachable Barium (Ba)    | 2013/07/26 | <1.0  |           | mg/L |  |
|                          |              |                          |                             | Leachable Beryllium (Be) | 2013/07/26 | <0.50 |           | mg/L |  |
| Leachable Boron (B)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Cadmium (Cd)   | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Chromium (Cr)  | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Cobalt (Co)    | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Copper (Cu)    | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Iron (Fe)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Lead (Pb)      | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Mercury (Hg)   | 2013/07/26   |                          |                             | <0.020                   |            | mg/L  |           |      |  |
| Leachable Nickel (Ni)    | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Selenium (Se)  | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Silver (Ag)    | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Thallium (Tl)  | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Uranium (U)    | 2013/07/26   |                          |                             | <0.20                    |            | mg/L  |           |      |  |
| Leachable Vanadium (V)   | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Zinc (Zn)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Zirconium (Zr) | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| RPD                      | RPD          | Leachable Antimony (Sb)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Arsenic (As)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Barium (Ba)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Beryllium (Be) | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Boron (B)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Cadmium (Cd)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Chromium (Cr)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Cobalt (Co)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Copper (Cu)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Iron (Fe)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Lead (Pb)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Mercury (Hg)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Nickel (Ni)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Selenium (Se)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Silver (Ag)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Thallium (Tl)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Uranium (U)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Vanadium (V)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Zinc (Zn)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |



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| QA/QC Batch | QC Type      | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|--------------|---------------------------|-----------------------------|-------|----------|-------|-----------|
| 7023787 WAU | RPD          | Leachable Zirconium (Zr)  | 2013/07/26                  | NC    |          | %     | 35        |
| 7023968 YM1 | Matrix Spike | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 97       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 93       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 90       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 64       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 91       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 78       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 74       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 75       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 83       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 92       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             | Spiked Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 58       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 73       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 68       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 69       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 84       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 109      | %     | 50 - 130  |
|             | Method Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 108      | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |



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| QA/QC Batch | QC Type         | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value   | Recovery | UNITS | QC Limits |
|-------------|-----------------|--------------------------|-----------------------------|---------|----------|-------|-----------|
| 7023968 YM1 | Method Blank    | D8-ACENAPHTHYLENE (sur.) | 2013/07/26                  |         | 99       | %     | 50 - 130  |
|             |                 | TERPHENYL-D14 (sur.)     | 2013/07/26                  |         | 118      | %     | 50 - 130  |
|             |                 | Acenaphthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acenaphthylene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acridine                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                 | Anthracene               | 2013/07/26                  | <0.0040 |          | mg/kg |           |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Chrysene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluoranthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluorene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Naphthalene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Phenanthrene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Perylene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Pyrene                   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Quinoline                | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             | RPD             | Acenaphthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acenaphthylene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acridine                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Anthracene               | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Chrysene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluoranthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluorene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Naphthalene              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Phenanthrene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Perylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Pyrene                   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Quinoline                | 2013/07/26                  | NC      |          | %     | 50        |
| 7024030 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD [GZ9437-01] | Soluble (CaCl2) pH       | 2013/07/26                  | 1.0     |          | %     | 5         |
| 7024049 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 102      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH       | 2013/07/26                  | 0.1     |          | %     | 5         |
| 7024196 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 99       | %     | 93 - 107  |
|             | RPD [GZ9455-01] | Saturation %             | 2013/07/26                  | 1.2     |          | %     | 12        |
| 7024253 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 103      | %     | 93 - 107  |



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|-------------|-----------------------------|------------------------------|-----------------------------|---------|----------|-------|-----------|
| 7024253 LX  | RPD                         | Saturation %                 | 2013/07/26                  | 2.2     |          | %     | 12        |
| 7024356 NSE | Matrix Spike                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 102      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 101      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 101      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 99       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 92       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 90       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 86       | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 85       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 84       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 86       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             | Method Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 109      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 88       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Toluene                      | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | Ethylbenzene                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                             | Xylenes (Total)              | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | m & p-Xylene                 | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | o-Xylene                     | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | <12     |          | mg/kg |           |
|             |                             | (C6-C10)                     | 2013/07/26                  | <12     |          | mg/kg |           |
|             | RPD                         | Benzene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Toluene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Ethylbenzene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Xylenes (Total)              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | m & p-Xylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | o-Xylene                     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | (C6-C10)                     | 2013/07/26                  | NC      |          | %     | 50        |
| 7024383 CG7 | Matrix Spike<br>[GZ9453-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 110      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 89       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 98       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 94       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 91       | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 129      | %     | 60 - 130  |



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| QA/QC Batch                          | QC Type                                   | Parameter                                 | Date Analyzed<br>yyyy/mm/dd  | Value           | Recovery                                  | UNITS      | QC Limits |          |   |
|--------------------------------------|---|---|------------------------------|-----------------|---|------------|-----------|----------|---|
| 7024383 CG7                          | Spiked Blank                              | D4-1,2-DICHLOROETHANE (sur.)              | 2013/07/26                   |                 | 101                                       | %          | 60 - 140  |          |   |
|                                      |   | Benzene                                   | 2013/07/26                   |                 | 102                                       | %          | 60 - 140  |          |   |
|                                      |   | Toluene                                   | 2013/07/26                   |                 | 97  | %          | 60 - 140  |          |   |
|                                      |   | Ethylbenzene                              | 2013/07/26                   |                 | 96  | %          | 60 - 140  |          |   |
|                                      |   | m & p-Xylene                              | 2013/07/26                   |                 | 95  | %          | 60 - 140  |          |   |
|                                      |   | o-Xylene                                  | 2013/07/26                   |                 | 94  | %          | 60 - 140  |          |   |
|                                      |   | (C6-C10)                                  | 2013/07/26                   |                 | 92  | %          | 60 - 140  |          |   |
|                                      |   | Method Blank                              | 1,4-Difluorobenzene (sur.)   | 2013/07/26      |   | 100        | %         | 60 - 140 |   |
|                                      |   |   | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26      |   | 101        | %         | 60 - 140 |   |
|                                      |   |   | D10-ETHYLBENZENE (sur.)      | 2013/07/26      |   | 122        | %         | 60 - 130 |   |
|                                      |   |   | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26      |   | 105        | %         | 60 - 140 |   |
|                                      |   |   | Benzene                      | 2013/07/26      | <0.0050                                   |            | mg/kg     |          |   |
|                                      |   |   | Toluene                      | 2013/07/26      | <0.020                                    |            | mg/kg     |          |   |
|                                      |   | RPD [GZ9449-01]                           | Method Blank                 | Ethylbenzene    | 2013/07/26                                | <0.010     |           | mg/kg    |   |
|                                      |   |   |                              | Xylenes (Total) | 2013/07/26                                | <0.040     |           | mg/kg    |   |
|                                      | m & p-Xylene                              |   |                              | 2013/07/26      | <0.040                                    |            | mg/kg     |          |   |
|                                      | o-Xylene                                  |   |                              | 2013/07/26      | <0.020                                    |            | mg/kg     |          |   |
|                                      | F1 (C6-C10) - BTEX                        |   |                              | 2013/07/26      | <12                                       |            | mg/kg     |          |   |
|                                      | (C6-C10)                                  |   |                              | 2013/07/26      | <12                                       |            | mg/kg     |          |   |
|                                      | RPD [GZ9449-01]                           |   | Benzene                      | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Toluene                      | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Ethylbenzene                 | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | Xylenes (Total)              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | m & p-Xylene                 | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | o-Xylene                     | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | F1 (C6-C10) - BTEX           | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | (C6-C10)                     | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   |   | 7024500 NSE                  | Matrix Spike    | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |           | 95       | % |
|                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26                                |                              |                 |   | 99         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26                                |                              |                 |   | 102        | %         | 70 - 130 |   |
| Leachable (ZH) Benzene               | 2013/07/26                                |   |                              |                 | 84  | %          | 70 - 130  |          |   |
| Leachable (ZH) Toluene               | 2013/07/26                                |   |                              |                 | 83  | %          | 70 - 130  |          |   |
| Leachable (ZH) Ethylbenzene          | 2013/07/26                                |   |                              |                 | 81  | %          | 70 - 130  |          |   |
| Leachable (ZH) o-Xylene              | 2013/07/26                                |   |                              |                 | 93  | %          | 70 - 130  |          |   |
| Leachable (ZH) m & p-Xylene          | 2013/07/26                                |   |                              |                 | 91  | %          | 70 - 130  |          |   |
| Spiked Blank                         | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26                                |                              |                 |   | 90         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26                                |                              |                 |   | 100        | %         | 70 - 130 |   |
|                                      | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26                                |                              |                 |   | 95         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Benzene                    | 2013/07/26                                |                              |                 |   | 77         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Toluene                    | 2013/07/26                                |                              |                 |   | 82         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) Ethylbenzene               | 2013/07/26                                |                              |                 |   | 83         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) o-Xylene                   | 2013/07/26                                |                              |                 |   | 91         | %         | 70 - 130 |   |
|                                      | Leachable (ZH) m & p-Xylene               | 2013/07/26                                |                              |                 | 87  | %          | 70 - 130  |          |   |
|                                      | Method Blank                              | Leachable (ZH) 1,4-Difluorobenzene (sur.) |                              | 2013/07/26      |   | 99         | %         | 70 - 130 |   |
| Leachable (ZH) 4-BROMOFLUOROBENZENE  |   | 2013/07/26                                |                              |                 | 101                                       | %          | 70 - 130  |          |   |
| Leachable (ZH) D4-1,2-DICHLOROETHANE |   | 2013/07/26                                |                              |                 | 98  | %          | 70 - 130  |          |   |
| Leachable (ZH) Benzene               |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) Toluene               |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) Ethylbenzene          |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) o-Xylene              |   | 2013/07/26                                |                              | <10             |   | ug/L       |           |          |   |
| Leachable (ZH) m & p-Xylene          |   | 2013/07/26                                |                              | <20             |   | ug/L       |           |          |   |
| Leachable (ZH) Xylenes (Total)       |   | 2013/07/26                                |                              | <20             |   | ug/L       |           |          |   |
| RPD                                  |   | Leachable (ZH) Benzene                    |                              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   | Leachable (ZH) Toluene                    |                              | 2013/07/26      | NC  |            | %         | 50       |   |
|                                      |   | Leachable (ZH) Ethylbenzene               |                              | 2013/07/26      | NC  |            | %         | 50       |   |



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| QA/QC Batch | QC Type         | Parameter                      | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|--------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7024500 NSE | RPD             | Leachable (ZH) o-Xylene        | 2013/07/26                  | NC     |          | %     | 50        |
|             |                 | Leachable (ZH) m & p-Xylene    | 2013/07/26                  | NC     |          | %     | 50        |
|             |                 | Leachable (ZH) Xylenes (Total) | 2013/07/26                  | NC     |          | %     | 50        |
| 7024503 SSF | QC Standard     | Soluble Conductivity           | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             | Spiked Blank    | Soluble Conductivity           | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity           | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD [GZ9455-01] | Soluble Conductivity           | 2013/07/26                  | 1.3    |          | %     | 35        |
| 7024522 KD5 | Matrix Spike    |                                |                             |        |          |       |           |
|             | [GZ9458-01]     | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 82       | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD [GZ9458-01] | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024524 KD5 | Matrix Spike    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 86       | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD             | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024529 SSF | QC Standard     | Soluble (1:1) pH               | 2013/07/26                  |        | 100      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (1:1) pH               | 2013/07/26                  |        | 100      | %     | 99 - 101  |
|             | RPD             | Soluble (1:1) pH               | 2013/07/26                  | 2.2    |          | %     | 5         |
| 7024535 KD5 | Matrix Spike    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 0.0 (1)  | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 100      | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD             | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024736 SF3 | Matrix Spike    | Total Antimony (Sb)            | 2013/07/26                  |        | 90       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)              | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)           | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)              | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)              | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)                | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Magnesium (Mg)           | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)          | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)              | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Silver (Ag)              | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)            | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Tin (Sn)                 | 2013/07/26                  |        | 101      | %     | 75 - 125  |
|             |                 | Total Uranium (U)              | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                 | Total Vanadium (V)             | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Zinc (Zn)                | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             | QC Standard     | Total Arsenic (As)             | 2013/07/26                  |        | 128      | %     | 50 - 150  |
|             |                 | Total Barium (Ba)              | 2013/07/26                  |        | 115      | %     | 69 - 131  |
|             |                 | Total Chromium (Cr)            | 2013/07/26                  |        | 108      | %     | 41 - 159  |
|             |                 | Total Cobalt (Co)              | 2013/07/26                  |        | 108      | %     | 75 - 125  |
|             |                 | Total Copper (Cu)              | 2013/07/26                  |        | 111      | %     | 73 - 127  |
|             |                 | Total Lead (Pb)                | 2013/07/26                  |        | 104      | %     | 54 - 146  |
|             |                 | Total Magnesium (Mg)           | 2013/07/26                  |        | 85       | %     | 69 - 131  |
|             |                 | Total Nickel (Ni)              | 2013/07/26                  |        | 116      | %     | 61 - 139  |
|             |                 | Total Vanadium (V)             | 2013/07/26                  |        | 125      | %     | 50 - 150  |
|             |                 | Total Zinc (Zn)                | 2013/07/26                  |        | 117      | %     | 72 - 128  |
|             | Spiked Blank    | Total Antimony (Sb)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |





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| QA/QC Batch           | QC Type      | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value                | Recovery   | UNITS | QC Limits |       |    |
|-----------------------|--------------|-----------------------|-----------------------------|----------------------|------------|-------|-----------|-------|----|
| 7024736 SF3           | Spiked Blank | Total Barium (Ba)     | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Beryllium (Be)  | 2013/07/26                  |                      | 100        | %     | 75 - 125  |       |    |
|                       |              | Total Cadmium (Cd)    | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |    |
|                       |              | Total Chromium (Cr)   | 2013/07/26                  |                      | 93         | %     | 75 - 125  |       |    |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |    |
|                       |              | Total Copper (Cu)     | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Lead (Pb)       | 2013/07/26                  |                      | 97         | %     | 75 - 125  |       |    |
|                       |              | Total Magnesium (Mg)  | 2013/07/26                  |                      | 89         | %     | 75 - 125  |       |    |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |    |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Selenium (Se)   | 2013/07/26                  |                      | 98         | %     | 75 - 125  |       |    |
|                       |              | Total Silver (Ag)     | 2013/07/26                  |                      | 97         | %     | 75 - 125  |       |    |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Tin (Sn)        | 2013/07/26                  |                      | 97         | %     | 75 - 125  |       |    |
|                       |              | Total Uranium (U)     | 2013/07/26                  |                      | 102        | %     | 75 - 125  |       |    |
|                       |              | Total Vanadium (V)    | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |    |
|                       |              | Total Zinc (Zn)       | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |    |
|                       |              | Method Blank          | Method Blank                | Total Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/kg |    |
|                       |              |                       |                             | Total Arsenic (As)   | 2013/07/26 | <1.0  |           | mg/kg |    |
|                       |              |                       |                             | Total Barium (Ba)    | 2013/07/26 | <1.0  |           | mg/kg |    |
|                       |              |                       |                             | Total Beryllium (Be) | 2013/07/26 | <0.40 |           | mg/kg |    |
|                       |              |                       |                             | Total Cadmium (Cd)   | 2013/07/26 | <0.10 |           | mg/kg |    |
| Total Chromium (Cr)   | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Cobalt (Co)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Copper (Cu)     | 2013/07/26   |                       |                             | <5.0                 |            | mg/kg |           |       |    |
| Total Lead (Pb)       | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Magnesium (Mg)  | 2013/07/26   |                       |                             | <100                 |            | mg/kg |           |       |    |
| Total Mercury (Hg)    | 2013/07/26   |                       |                             | <0.050               |            | mg/kg |           |       |    |
| Total Molybdenum (Mo) | 2013/07/26   |                       |                             | <0.40                |            | mg/kg |           |       |    |
| Total Nickel (Ni)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Selenium (Se)   | 2013/07/26   |                       |                             | <0.50                |            | mg/kg |           |       |    |
| Total Silver (Ag)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Thallium (Tl)   | 2013/07/26   |                       |                             | <0.30                |            | mg/kg |           |       |    |
| Total Tin (Sn)        | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Uranium (U)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Vanadium (V)    | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |    |
| Total Zinc (Zn)       | 2013/07/26   |                       |                             | <10                  |            | mg/kg |           |       |    |
| RPD                   | RPD          |                       |                             | Total Antimony (Sb)  | 2013/07/26 | NC    |           | %     | 35 |
|                       |              |                       |                             | Total Arsenic (As)   | 2013/07/26 | NC    |           | %     | 35 |
|                       |              |                       |                             | Total Barium (Ba)    | 2013/07/26 | 6.1   |           | %     | 35 |
|                       |              | Total Beryllium (Be)  | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Cadmium (Cd)    | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Chromium (Cr)   | 2013/07/26                  | 7.2                  |            | %     | 35        |       |    |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  | 6.1                  |            | %     | 35        |       |    |
|                       |              | Total Copper (Cu)     | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Lead (Pb)       | 2013/07/26                  | 5.6                  |            | %     | 35        |       |    |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  | 6.4                  |            | %     | 35        |       |    |
|                       |              | Total Selenium (Se)   | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Silver (Ag)     | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Tin (Sn)        | 2013/07/26                  | NC                   |            | %     | 35        |       |    |
|                       |              | Total Uranium (U)     | 2013/07/26                  | NC                   |            | %     | 35        |       |    |



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| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7024736 SF3 | RPD             | Total Vanadium (V)            | 2013/07/26                  | 7.9    |          | %     | 35        |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  | NC     |          | %     | 35        |
| 7024996 ABH | Method Blank    | Moisture                      | 2013/07/26                  | <0.30  |          | %     |           |
|             | RPD [GZ9437-01] | Moisture                      | 2013/07/26                  | 5.6    |          | %     | 20        |
| 7025245 SSF | QC Standard     | Soluble Conductivity          | 2013/07/26                  |        | 97       | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity          | 2013/07/26                  |        | 100      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity          | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity          | 2013/07/26                  | 7.8    |          | %     | 35        |
| 7025403 ABH | Method Blank    | Moisture                      | 2013/07/26                  | <0.30  |          | %     |           |
|             | RPD [GZ9457-01] | Moisture                      | 2013/07/26                  | 10.7   |          | %     | 20        |
| 7025702 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |        | 102      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |        | 102      | %     | 75 - 125  |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10  |          | mg/kg |           |
|             | RPD             | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC     |          | %     | 35        |
| 7026083 KD5 | Matrix Spike    |                               |                             |        |          |       |           |
|             | [GZ9455-01]     | Soluble Chloride (Cl)         | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             | QC Standard     | Soluble Chloride (Cl)         | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             | Spiked Blank    | Soluble Chloride (Cl)         | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             | Method Blank    | Soluble Chloride (Cl)         | 2013/07/26                  | <5.0   |          | mg/L  |           |
|             | RPD [GZ9455-01] | Soluble Chloride (Cl)         | 2013/07/26                  | NC     |          | %     | 35        |
| 7026100 WAU | Matrix Spike    | Total Antimony (Sb)           | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Magnesium (Mg)          | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)           | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Silver (Ag)             | 2013/07/26                  |        | 101      | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Tin (Sn)                | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             |                 | Total Uranium (U)             | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             | QC Standard     | Total Arsenic (As)            | 2013/07/26                  |        | 131      | %     | 50 - 150  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | 116      | %     | 69 - 131  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |        | 108      | %     | 41 - 159  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |        | 114      | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |        | 116      | %     | 73 - 127  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |        | 110      | %     | 54 - 146  |
|             |                 | Total Magnesium (Mg)          | 2013/07/26                  |        | 109      | %     | 69 - 131  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |        | 122      | %     | 61 - 139  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |        | 126      | %     | 50 - 150  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |        | 124      | %     | 72 - 128  |
|             | Spiked Blank    | Total Antimony (Sb)           | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |



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| QA/QC Batch           | QC Type      | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value                | Recovery   | UNITS | QC Limits |       |  |
|-----------------------|--------------|-----------------------|-----------------------------|----------------------|------------|-------|-----------|-------|--|
| 7026100 WAU           | Spiked Blank | Total Chromium (Cr)   | 2013/07/26                  |                      | 92         | %     | 75 - 125  |       |  |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  |                      | 93         | %     | 75 - 125  |       |  |
|                       |              | Total Copper (Cu)     | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Lead (Pb)       | 2013/07/26                  |                      | 96         | %     | 75 - 125  |       |  |
|                       |              | Total Magnesium (Mg)  | 2013/07/26                  |                      | 90         | %     | 75 - 125  |       |  |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  |                      | 93         | %     | 75 - 125  |       |  |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Selenium (Se)   | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |  |
|                       |              | Total Silver (Ag)     | 2013/07/26                  |                      | 96         | %     | 75 - 125  |       |  |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Tin (Sn)        | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |  |
|                       |              | Total Uranium (U)     | 2013/07/26                  |                      | 98         | %     | 75 - 125  |       |  |
|                       |              | Total Vanadium (V)    | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Zinc (Zn)       | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Method Blank          | Method Blank                | Total Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/kg |  |
|                       |              |                       |                             | Total Arsenic (As)   | 2013/07/26 | <1.0  |           | mg/kg |  |
|                       |              |                       |                             | Total Barium (Ba)    | 2013/07/26 | <10   |           | mg/kg |  |
|                       |              |                       |                             | Total Beryllium (Be) | 2013/07/26 | <0.40 |           | mg/kg |  |
|                       |              |                       |                             | Total Cadmium (Cd)   | 2013/07/26 | <0.10 |           | mg/kg |  |
| Total Chromium (Cr)   | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Cobalt (Co)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Copper (Cu)     | 2013/07/26   |                       |                             | <5.0                 |            | mg/kg |           |       |  |
| Total Lead (Pb)       | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Magnesium (Mg)  | 2013/07/26   |                       |                             | <100                 |            | mg/kg |           |       |  |
| Total Mercury (Hg)    | 2013/07/26   |                       |                             | <0.050               |            | mg/kg |           |       |  |
| Total Molybdenum (Mo) | 2013/07/26   |                       |                             | <0.40                |            | mg/kg |           |       |  |
| Total Nickel (Ni)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Selenium (Se)   | 2013/07/26   |                       |                             | <0.50                |            | mg/kg |           |       |  |
| Total Silver (Ag)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Thallium (Tl)   | 2013/07/26   |                       |                             | <0.30                |            | mg/kg |           |       |  |
| Total Tin (Sn)        | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Uranium (U)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Vanadium (V)    | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| RPD                   | RPD          |                       |                             | Total Zinc (Zn)      | 2013/07/26 | <10   |           | mg/kg |  |
|                       |              | Total Antimony (Sb)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Arsenic (As)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Barium (Ba)     | 2013/07/26                  | 4.4                  |            | %     | 35        |       |  |
|                       |              | Total Beryllium (Be)  | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Cadmium (Cd)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Chromium (Cr)   | 2013/07/26                  | 15.6                 |            | %     | 35        |       |  |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  | 1.8                  |            | %     | 35        |       |  |
|                       |              | Total Copper (Cu)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Lead (Pb)       | 2013/07/26                  | 3.2                  |            | %     | 35        |       |  |
|                       |              | Total Magnesium (Mg)  | 2013/07/26                  | 1.2                  |            | %     | 35        |       |  |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  | 8.6                  |            | %     | 35        |       |  |
|                       |              | Total Selenium (Se)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Silver (Ag)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Tin (Sn)        | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Uranium (U)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Vanadium (V)    | 2013/07/26                  | 2.7                  |            | %     | 35        |       |  |
| Total Zinc (Zn)       | 2013/07/26   | NC                    |                             | %                    | 35         |       |           |       |  |



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| QA/QC Batch Num Init   | QC Type                  | Parameter                     | Date Analyzed yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |    |
|------------------------|--------------------------|-------------------------------|--------------------------|-------|----------|-------|-----------|----|
| 7026327 JSM            | Matrix Spike [GZ9455-01] | Soluble Calcium (Ca)          | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 109      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26               |       | 87       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 85       | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 107      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Sulphate (SO4)        | 2013/07/26               |       | 91       | %     | 78 - 122  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | 102      | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 103      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Potassium (K)         | 2013/07/26               |       | 99       | %     | 75 - 125  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | <1.5     |       | mg/L      |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | <1.0     |       | mg/L      |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | <2.5     |       | mg/L      |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | <1.3     |       | mg/L      |    |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD [GZ9455-01]          | Soluble Calcium (Ca)          | 2013/07/26               |       | 13.2     |       | %         | 35 |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | NC       |       | %         | 35 |
| Soluble Sodium (Na)    |                          | 2013/07/26                    |                          | 3.5   |          | %     | 35        |    |
| Soluble Potassium (K)  |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |
| Soluble Sulphate (SO4) |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |
|                        |                          |                               |                          |       |          |       |           |    |
| 7026562 KD5            | Matrix Spike             | Soluble Chloride (Cl)         | 2013/07/26               |       | 102      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Chloride (Cl)         | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Chloride (Cl)         | 2013/07/26               |       | 100      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Chloride (Cl)         | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD                      | Soluble Chloride (Cl)         | 2013/07/26               |       | NC       |       | %         | 35 |
| 7026671 NC3            | Matrix Spike             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | 103      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | <0.10    |       | mg/kg     |    |
|                        | RPD                      | Soluble (Hot water) Boron (B) | 2013/07/26               |       | NC       |       | %         | 35 |
| 7026924 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26               |       | 97       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 106      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26               |       | 95       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 108      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 115      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Sulphate (SO4)        | 2013/07/26               |       | 98       | %     | 78 - 122  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 106      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Potassium (K)         | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | <1.5     |       | mg/L      |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | <1.0     |       | mg/L      |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | <2.5     |       | mg/L      |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | <1.3     |       | mg/L      |    |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD                      | Soluble Calcium (Ca)          | 2013/07/26               |       | 13.5     |       | %         | 35 |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | NC       |       | %         | 35 |
| Soluble Sodium (Na)    |                          | 2013/07/26                    |                          | 0.06  |          | %     | 35        |    |
| Soluble Potassium (K)  |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |



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| QA/QC Batch | QC Type      | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------|------------------------|-----------------------------|--------|----------|-------|-----------|
| 7026924 JSM | RPD          | Soluble Sulphate (SO4) | 2013/07/26                  | 3.0    |          | %     | 35        |
| 7027318 LX  | QC Standard  | Saturation %           | 2013/07/27                  |        | 105      | %     | 93 - 107  |
|             | RPD          | Saturation %           | 2013/07/27                  | 1.2    |          | %     | 12        |
| 7027431 AD3 | QC Standard  | Soluble Conductivity   | 2013/07/27                  |        | 98       | %     | 85 - 115  |
|             | Spiked Blank | Soluble Conductivity   | 2013/07/27                  |        | 100      | %     | 90 - 110  |
|             | Method Blank | Soluble Conductivity   | 2013/07/27                  | <0.020 |          | dS/m  |           |
|             | RPD          | Soluble Conductivity   | 2013/07/27                  | 4.2    |          | %     | 35        |
| 7027480 NM5 | Method Blank | Moisture               | 2013/07/27                  | <0.30  |          | %     |           |
|             | RPD          | Moisture               | 2013/07/27                  | 2.2    |          | %     | 20        |
| 7027493 WAU | Matrix Spike | Total Antimony (Sb)    | 2013/07/27                  |        | 85       | %     | 75 - 125  |
|             |              | Total Arsenic (As)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             |              | Total Beryllium (Be)   | 2013/07/27                  |        | 97       | %     | 75 - 125  |
|             |              | Total Cadmium (Cd)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 89       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 90       | %     | 75 - 125  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 87       | %     | 75 - 125  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             |              | Total Mercury (Hg)     | 2013/07/27                  |        | 89       | %     | 75 - 125  |
|             |              | Total Molybdenum (Mo)  | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Selenium (Se)    | 2013/07/27                  |        | 88       | %     | 75 - 125  |
|             |              | Total Silver (Ag)      | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Thallium (Tl)    | 2013/07/27                  |        | 84       | %     | 75 - 125  |
|             |              | Total Tin (Sn)         | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Uranium (U)      | 2013/07/27                  |        | 83       | %     | 75 - 125  |
|             |              | Total Vanadium (V)     | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Zinc (Zn)        | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             | QC Standard  | Total Arsenic (As)     | 2013/07/27                  |        | 112      | %     | 50 - 150  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | 96       | %     | 69 - 131  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 90       | %     | 41 - 159  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 96       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 100      | %     | 73 - 127  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 96       | %     | 54 - 146  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | 83       | %     | 69 - 131  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 104      | %     | 61 - 139  |
|             |              | Total Vanadium (V)     | 2013/07/27                  |        | 104      | %     | 50 - 150  |
|             |              | Total Zinc (Zn)        | 2013/07/27                  |        | 103      | %     | 72 - 128  |
|             | Spiked Blank | Total Antimony (Sb)    | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Arsenic (As)     | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Beryllium (Be)   | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Cadmium (Cd)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | 86       | %     | 75 - 125  |
|             |              | Total Mercury (Hg)     | 2013/07/27                  |        | 87       | %     | 75 - 125  |
|             |              | Total Molybdenum (Mo)  | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Selenium (Se)    | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Silver (Ag)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Thallium (Tl)    | 2013/07/27                  |        | 86       | %     | 75 - 125  |





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch | QC Type      | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------|-------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7027493 WAU | Spiked Blank | Total Tin (Sn)                | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Uranium (U)             | 2013/07/27                  |        | 86       | %     | 75 - 125  |
|             |              | Total Vanadium (V)            | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Zinc (Zn)               | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             | Method Blank | Total Antimony (Sb)           | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Arsenic (As)            | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Barium (Ba)             | 2013/07/27                  | <10    |          | mg/kg |           |
|             |              | Total Beryllium (Be)          | 2013/07/27                  | <0.40  |          | mg/kg |           |
|             |              | Total Cadmium (Cd)            | 2013/07/27                  | <0.10  |          | mg/kg |           |
|             |              | Total Chromium (Cr)           | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Cobalt (Co)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Copper (Cu)             | 2013/07/27                  | <5.0   |          | mg/kg |           |
|             |              | Total Lead (Pb)               | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Magnesium (Mg)          | 2013/07/27                  | <100   |          | mg/kg |           |
|             |              | Total Mercury (Hg)            | 2013/07/27                  | <0.050 |          | mg/kg |           |
|             |              | Total Molybdenum (Mo)         | 2013/07/27                  | <0.40  |          | mg/kg |           |
|             |              | Total Nickel (Ni)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Selenium (Se)           | 2013/07/27                  | <0.50  |          | mg/kg |           |
|             |              | Total Silver (Ag)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Thallium (Tl)           | 2013/07/27                  | <0.30  |          | mg/kg |           |
|             |              | Total Tin (Sn)                | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Uranium (U)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Vanadium (V)            | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Zinc (Zn)               | 2013/07/27                  | <10    |          | mg/kg |           |
|             | RPD          | Total Antimony (Sb)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Arsenic (As)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Barium (Ba)             | 2013/07/27                  | 7.3    |          | %     | 35        |
|             |              | Total Beryllium (Be)          | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Cadmium (Cd)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Chromium (Cr)           | 2013/07/27                  | 0.6    |          | %     | 35        |
|             |              | Total Cobalt (Co)             | 2013/07/27                  | 11.3   |          | %     | 35        |
|             |              | Total Copper (Cu)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Lead (Pb)               | 2013/07/27                  | 4.1    |          | %     | 35        |
|             |              | Total Mercury (Hg)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Molybdenum (Mo)         | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Nickel (Ni)             | 2013/07/27                  | 2.4    |          | %     | 35        |
|             |              | Total Selenium (Se)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Silver (Ag)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Thallium (Tl)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Tin (Sn)                | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Uranium (U)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Vanadium (V)            | 2013/07/27                  | 0.7    |          | %     | 35        |
|             |              | Total Zinc (Zn)               | 2013/07/27                  | NC     |          | %     | 35        |
| 7027624 AD3 | QC Standard  | Soluble (CaCl2) pH            | 2013/07/27                  |        | 101      | %     | 97 - 103  |
|             | Spiked Blank | Soluble (CaCl2) pH            | 2013/07/27                  |        | 100      | %     | 97 - 103  |
|             | RPD          | Soluble (CaCl2) pH            | 2013/07/27                  | 0.1    |          | %     | 5         |
| 7027660 JSM | Matrix Spike | Soluble (Hot water) Boron (B) | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             | Spiked Blank | Soluble (Hot water) Boron (B) | 2013/07/27                  |        | 96       | %     | 75 - 125  |
|             | Method Blank | Soluble (Hot water) Boron (B) | 2013/07/27                  | <0.10  |          | mg/kg |           |
|             | RPD          | Soluble (Hot water) Boron (B) | 2013/07/27                  | 0.4    |          | %     | 35        |
| 7027842 JSM | Matrix Spike | Soluble Sodium (Na)           | 2013/07/27                  |        | 109      | %     | 75 - 125  |
|             | QC Standard  | Soluble Sodium (Na)           | 2013/07/27                  |        | 110      | %     | 75 - 125  |
|             | Spiked Blank | Soluble Sodium (Na)           | 2013/07/27                  |        | 110      | %     | 75 - 125  |
|             | Method Blank | Soluble Sodium (Na)           | 2013/07/27                  | <2.5   |          | mg/L  |           |
|             | RPD          | Soluble Sodium (Na)           | 2013/07/27                  | 0.8    |          | %     | 35        |





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch            | QC Type      | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|------------------------|--------------|------------------------|-----------------------------|--------|----------|-------|-----------|
| 7027970 MA4            | QC Standard  | Soluble Conductivity   | 2013/07/28                  |        | 87       | %     | 85 - 115  |
|                        | Spiked Blank | Soluble Conductivity   | 2013/07/28                  |        | 101      | %     | 90 - 110  |
|                        | Method Blank | Soluble Conductivity   | 2013/07/28                  | <0.020 |          | dS/m  |           |
|                        | RPD          | Soluble Conductivity   | 2013/07/28                  | 2.7    |          | %     | 35        |
| 7028052 LCA            | Matrix Spike | Soluble Chloride (Cl)  | 2013/07/28                  |        | 99       | %     | 75 - 125  |
|                        | QC Standard  | Soluble Chloride (Cl)  | 2013/07/28                  |        | 90       | %     | 75 - 125  |
|                        | Spiked Blank | Soluble Chloride (Cl)  | 2013/07/28                  |        | 101      | %     | 75 - 125  |
|                        | Method Blank | Soluble Chloride (Cl)  | 2013/07/28                  | <5.0   |          | mg/L  |           |
|                        | RPD          | Soluble Chloride (Cl)  | 2013/07/28                  | NC     |          | %     | 35        |
| 7028146 JHC            | Matrix Spike | Soluble Calcium (Ca)   | 2013/07/28                  |        | 100      | %     | 75 - 125  |
|                        |              | Soluble Magnesium (Mg) | 2013/07/28                  |        | 103      | %     | 75 - 125  |
|                        |              | Soluble Sodium (Na)    | 2013/07/28                  |        | 103      | %     | 75 - 125  |
|                        |              | Soluble Potassium (K)  | 2013/07/28                  |        | 103      | %     | 75 - 125  |
|                        | QC Standard  | Soluble Calcium (Ca)   | 2013/07/28                  |        | 80       | %     | 75 - 125  |
|                        |              | Soluble Magnesium (Mg) | 2013/07/28                  |        | 81       | %     | 75 - 125  |
|                        |              | Soluble Sodium (Na)    | 2013/07/28                  |        | 96       | %     | 75 - 125  |
|                        |              | Soluble Potassium (K)  | 2013/07/28                  |        | 109      | %     | 75 - 125  |
|                        | Spiked Blank | Soluble Sulphate (SO4) | 2013/07/28                  |        | 80       | %     | 78 - 122  |
|                        |              | Soluble Calcium (Ca)   | 2013/07/28                  |        | 99       | %     | 75 - 125  |
|                        |              | Soluble Magnesium (Mg) | 2013/07/28                  |        | 101      | %     | 75 - 125  |
|                        |              | Soluble Sodium (Na)    | 2013/07/28                  |        | 100      | %     | 75 - 125  |
|                        | Method Blank | Soluble Potassium (K)  | 2013/07/28                  |        | 101      | %     | 75 - 125  |
|                        |              | Soluble Calcium (Ca)   | 2013/07/28                  | <1.5   |          | mg/L  |           |
|                        |              | Soluble Magnesium (Mg) | 2013/07/28                  | <1.0   |          | mg/L  |           |
|                        |              | Soluble Sodium (Na)    | 2013/07/28                  | <2.5   |          | mg/L  |           |
|                        | RPD          | Soluble Potassium (K)  | 2013/07/28                  | <1.3   |          | mg/L  |           |
|                        |              | Soluble Sulphate (SO4) | 2013/07/28                  | <5.0   |          | mg/L  |           |
|                        |              | Soluble Calcium (Ca)   | 2013/07/28                  | 21.3   |          | %     | 35        |
|                        |              | Soluble Magnesium (Mg) | 2013/07/28                  | NC     |          | %     | 35        |
| Soluble Sodium (Na)    |              | 2013/07/28             | 12.9                        |        | %        | 35    |           |
| Soluble Potassium (K)  |              | 2013/07/28             | NC                          |        | %        | 35    |           |
| Soluble Sulphate (SO4) |              | 2013/07/28             | 15.3                        |        | %        | 35    |           |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.  
 ( 1 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Validation Signature Page

Maxxam Job #: B363840

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



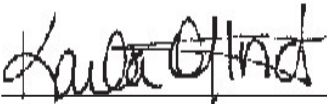
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Stephanie Gilbert, Senior Analyst



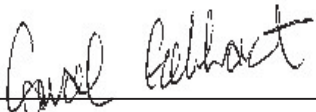
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Daniel Reslan, Volatiles Supervisor



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Karla Offord, Supervisor, Extractable Hydrocarbons



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst

## Validation Signature Page

**Maxxam Job #: B363840**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to be "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.









Company: Invoice To: C/O Report Address   
 Contact: Same as page 1  
 Address:  
 Prov: PC:  
 Contact #s: Ph: Cell:

Report To: Same as Invoice   
 Prov: PC:  
 Ph: Cell:

Report Distribution (E-Mail):  
 nwills@klohn.com

REGULATORY GUIDELINES:  
 AT1  
 CCME  
 Regulated Drinking Water  
 Other:

All samples are held for 60 calendar days after sample receipt, unless specified otherwise.  
 PO #:  
 Project # / Name:  
 Site Location:  
 Quote #:  
 Sampled By:

SERVICE REQUESTED:  RUSH (Contact lab to reserve)  
 Date Required: \_\_\_\_\_  
 REGULAR (5 to 7 Days)

| Sample ID                    | Depth (unit)    | Matrix GW / SW Soil | Date/Time Sampled YY/MM/DD 24:00 | SOIL         |                   |                               |              |                       |                         | WATER   |            |                      |     |     |                               | Other Analysis |           |         |       |           |  | HOLD - Do not Analyze | # of Containers Submitted |  |  |  |  |  |
|------------------------------|-----------------|---------------------|----------------------------------|--------------|-------------------|-------------------------------|--------------|-----------------------|-------------------------|---------|------------|----------------------|-----|-----|-------------------------------|----------------|-----------|---------|-------|-----------|--|-----------------------|---------------------------|--|--|--|--|--|
|                              |                 |                     |                                  | BTEX F1-F4   | Sieve (75 micron) | Regulated Metals (CCME / AT1) | Salinity 4   | Assessment ICP Metals | Basic Class II Landfill | BTEX F1 | BTEX F1-F2 | Routine Water Turb F | TOC | DOC | Regulated Metals (CCME / AT1) | Total          | Dissolved | Mercury | Total | Dissolved |  |                       |                           |  |  |  |  |  |
| * 1 EX-13-LN (0-1m)          | 0-1m            | Soil                | 07-22-13                         | X            | X                 | X                             | X            |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 2 <del>EX-13-LN (0-1m)</del> | <del>0-1m</del> | <del>Soil</del>     | <del>07-22-13</del>              | <del>X</del> | <del>X</del>      | <del>X</del>                  | <del>X</del> |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| * 3 EX-13-LN (6m)            | 6m              | Soil                | 07-22-13                         | X            | X                 | X                             | X            |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 4                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 5                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 6                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 7                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 8                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 9                            |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 10                           |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 11                           |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |
| 12                           |                 |                     |                                  |              |                   |                               |              |                       |                         |         |            |                      |     |     |                               |                |           |         |       |           |  |                       |                           |  |  |  |  |  |

Please indicate Filtered, Preserved or Both (F, P, F/P)

Relinquished By (Signature/Print): Nicole Wills/Nicole Wills  
 Date (YY/MM/DD): 13/07/23  
 Time (24:00): 20:00  
 Relinquished By (Signature/Print):  
 Date (YY/MM/DD):  
 Time (24:00):  
 Special Instructions:  
 # of Jars Used & Not Submitted: Page 48 of 48

LAB USE ONLY  
 Received By: Amanda [Signature] Date: 10/23  
 Maxxam Job #: B33683810  
 Lab Comments: 14,14,13 7B  
 15,14,15 7B  
 Custody Seal: absent  
 Temperature: 7.6, 7.7, 8.5, 6  
 Ice: present





Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/31**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B363840**  
**Received: 2013/07/25, 10:23**

Sample Matrix: Soil  
 # Samples Received: 27

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|-------------------|
| Extractable Barium                     | 8        | 2013/07/31        | 2013/07/31       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Boron (Hot Water Soluble)              | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00042      | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 26       | 2013/07/25        | 2013/07/26       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/26        | 2013/07/27       | AB SOP-00039      | CCME, EPA 8260    |
| BTEX in Leachates by HS GC/MS          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00039      | EPA 1311/8260C    |
| Cation/EC Ratio                        | 26       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Cation/EC Ratio                        | 1        | N/A               | 2013/07/27       |                   | CALCULATION       |
| Chloride (Soluble)                     | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00020      | SSMA 4500 CL-E    |
| Chloride (Soluble)                     | 1        | 2013/07/28        | 2013/07/28       | AB SOP-00020      | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 26       | 2013/07/25        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENVSOP-00131     | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00004      | SSMA 15.3         |
| Conductivity @25C (Soluble)            | 1        | 2013/07/28        | 2013/07/28       | AB SOP-00004      | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 26       | 2013/07/25        | 2013/07/25       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/26        | 2013/07/28       | AB SOP-00040      | CCME PHC-CWS      |
|  |          |                   |                  | AB SOP-00036      |                   |
| Flash Point                            | 1        | N/A               | 2013/07/26       | AB SOP-00062      | ASTM D3828-12 A   |
| ICPMS Metals on TCLP Leachate          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Elements by ICPMS - Soils              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00043      | EPA 200.8         |
| Elements by ICPMS - Soils              | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00043      | EPA 200.8         |
| Ion Balance                            | 26       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Ion Balance                            | 1        | N/A               | 2013/07/27       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 26       | N/A               | 2013/07/26       | AB WI-00065       | SM 1030E          |
| Sum of Cations, Anions                 | 1        | N/A               | 2013/07/27       | AB WI-00065       | SM 1030E          |
| Moisture                               | 26       | N/A               | 2013/07/26       | AB SOP-00002      | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/27       | AB SOP-00002      | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 1        | N/A               | 2013/07/27       | AB SOP-00003      | EPA 8270D         |
| PAH in Soil by GC/MS                   | 1        | 2013/07/25        | 2013/07/27       | AB SOP-00003      | EPA 3540C/8270D   |
|  |          |                   |                  | AB SOP-00036      |                   |
| Free Liquid (Paint filter)             | 1        | N/A               | 2013/07/26       | AB SOP-00047      | EPA SW846/9095B   |
| pH @25C (1:2 Calcium Chloride Extract) | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00006      | SSMA 16.3         |
| pH @25C (1:1 extract, solid waste)     | 1        | 2013/07/26        | 2013/07/26       | AB SOP-00006      | SSMA 16.2         |
| Sodium Adsorption Ratio                | 26       | N/A               | 2013/07/26       | AB WI-00065       | SSMA 15.4.4       |
| Sodium Adsorption Ratio                | 1        | N/A               | 2013/07/27       | AB WI-00065       | SSMA 15.4.4       |



Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/07/31**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

-2-


Sample Matrix: Soil  
 # Samples Received: 27

| Analyses                           | Quantity | Date       |            | Laboratory Method | Analytical Method |
|------------------------------------|----------|------------|------------|-------------------|-------------------|
|                                    |          | Extracted  | Analyzed   |                   |                   |
| Ca,Mg,Na,K,SO4 (Soluble)           | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00042      | EPA 200.7         |
| Ca,Mg,Na,K,SO4 (Soluble)           | 1        | 2013/07/28 | 2013/07/28 | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                      | 26       | 2013/07/26 | 2013/07/26 | AB SOP-00033      | SSMA 15.2         |
| Soluble Paste                      | 1        | 2013/07/27 | 2013/07/27 | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation           | 27       | N/A        | 2013/07/26 |                   | CALCULATION       |
| Theoretical Gypsum Requirement (1) | 26       | N/A        | 2013/07/26 | CAL WI-00087      | CJSS 79:449-455   |
| Theoretical Gypsum Requirement (1) | 1        | N/A        | 2013/07/27 | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

Encryption Key

 Sherlyne Sim  
 01 Aug 2013 10:56:55 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugine@maxxam.ca  
 Phone# (780) 577-7144

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                     |             |                         |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9437                  | GZ9438      | GZ9439      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23              | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527                 | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>TP#3</b> | <b>TP#4</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.3     | 3.5     | 3.7 | 3.7     | 4.1     | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 46      | N/A | 22      | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 58      | <50     | N/A | <50     | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | <0.0050 | <0.0050 | 0.0050 | 7024356 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | <0.010  | <0.010  | 0.010  | 7024356 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 99      | N/A | 99      | 101     | N/A    | 7024356 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | N/A | 99      | 97      | N/A    | 7024356 |
| D10-ETHYLBENZENE (sur.)       | %     | 90      | 93      | N/A | 91      | 90      | N/A    | 7024356 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 100     | 99      | N/A | 97      | 100     | N/A    | 7024356 |
| O-TERPHENYL (sur.)            | %     | 104     | 104     | N/A | 105     | 96      | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |             |              |                 |              |                 |            |                 |
|---------------|--------------|-------------|--------------|-----------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9440      | GZ9441       |                 | GZ9442       | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/23  | 2013/07/23   |                 | 2013/07/23   | 2013/07/20      |            |                 |
| COC Number    |              | A134527     | A134527      |                 | A134527      | A134527         |            |                 |
|               | <b>UNITS</b> | <b>TP#5</b> | <b>TP#17</b> | <b>QC Batch</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |       |        |         |
|-------------------------------|-------|---------|---------|---------|---------|-------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |       |        |         |
| Moisture                      | %     | 3.1     | 2.4     | 7024996 | 5.0     | 22    | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 7022792 | 260     | 860   | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 61      | <50     | 7022792 | 410     | 790   | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | 7022792 | <50     | 200   | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | 7022792 | Yes     | Yes   | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |         |       |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | 7024356 | <0.0050 | 0.059 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 0.83  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 7024356 | <0.010  | 0.38  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 4.5   | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 2.9   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 1.7   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | 7024356 | <12     | 100   | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | 7024356 | <12     | 110   | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 112     | 7024356 | 102     | 114   | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 97      | 7024356 | 100     | 78    | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 92      | 106     | 7024356 | 120     | 124   | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 102     | 100     | 7024356 | 106     | 110   | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | 98      | 7022792 | 106     | 111   | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                  |                  |                  |                  |                  |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9444           | GZ9445           | GZ9446           | GZ9447           | GZ9448           |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134527          | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-ILB</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |       |       |         |        |         |        |         |
|-------------------------------|-------|-------|-------|---------|--------|---------|--------|---------|
| <b>Physical Properties</b>    |       |       |       |         |        |         |        |         |
| Moisture                      | %     | 13    | 17    | 8.3     | 6.6    | 13      | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |       |       |         |        |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 530   | 2500  | 400     | 810    | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 97    | 970   | <50     | 100    | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50   | 380   | <50     | <50    | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes   | Yes   | Yes     | Yes    | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |       |       |         |        |         |        |         |
| Benzene                       | mg/kg | 0.018 | 0.069 | <0.0050 | 0.0090 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | 0.12  | 1.2   | 0.026   | 0.062  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | 0.12  | 1.4   | 0.022   | 0.026  | 0.014   | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | 3.9   | 22    | 0.27    | 0.33   | 0.15    | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | 0.95  | 13    | 0.083   | 0.22   | 0.095   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | 3.0   | 9.1   | 0.19    | 0.11   | 0.054   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | 200   | 370   | 380     | 13     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | 210   | 400   | 380     | 14     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |       |       |         |        |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108   | 110   | 106     | 102    | 107     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 80    | 78    | 98      | 91     | 89      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 127   | 121   | 176 (1) | 120    | 120     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109   | 105   | 106     | 100    | 103     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 100   | 114   | 99      | 100    | 101     | N/A    | 7022792 |

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Surrogate recovery exceeds acceptance criteria due to matrix interference. Reanalysis yields similar results.



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9449           | GZ9449                   | GZ9453               | GZ9454               | GZ9454                       |            |                 |
|---------------|--------------|------------------|--------------------------|----------------------|----------------------|------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/21       | 2013/07/21               | 2013/07/22           | 2013/07/22           | 2013/07/22                   |            |                 |
| COC Number    |              | A134528          | A134528                  | A134528              | A134528              | A134528                      |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IDB</b> | <b>EX-13-IDB Lab-Dup</b> | <b>EX-13-AW (3M)</b> | <b>EX-13-AW (7M)</b> | <b>EX-13-AW (7M) Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |        |     |        |         |
|-------------------------------|-------|---------|---------|---------|--------|-----|--------|---------|
| Moisture                      | %     | 14      | N/A     | 13      | 12     | N/A | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |        |     |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | <10     | <10    | <10 | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes    | Yes | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |        |     |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.061  | N/A | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | 0.080  | N/A | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010 | N/A | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020 | N/A | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |     |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108     | 109     | 104     | 104    | N/A | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 100     | 94      | 97     | N/A | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121     | 122     | 114     | 93     | N/A | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105     | 107     | 87      | 101    | N/A | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | N/A     | 91      | 104    | 108 | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9455               | GZ9456               | GZ9457               | GZ9457                       | GZ9458               |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|------------------------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/22           | 2013/07/22           | 2013/07/22           | 2013/07/22                   | 2013/07/22           |            |                 |
| COC Number    |              | A134528              | A134528              | A134528              | A134528                      | A134528              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW (1M)</b> | <b>EX-13-BW (6M)</b> | <b>EX-13-CW (5M)</b> | <b>EX-13-CW (5M) Lab-Dup</b> | <b>EX-13-DW (6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |        |         |     |         |        |         |
|-------------------------------|-------|---------|--------|---------|-----|---------|--------|---------|
| Moisture                      | %     | 14      | 23     | 13      | 12  | 21      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |        |         |     |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10    | <10     | N/A | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 60      | <50    | <50     | N/A | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50    | <50     | N/A | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes    | Yes     | N/A | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |        |         |     |         |        |         |
| Benzene                       | mg/kg | <0.0050 | 0.0084 | <0.0050 | N/A | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010 | <0.010  | N/A | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |        |         |     |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 110    | 106     | N/A | 109     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 96     | 95      | N/A | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 95      | 97     | 93      | N/A | 94      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 99      | 100    | 94      | N/A | 97      | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 109     | 105    | 108     | N/A | 97      | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                            |                          |                          |                          |                            |            |                 |
|---------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     | GZ9466                   | GZ9467                   | GZ9468                   | GZ9469                     |            |                 |
| Sampling Date |              | 2013/07/22                 | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                    | A134528                  | A134528                  | A134528                  | A134516                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
| Moisture                      | %     | 3.2     | 17      | 4.7     | 27      | 25      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10     | 12      | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 100     | 230     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.037   | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 108     | 101     | 112     | 111     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 94      | 95      | 97      | 95      | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 91      | 92      | 93      | 95      | 89      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 94      | 95      | 101     | 97      | 109     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 106     | 95      | 117     | 108     | 102     | N/A    | 7021306 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                 |                      |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ9471                   |                 | HA0382               |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/21           |            |                 |
| COC Number    |              | A134516                  |                 | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |       |        |         |
|--|-------|---------|---------|-------|--------|---------|
| Moisture   | %     | 6.7     | 7025403 | 18    | 0.30   | 7027480 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 7021306 | 120   | 10     | 7015681 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 7021306 | 100   | 50     | 7015681 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 7021306 | <50   | 50     | 7015681 |
| Reached Baseline at C50                                  | mg/kg | Yes     | 7021306 | Yes   | N/A    | 7015681 |
| <b>Volatiles</b>   |       |         |         |       |        |         |
| Benzene  | mg/kg | <0.0050 | 7024383 | 0.11  | 0.0050 | 7020731 |
| Toluene  | mg/kg | <0.020  | 7024383 | 0.14  | 0.020  | 7020731 |
| Ethylbenzene   | mg/kg | <0.010  | 7024383 | 0.097 | 0.010  | 7020731 |
| Xylenes (Total)  | mg/kg | <0.040  | 7024383 | 1.4   | 0.040  | 7020731 |
| m & p-Xylene   | mg/kg | <0.040  | 7024383 | 0.87  | 0.040  | 7020731 |
| o-Xylene   | mg/kg | <0.020  | 7024383 | 0.54  | 0.020  | 7020731 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 7024383 | 34    | 12     | 7020731 |
| (C6-C10)   | mg/kg | <12     | 7024383 | 36    | 12     | 7020731 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 103     | 7024383 | 122   | N/A    | 7020731 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 96      | 7024383 | 101   | N/A    | 7020731 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 95      | 7024383 | 123   | N/A    | 7020731 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 102     | 7024383 | 96    | N/A    | 7020731 |
| O-TERPHENYL (sur.)                                       | %     | 102     | 7021306 | 84    | N/A    | 7015681 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |       |        |         |

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                 |             |                         |            |                 |
|---------------|--------------|---------------------|------------|-----------------|-------------|-------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              |            |                 | GZ9437      | GZ9437                  |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 |            |                 | 2013/07/23  | 2013/07/23              |            |                 |
| COC Number    |              | A134527             |            |                 | A134527     | A134527                 |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>RDL</b> | <b>QC Batch</b> | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |         |       |      |       |         |
|--------------------------------|-----------|-------|-------|---------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 7022359 | 2.2   | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.5   | N/A   | 7022359 | 3.4   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 7021708 | 11    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.0   | 0.010 | 7022358 | 1.5   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.60  | 7020006 | 12    | N/A  | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.3   | 0.40  | 7020006 | 1.8   | N/A  | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 9.2   | 1.0   | 7020006 | 6.5   | N/A  | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.9   | 0.52  | 7020006 | 4.5   | N/A  | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 6.8   | 2.0   | 7020006 | 3.5   | N/A  | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 2.0   | 7020006 | 31    | N/A  | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |         |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 7026083 | 11    | N/A  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.30  | 0.020 | 7024503 | 0.31  | N/A  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.61  | N/A   | 7024030 | 7.76  | 7.84 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.93  | 0.10  | 7021713 | 0.81  | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 7026327 | 35    | N/A  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 5.6   | 1.0   | 7026327 | 5.6   | N/A  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 23    | 2.5   | 7026327 | 19    | N/A  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 7.1   | 1.3   | 7026327 | 14    | N/A  | 1.3   | 7026327 |
| Saturation %                   | %         | 40    | N/A   | 7024196 | 33    | N/A  | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 61    | 5.0   | 7026327 | 93    | N/A  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | 7021714 | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

### SOIL SALINITY 4 (SOIL)

|               |              |             |            |             |            |             |            |              |            |                 |
|---------------|--------------|-------------|------------|-------------|------------|-------------|------------|--------------|------------|-----------------|
| Maxxam ID     |              | GZ9438      |            | GZ9439      |            | GZ9440      |            | GZ9441       |            |                 |
| Sampling Date |              | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23   |            |                 |
| COC Number    |              | A134527     |            | A134527     |            | A134527     |            | A134527      |            |                 |
|               | <b>UNITS</b> | <b>TP#3</b> | <b>RDL</b> | <b>TP#4</b> | <b>RDL</b> | <b>TP#5</b> | <b>RDL</b> | <b>TP#17</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.49  | N/A   | 0.89  | N/A   | 0.63  | N/A   | 0.21  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 1.2   | N/A   | 2.9   | N/A   | 1.9   | N/A   | 1.2   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 14    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.5   | 0.010 | 3.2   | 0.010 | 3.0   | 0.010 | 5.7   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 2.3   | 0.44  | 7.6   | 0.48  | 4.7   | 0.47  | 3.3   | 0.48  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.44  | 0.30  | 1.5   | 0.32  | 0.84  | 0.31  | 0.57  | 0.32  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.74  | 6.6   | 0.80  | 4.1   | 0.78  | 3.0   | 0.81  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.0   | 0.39  | 5.0   | 0.42  | 4.0   | 0.41  | 1.4   | 0.42  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <1.5  | 1.5   | <1.6  | 1.6   | <1.6  | 1.6   | <1.6  | 1.6   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 7.0   | 1.5   | 14    | 1.6   | 9.4   | 1.6   | 3.2   | 1.6   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.020 | 0.23  | 0.020 | 0.15  | 0.020 | 0.085 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.17  | N/A   | 7.60  | N/A   | 7.53  | N/A   | 6.67  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 1.1   | 0.10  | 1.0   | 0.10  | 0.82  | 0.10  | 0.71  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 7.8   | 1.5   | 24    | 1.5   | 15    | 1.5   | 10    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 1.5   | 1.0   | 4.6   | 1.0   | 2.7   | 1.0   | 1.8   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 21    | 2.5   | 13    | 2.5   | 9.4   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 6.9   | 1.3   | 16    | 1.3   | 13    | 1.3   | 4.5   | 1.3   | 7026327 |
| Saturation %                   | %         | 30    | N/A   | 32    | N/A   | 31    | N/A   | 32    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 24    | 5.0   | 43    | 5.0   | 30    | 5.0   | 9.9   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |              |            |                 |            |                  |            |                  |            |                 |
|---------------|--------------|--------------|------------|-----------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9442       |            | GZ9443          |            | GZ9444           |            | GZ9445           |            |                 |
| Sampling Date |              | 2013/07/23   |            | 2013/07/20      |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527      |            | A134527         |            | A134527          |            | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#18</b> | <b>RDL</b> | <b>DS13-001</b> | <b>RDL</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>EX-13-IJB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.76  | N/A   | 12    | N/A   | 4.2   | N/A   | 16    | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.9   | N/A   | 12    | N/A   | 5.1   | N/A   | 16    | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 13    | 0.10  | 9.3   | 0.10  | 11    | 0.10  | 11    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 3.8   | 0.010 | 1.0   | 0.010 | 1.2   | 0.010 | 1.0   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.63  | 28    | 0.55  | 20    | 0.53  | 81    | 0.57  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.42  | 7.4   | 0.37  | 4.2   | 0.35  | 13    | 0.38  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.1   | 1.1   | 50    | 0.92  | 9.0   | 0.88  | 23    | 0.95  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 4.5   | 0.54  | 5.8   | 0.48  | 2.9   | 0.46  | 4.7   | 0.49  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <2.1  | 2.1   | 72    | 1.8   | 4.0   | 1.8   | 34    | 1.9   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 15    | 2.1   | 110   | 1.8   | 65    | 1.8   | 250   | 1.9   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | 200   | 5.0   | 11    | 5.0   | 90    | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 1.3   | 0.020 | 0.45  | 0.020 | 1.5   | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.53  | N/A   | 7.16  | N/A   | 7.23  | N/A   | 6.90  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.41  | 0.10  | 3.6   | 0.10  | 0.80  | 0.10  | 1.0   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 76    | 1.5   | 56    | 1.5   | 210   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 20    | 1.0   | 12    | 1.0   | 35    | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 9.7   | 2.5   | 130   | 2.5   | 25    | 2.5   | 60    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 11    | 1.3   | 16    | 1.3   | 8.3   | 1.3   | 12    | 1.3   | 7026327 |
| Saturation %                   | %         | 42    | N/A   | 37    | N/A   | 35    | N/A   | 38    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 36    | 5.0   | 290   | 5.0   | 180   | 5.0   | 650   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit





Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                  |            |                  |            |                  |            |                  |            |                 |
|---------------|--------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9446           |            | GZ9447           |            | GZ9448           |            | GZ9449           |            |                 |
| Sampling Date |              | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527          |            | A134527          |            | A134528          |            | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IKE</b> | <b>RDL</b> | <b>EX-13-ILE</b> | <b>RDL</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>EX-13-IDB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 3.5   | N/A   | 1.3   | N/A   | 1.8   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.3   | N/A   | 4.3   | N/A   | 2.8   | N/A   | 2.8   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.4   | 0.010 | 1.2   | 0.010 | 2.0   | 0.010 | 1.5   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.53  | 18    | 0.54  | 8.5   | 0.48  | 10    | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.2   | 0.35  | 3.2   | 0.36  | 2.1   | 0.32  | 2.4   | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.89  | 7.2   | 0.90  | 5.2   | 0.79  | 4.6   | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 1.6   | 0.47  | 1.8   | 0.41  | 1.5   | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.1   | 1.8   | 7.2   | 1.8   | 5.3   | 1.6   | 2.9   | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 1.8   | 50    | 1.8   | 13    | 1.6   | 26    | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.9   | 5.0   | 20    | 5.0   | 17    | 5.0   | 8.5   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.21  | 0.020 | 0.37  | 0.020 | 0.23  | 0.020 | 0.24  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.26  | N/A   | 6.99  | N/A   | 7.64  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.68  | 0.10  | 0.73  | 0.10  | 0.58  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 51    | 1.5   | 27    | 1.5   | 31    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 3.3   | 1.0   | 9.0   | 1.0   | 6.7   | 1.0   | 7.2   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 10    | 2.5   | 20    | 2.5   | 16    | 2.5   | 14    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 4.5   | 1.3   | 5.7   | 1.3   | 4.4   | 1.3   | 7026327 |
| Saturation %                   | %         | 36    | N/A   | 36    | N/A   | 32    | N/A   | 33    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 68    | 5.0   | 140   | 5.0   | 42    | 5.0   | 77    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                          |            |                          |                                      |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|--------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            | GZ9454                   |            | GZ9455                   | GZ9455                               |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               | 2013/07/22                           |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  | A134528                              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>EX-13-AW<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(1M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |      |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 2.0   | N/A   | 2.7   | N/A   | 0.94  | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.8   | N/A   | 4.4   | N/A   | 2.9   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 10    | 0.10  | 15    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.9   | 0.010 | 1.6   | 0.010 | 3.1   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 18    | 0.68  | 16    | 0.53  | 6.8   | N/A  | 0.74  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.8   | 0.45  | 2.3   | 0.35  | 1.4   | N/A  | 0.49  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 11    | 1.1   | 10    | 0.88  | 22    | N/A  | 1.2   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.3   | 0.59  | 3.6   | 0.46  | 1.1   | N/A  | 0.64  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 16    | 2.3   | 12    | 1.8   | 9.0   | N/A  | 2.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 22    | 2.3   | 29    | 1.8   | 10    | N/A  | 2.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 35    | 5.0   | 35    | 5.0   | 18    | 10   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.42  | 0.020 | 0.19  | 0.19 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.12  | N/A   | 7.24  | N/A   | 7.00  | N/A  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.89  | 0.10  | 1.1   | 0.10  | 2.9   | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 40    | 1.5   | 46    | 1.5   | 14    | 12   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 8.3   | 1.0   | 6.4   | 1.0   | 2.8   | 2.3  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 24    | 2.5   | 30    | 2.5   | 45    | 43   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 5.0   | 1.3   | 10    | 1.3   | 2.1   | 1.6  | 1.3   | 7026327 |
| Saturation %                   | %         | 45    | N/A   | 35    | N/A   | 49    | 49   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 48    | 5.0   | 83    | 5.0   | 20    | 18   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                          |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9456                   |            | GZ9457                   |            | GZ9458                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW<br/>(6M)</b> | <b>RDL</b> | <b>EX-13-CW<br/>(5M)</b> | <b>RDL</b> | <b>EX-13-DW<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |         |       |       |       |      |       |         |
|--------------------------------|-----------|---------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 20      | N/A   | 3.3   | N/A   | 18   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 22      | N/A   | 4.1   | N/A   | 19   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 9.9     | 0.10  | 10    | 0.10  | 9.7  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.1     | 0.010 | 1.2   | 0.010 | 1.0  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 34      | 0.50  | 11    | 0.51  | 42   | 0.54  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 8.4     | 0.34  | 2.1   | 0.34  | 12   | 0.36  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 110     | 0.84  | 13    | 0.85  | 83   | 0.91  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 3.9     | 0.44  | 2.6   | 0.44  | 3.7  | 0.47  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 150     | 3.4   | 7.3   | 1.7   | 140  | 1.8   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 120     | 1.7   | 44    | 1.7   | 120  | 1.8   | 7022361 |
| <b>Soluble Parameters</b>      |           |         |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 440 (1) | 10    | 21    | 5.0   | 400  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 2.2     | 0.020 | 0.40  | 0.020 | 1.9  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.39    | N/A   | 7.62  | N/A   | 7.19 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 7.7     | 0.10  | 1.7   | 0.10  | 4.9  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 100     | 1.5   | 33    | 1.5   | 120  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 25      | 1.0   | 6.3   | 1.0   | 33   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 330     | 2.5   | 39    | 2.5   | 230  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 12      | 1.3   | 7.7   | 1.3   | 10   | 1.3   | 7026327 |
| Saturation %                   | %         | 34      | N/A   | 34    | N/A   | 36   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 360     | 5.0   | 130   | 5.0   | 330  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | 1.1     | 0.10  | <0.10 | 0.10  | 0.24 | 0.10  | 7021714 |

RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to dilution to bring analyte within the calibrated range.



Maxxam Job #: B363840  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                            |            |                          |            |                 |                          |            |                 |
|---------------|--------------|----------------------------|------------|--------------------------|------------|-----------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     |            | GZ9466                   |            |                 | GZ9467                   |            |                 |
| Sampling Date |              | 2013/07/22                 |            | 2013/07/22               |            |                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                    |            | A134528                  |            |                 | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-DN<br/>(7M)</b> | <b>RDL</b> | <b>QC Batch</b> | <b>EX-13-EN<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.1   | N/A   | 7.0   | N/A   | 7022359 | 0.23  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.7   | N/A   | 7.1   | N/A   | 7022359 | 1.7   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 10    | 0.10  | 7021708 | 14    | 0.10  | 7022350 |
| Ion Balance                    | N/A       | 2.4   | 0.010 | 1.0   | 0.010 | 7022358 | 7.4   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 10    | 0.59  | 22    | 0.45  | 7022361 | 4.4   | 0.44  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.39  | 5.7   | 0.30  | 7022361 | 0.61  | 0.29  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.7   | 0.98  | 12    | 0.75  | 7022361 | 4.5   | 0.73  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 7.7   | 0.51  | 2.9   | 0.39  | 7022361 | 0.74  | 0.38  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.4   | 2.0   | 5.3   | 1.5   | 7022361 | <1.5  | 1.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 17    | 2.0   | 93    | 1.5   | 7022361 | 3.1   | 1.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.6   | 5.0   | 18    | 5.0   | 7026562 | <5.0  | 5.0   | 7026562 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 0.71  | 0.020 | 7025245 | 0.12  | 0.020 | 7025245 |
| Soluble (CaCl2) pH             | N/A       | 7.25  | N/A   | 7.46  | N/A   | 7024049 | 7.74  | N/A   | 7024049 |
| Sodium Adsorption Ratio        | N/A       | 0.57  | 0.10  | 1.1   | 0.10  | 7021713 | 0.99  | 0.10  | 7022360 |
| Soluble Calcium (Ca)           | mg/L      | 26    | 1.5   | 72    | 1.5   | 7026924 | 15    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 19    | 1.0   | 7026924 | 2.1   | 1.0   | 7026924 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 40    | 2.5   | 7026924 | 15    | 2.5   | 7026924 |
| Soluble Potassium (K)          | mg/L      | 20    | 1.3   | 9.8   | 1.3   | 7026924 | 2.5   | 1.3   | 7026924 |
| Saturation %                   | %         | 39    | N/A   | 30    | N/A   | 7024253 | 29    | N/A   | 7024253 |
| Soluble Sulphate (SO4)         | mg/L      | 42    | 5.0   | 310   | 5.0   | 7026924 | 11    | 5.0   | 7026924 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 | <0.10 | 0.10  | 7022362 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                            |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|----------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9468                   |            | GZ9469                     |            | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22                 |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134516                    |            | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |       |       |       |       |         |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                        | meq/L     | 19    | N/A   | 1.0   | N/A   | 2.9   | N/A   | 7022359 |
| Cation Sum                       | meq/L     | 18    | N/A   | 2.2   | N/A   | 4.7   | N/A   | 7022359 |
| Cation/EC Ratio                  | N/A       | 12    | 0.10  | 13    | 0.10  | 12    | 0.10  | 7022350 |
| Ion Balance                      | N/A       | 0.98  | 0.010 | 2.1   | 0.010 | 1.6   | 0.010 | 7022358 |
| Calculated Calcium (Ca)          | mg/kg     | 90    | 0.62  | 25    | 2.1   | 28    | 0.82  | 7022361 |
| Calculated Magnesium (Mg)        | mg/kg     | 27    | 0.41  | 7.3   | 1.4   | 7.4   | 0.55  | 7022361 |
| Calculated Sodium (Na)           | mg/kg     | 16    | 1.0   | 28    | 3.5   | 4.9   | 1.4   | 7022361 |
| Calculated Potassium (K)         | mg/kg     | 3.7   | 0.53  | 1.9   | 1.8   | 14    | 0.71  | 7022361 |
| Calculated Chloride (Cl)         | mg/kg     | 32    | 2.1   | 10    | 7.0   | 4.0   | 2.7   | 7022361 |
| Calculated Sulphate (SO4)        | mg/kg     | 320   | 2.1   | 56    | 7.0   | 70    | 2.7   | 7022361 |
| <b>Soluble Parameters</b>        |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | 77    | 5.0   | 7.4   | 5.0   | 7.3   | 5.0   | 7026562 |
| Soluble Conductivity             | dS/m      | 1.5   | 0.020 | 0.18  | 0.020 | 0.41  | 0.020 | 7025245 |
| Soluble (CaCl2) pH               | N/A       | 6.72  | N/A   | 6.10  | N/A   | 6.64  | N/A   | 7024049 |
| Sodium Adsorption Ratio          | N/A       | 0.58  | 0.10  | 1.1   | 0.10  | 0.29  | 0.10  | 7022360 |
| Soluble Calcium (Ca)             | mg/L      | 220   | 1.5   | 17    | 1.5   | 51    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)           | mg/L      | 66    | 1.0   | 5.2   | 1.0   | 13    | 1.0   | 7026924 |
| Soluble Sodium (Na)              | mg/L      | 39    | 2.5   | 20    | 2.5   | 8.9   | 2.5   | 7026924 |
| Soluble Potassium (K)            | mg/L      | 8.9   | 1.3   | 1.4   | 1.3   | 25    | 1.3   | 7026924 |
| Saturation %                     | %         | 41    | N/A   | 140   | N/A   | 55    | N/A   | 7024253 |
| Soluble Sulphate (SO4)           | mg/L      | 790   | 5.0   | 40    | 5.0   | 130   | 5.0   | 7026924 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7022362 |
| RDL = Reportable Detection Limit |           |       |       |       |       |       |       |         |

### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                 |
|---------------|--------------|----------------------|------------|-----------------|
| Maxxam ID     |              | HA0382               |            |                 |
| Sampling Date |              | 2013/07/21           |            |                 |
| COC Number    |              | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |      |       |         |
|----------------------------------|-----------|------|-------|---------|
| Anion Sum                        | meq/L     | 6.0  | N/A   | 7025961 |
| Cation Sum                       | meq/L     | 6.4  | N/A   | 7025961 |
| Cation/EC Ratio                  | N/A       | 9.0  | 0.10  | 7025954 |
| Ion Balance                      | N/A       | 1.1  | 0.010 | 7025960 |
| Calculated Calcium (Ca)          | mg/kg     | 2.7  | 0.54  | 7025964 |
| Calculated Magnesium (Mg)        | mg/kg     | 0.76 | 0.36  | 7025964 |
| Calculated Sodium (Na)           | mg/kg     | 45   | 0.90  | 7025964 |
| Calculated Potassium (K)         | mg/kg     | 5.4  | 0.47  | 7025964 |
| Calculated Chloride (Cl)         | mg/kg     | 36   | 1.8   | 7025964 |
| Calculated Sulphate (SO4)        | mg/kg     | 55   | 1.8   | 7025964 |
| <b>Soluble Parameters</b>        |           |      |       |         |
| Soluble Chloride (Cl)            | mg/L      | 100  | 5.0   | 7028052 |
| Soluble Conductivity             | dS/m      | 0.72 | 0.020 | 7027970 |
| Soluble (CaCl2) pH               | N/A       | 6.94 | N/A   | 7027624 |
| Sodium Adsorption Ratio          | N/A       | 10   | 0.10  | 7025962 |
| Soluble Calcium (Ca)             | mg/L      | 7.5  | 1.5   | 7028146 |
| Soluble Magnesium (Mg)           | mg/L      | 2.1  | 1.0   | 7028146 |
| Soluble Sodium (Na)              | mg/L      | 130  | 2.5   | 7028146 |
| Soluble Potassium (K)            | mg/L      | 15   | 1.3   | 7028146 |
| Saturation %                     | %         | 36   | N/A   | 7027318 |
| Soluble Sulphate (SO4)           | mg/L      | 150  | 5.0   | 7028146 |
| Theoretical Gypsum Requirement   | tonnes/ha | 0.19 | 0.10  | 7025965 |
| RDL = Reportable Detection Limit |           |      |       |         |





Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |        |        |       |         |
|--|--------|--------|-------|---------|
| <b>Soluble Parameters</b>                                |        |        |       |         |
| Soluble (1:1) pH   | N/A    | 7.44   | N/A   | 7024529 |
| <b>Physical Properties</b>                               |        |        |       |         |
| Closed Cup Flash point                                   | deg. C | >61    | N/A   | 7026825 |
| Free Liquid  | N/A    | PASS   | N/A   | 7026879 |
| <b>Elements</b>  |        |        |       |         |
| Leachable Antimony (Sb)                                  | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Arsenic (As)                                   | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Barium (Ba)                                    | mg/L   | 2.2    | 1.0   | 7023787 |
| Leachable Beryllium (Be)                                 | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Boron (B)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Cadmium (Cd)                                   | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Chromium (Cr)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Cobalt (Co)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Copper (Cu)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Iron (Fe)                                      | mg/L   | 11     | 1.0   | 7023787 |
| Leachable Lead (Pb)                                      | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Mercury (Hg)                                   | mg/L   | <0.020 | 0.020 | 7023787 |
| Leachable Nickel (Ni)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Selenium (Se)                                  | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Silver (Ag)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Thallium (Tl)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Uranium (U)                                    | mg/L   | <0.20  | 0.20  | 7023787 |
| Leachable Vanadium (V)                                   | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zinc (Zn)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zirconium (Zr)                                 | mg/L   | <1.0   | 1.0   | 7023787 |
| <b>Volatiles</b>   |        |        |       |         |
| Leachable (ZH) Benzene                                   | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) Toluene                                   | ug/L   | 18     | 10    | 7024500 |
| Leachable (ZH) Ethylbenzene                              | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) o-Xylene                                  | ug/L   | 53     | 10    | 7024500 |
| Leachable (ZH) m & p-Xylene                              | ug/L   | 80     | 20    | 7024500 |
| Leachable (ZH) Xylenes (Total)                           | ug/L   | 130    | 20    | 7024500 |
| <b>Surrogate Recovery (%)</b>                            |        |        |       |         |
| Leachable (ZH) 1,4-Difluorobenzene (sur.)                | %      | 91     | N/A   | 7024500 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |        |        |       |         |



Maxxam Job #: B363840  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|   |   |    |     |         |
|---|---|----|-----|---------|
| Leachable (ZH) 4-BROMOFLUOROBENZENE (sur.)  | % | 98 | N/A | 7024500 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE (sur.) | % | 87 | N/A | 7024500 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |             |             |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.19  | 0.11  | 0.19  | 0.25  | <0.10 | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.6   | 6.4   | 6.5   | 5.0   | 4.5   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 2300  | 1700  | 1100  | 1900  | 580   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | 0.26  | <0.10 | <0.10 | <0.10 | <0.10 | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 6.8   | 5.3   | 6.8   | 5.3   | 4.6   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 2.7   | 3.0   | 2.7   | 2.2   | 1.9   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | 10    | 6.2   | 8.0   | 6.1   | <5.0  | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 61    | 18    | 18    | 18    | 9.1   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | 0.12  | 0.064 | 0.061 | 0.072 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.68  | 0.61  | 0.98  | 0.50  | <0.40 | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 7.0   | 7.1   | 6.9   | 5.2   | 4.9   | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 11    | 11    | 10    | 9.7   | 8.6   | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 77    | 29    | 23    | 29    | 17    | 10    | 7026100 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |              |              |                 |                 |                  |            |                 |
|---------------|--------------|--------------|--------------|-----------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       | GZ9442       | GZ9443          |                 | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   | 2013/07/23   | 2013/07/20      |                 | 2013/07/21       |            |                 |
| COC Number    |              | A134527      | A134527      | A134527         |                 | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>QC Batch</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |        |         |        |       |         |
|-------------------------------|-------|-------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.11  | 0.34  | 0.72   | 7026671 | 0.39   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15  | 7024524 | <0.15  | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | 1.2    | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 7.9   | 6.7   | 5.5    | 7026100 | 5.9    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 740   | 1100  | 420    | 7026100 | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40  | 7026100 | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.11  | 0.17  | 0.18   | 7026100 | 0.23   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 6.6   | 110   | 11     | 7026100 | 13     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9   | 3.3   | 3.8    | 7026100 | 3.9    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 6.8   | 7.9   | 11     | 7026100 | 14     | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 8.4   | 22    | 16     | 7026100 | 13     | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | 0.053 | 0.081 | <0.050 | 7026100 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.66  | 0.74  | 0.67   | 7026100 | 0.80   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 9.2   | 8.5   | 12     | 7026100 | 14     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50  | 7026100 | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30  | 7026100 | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | 1.3    | 7026100 | 2.0    | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 15    | 13    | 11     | 7026100 | 14     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 28    | 30    | 46     | 7026100 | 57     | 10    | 7024736 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                  |                  |                  |                  |                  |                          |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           | GZ9449           | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/22               |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          | A134528          | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>EX-13-IDB</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |        |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.50   | <0.10  | <0.10  | 0.20   | <0.10  | 0.90   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.1    | 4.9    | 4.4    | 5.6    | 5.2    | 8.1    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 1900   | 82     | 120    | 350    | 91     | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.22   | <0.10  | <0.10  | <0.10  | <0.10  | 0.12   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 6.3    | 6.6    | 25     | 7.0    | 11     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.4    | 4.0    | 3.8    | 3.5    | 3.8    | 4.2    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 25     | <5.0   | <5.0   | <5.0   | <5.0   | 6.5    | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 18     | 3.0    | 3.7    | 6.5    | 3.3    | 4.8    | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.63   | 0.47   | <0.40  | 0.81   | 0.46   | 0.62   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 10     | 11     | 10     | 17     | 10     | 12     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | 3.9    | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 14     | 12     | 13     | 13     | 13     | 20     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 60     | 27     | 30     | 26     | 27     | 34     | 10    | 7024736 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                          |                          |                          |                          |                                      |            |                 |
|---------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9454                   | GZ9455                   | GZ9456                   | GZ9457                   | GZ9458                   | GZ9458                               |            |                 |
| Sampling Date |              | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                           |            |                 |
| COC Number    |              | A134528                  | A134528                  | A134528                  | A134528                  | A134528                  | A134528                              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(7M)</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(6M)</b> | <b>EX-13-CW<br/>(5M)</b> | <b>EX-13-DW<br/>(6M)</b> | <b>EX-13-DW<br/>(6M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |       |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.20   | 0.39   | 0.50   | 0.22   | 0.21   | N/A   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15 | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.6    | 6.0    | 5.6    | 5.8    | 5.2    | N/A   | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 97     | 210    | 100    | 100    | 86     | N/A   | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | N/A   | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 0.11   | <0.10  | <0.10  | <0.10  | N/A   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 10     | 12     | 8.2    | 9.4    | N/A   | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9    | 4.4    | 4.2    | 4.4    | 3.9    | N/A   | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | <5.0   | 5.8    | <5.0   | <5.0   | <5.0   | N/A   | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 3.5    | 4.5    | 3.4    | 3.6    | 3.2    | N/A   | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | N/A   | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.58   | 0.57   | 0.60   | 0.55   | 0.49   | N/A   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 12     | 13     | 14     | 13     | 12     | N/A   | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | N/A   | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | N/A   | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | N/A   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 13     | 17     | 14     | 15     | 13     | N/A   | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 29     | 25     | 29     | 33     | 27     | N/A   | 10    | 7024736 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit





Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                            |                          |                          |                          |                 |                            |            |                 |
|---------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|-----------------|----------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     | GZ9466                   | GZ9467                   | GZ9468                   |                 | GZ9469                     |            |                 |
| Sampling Date |              | 2013/07/22                 | 2013/07/22               | 2013/07/22               | 2013/07/22               |                 | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                    | A134528                  | A134528                  | A134528                  |                 | A134516                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>QC Batch</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |         |       |       |         |
|-------------------------------|-------|--------|--------|--------|--------|---------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.22   | 0.18   | <0.10  | 2.6    | 7025702 | 0.84  | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | 7024522 | <0.15 | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.1    | 5.3    | 6.1    | 13     | 7024736 | 5.1   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 120    | 89     | 76     | 210    | 7024736 | 480   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | 7024736 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | <0.10  | <0.10  | 0.98   | 7024736 | 0.20  | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 12     | 9.4    | 9.4    | 9.3    | 7024736 | 6.8   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 4.1    | 3.9    | 3.6    | 6.8    | 7024736 | 3.7   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | <5.0   | <5.0   | <5.0   | 7.4    | 7024736 | 7.7   | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 3.6    | 3.1    | 3.0    | 4.6    | 7024736 | 9.6   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | 7024736 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.57   | 0.52   | 0.51   | 1.4    | 7024736 | 0.50  | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 14     | 12     | 12     | 18     | 7024736 | 11    | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | 7024736 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | 7024736 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | 1.2    | 7024736 | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 13     | 13     | 12     | 21     | 7024736 | 14    | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 28     | 26     | 25     | 40     | 7024736 | 28    | 10    | 7026100 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                          |                 |                      |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ9471                   |                 | HA0382               |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/21           |            |                 |
| COC Number    |              | A134516                  |                 | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |         |        |       |         |
|-------------------------------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.56   | 7026671 | 0.49   | 0.10  | 7027660 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | 7024522 | <0.15  | 0.15  | 7024535 |
| Total Antimony (Sb)           | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Arsenic (As)            | mg/kg | 4.9    | 7026100 | 5.4    | 1.0   | 7027493 |
| Total Barium (Ba)             | mg/kg | 220    | 7026100 | 140    | 10    | 7027493 |
| Total Beryllium (Be)          | mg/kg | <0.40  | 7026100 | <0.40  | 0.40  | 7027493 |
| Total Cadmium (Cd)            | mg/kg | <0.10  | 7026100 | <0.10  | 0.10  | 7027493 |
| Total Chromium (Cr)           | mg/kg | 5.0    | 7026100 | 6.7    | 1.0   | 7027493 |
| Total Cobalt (Co)             | mg/kg | 2.8    | 7026100 | 3.7    | 1.0   | 7027493 |
| Total Copper (Cu)             | mg/kg | <5.0   | 7026100 | 5.4    | 5.0   | 7027493 |
| Total Lead (Pb)               | mg/kg | 6.0    | 7026100 | 4.8    | 1.0   | 7027493 |
| Total Mercury (Hg)            | mg/kg | <0.050 | 7026100 | <0.050 | 0.050 | 7027493 |
| Total Molybdenum (Mo)         | mg/kg | 0.45   | 7026100 | 0.55   | 0.40  | 7027493 |
| Total Nickel (Ni)             | mg/kg | 7.0    | 7026100 | 11     | 1.0   | 7027493 |
| Total Selenium (Se)           | mg/kg | <0.50  | 7026100 | <0.50  | 0.50  | 7027493 |
| Total Silver (Ag)             | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Thallium (Tl)           | mg/kg | <0.30  | 7026100 | <0.30  | 0.30  | 7027493 |
| Total Tin (Sn)                | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Uranium (U)             | mg/kg | <1.0   | 7026100 | <1.0   | 1.0   | 7027493 |
| Total Vanadium (V)            | mg/kg | 9.6    | 7026100 | 12     | 1.0   | 7027493 |
| Total Zinc (Zn)               | mg/kg | 29     | 7026100 | 29     | 10    | 7027493 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**RESULTS OF CHEMICAL ANALYSES OF SOIL**

|               |              |                     |             |             |             |             |              |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|--------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      | GZ9441       |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23   |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     | A134527      |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>TP#17</b> | <b>RDL</b> | <b>QC Batch</b> |

|                         |       |    |    |    |    |    |    |     |         |
|-------------------------|-------|----|----|----|----|----|----|-----|---------|
| <b>Elements</b>         |       |    |    |    |    |    |    |     |         |
| Extractable Barium (Ba) | mg/kg | 45 | 36 | 44 | 45 | 34 | 40 | 1.0 | 7037181 |

RDL = Reportable Detection Limit

|               |              |              |                  |            |                 |
|---------------|--------------|--------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9442       | GZ9445           |            |                 |
| Sampling Date |              | 2013/07/23   | 2013/07/21       |            |                 |
| COC Number    |              | A134527      | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#18</b> | <b>EX-13-IJB</b> | <b>RDL</b> | <b>QC Batch</b> |

|                         |       |    |    |     |         |
|-------------------------|-------|----|----|-----|---------|
| <b>Elements</b>         |       |    |    |     |         |
| Extractable Barium (Ba) | mg/kg | 22 | 27 | 1.0 | 7037181 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SEMIVOLATILE ORGANICS BY GC-MS (SOIL)**

|               |              |                          |            |                 |
|---------------|--------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Polycyclic Aromatics</b>   |       |         |        |         |
|-------------------------------|-------|---------|--------|---------|
| Acenaphthene                  | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[a]pyrene equivalency    | mg/kg | <0.10   | 0.10   | 7021178 |
| Acenaphthylene                | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Acridine                      | mg/kg | <0.010  | 0.010  | 7023968 |
| Anthracene                    | mg/kg | <0.0040 | 0.0040 | 7023968 |
| Benzo(a)anthracene            | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(b&j)fluoranthene        | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(k)fluoranthene          | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(g,h,i)perylene          | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(c)phenanthrene          | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo(a)pyrene                | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Benzo[e]pyrene                | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Chrysene                      | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Dibenz(a,h)anthracene         | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluoranthene                  | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Fluorene                      | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Indeno(1,2,3-cd)pyrene        | mg/kg | <0.0050 | 0.0050 | 7023968 |
| 2-Methylnaphthalene           | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Naphthalene                   | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Phenanthrene                  | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Perylene                      | mg/kg | 0.0065  | 0.0050 | 7023968 |
| Pyrene                        | mg/kg | <0.0050 | 0.0050 | 7023968 |
| Quinoline                     | mg/kg | <0.010  | 0.010  | 7023968 |
| <b>Surrogate Recovery (%)</b> |       |         |        |         |
| D10-ANTHRACENE (sur.)         | %     | 98      | N/A    | 7023968 |
| D12-BENZO(A)PYRENE (sur.)     | %     | 79      | N/A    | 7023968 |
| D8-ACENAPHTHYLENE (sur.)      | %     | 99      | N/A    | 7023968 |
| TERPHENYL-D14 (sur.)          | %     | 117     | N/A    | 7023968 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
Report Date: 2013/07/31

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

|           |       |
|-----------|-------|
| Package 1 | 6.7°C |
| Package 2 | 6.3°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

**General Comments**

**Results relate only to the items tested.**



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report  
 Maxxam Job Number: EB363840

| QA/QC Batch        | QC Type                      | Parameter                    | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|--------------------|------------------------------|------------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7015681 KO         | Matrix Spike                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            | 99       | %     | 50 - 130  |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            | 104      | %     | 50 - 130  |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            | 105      | %     | 50 - 130  |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            | 103      | %     | 50 - 130  |          |
|                    | Spiked Blank                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            | 96       | %     | 50 - 130  |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  |            | 104      | %     | 70 - 130  |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  |            | 105      | %     | 70 - 130  |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  |            | 102      | %     | 70 - 130  |          |
|                    | Method Blank                 | O-TERPHENYL (sur.)           | 2013/07/28                  |            | 99       | %     | 50 - 130  |          |
|                    |                              | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  | <10        |          | mg/kg |           |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  | <50        |          | mg/kg |           |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  | <50        |          | mg/kg |           |          |
|                    | RPD                          | F2 (C10-C16 Hydrocarbons)    | 2013/07/28                  | NC         |          | %     | 50        |          |
|                    |                              | F3 (C16-C34 Hydrocarbons)    | 2013/07/28                  | NC         |          | %     | 50        |          |
|                    |                              | F4 (C34-C50 Hydrocarbons)    | 2013/07/28                  | NC         |          | %     | 50        |          |
|                    |                              |                              |                             |            |          |       |           |          |
| 7020731 PS7        | Matrix Spike                 | 1,4-Difluorobenzene (sur.)   | 2013/07/25                  |            | 115      | %     | 60 - 140  |          |
|                    |                              | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/25                  |            | 100      | %     | 60 - 140  |          |
|                    |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 124      | %     | 60 - 130  |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 94       | %     | 60 - 140  |          |
|                    |                              | Benzene                      | 2013/07/25                  |            | 105      | %     | 60 - 140  |          |
|                    |                              | Toluene                      | 2013/07/25                  |            | 107      | %     | 60 - 140  |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  |            | 107      | %     | 60 - 140  |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  |            | 112      | %     | 60 - 140  |          |
|                    |                              | o-Xylene                     | 2013/07/25                  |            | 103      | %     | 60 - 140  |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  |            | 103      | %     | 60 - 140  |          |
|                    |                              | Spiked Blank                 | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 98    | %         | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 97    | %         | 60 - 140 |
|                    | D10-ETHYLBENZENE (sur.)      |                              | 2013/07/25                  |            | 99       | %     | 60 - 130  |          |
|                    | D4-1,2-DICHLOROETHANE (sur.) |                              | 2013/07/25                  |            | 92       | %     | 60 - 140  |          |
|                    | Benzene                      |                              | 2013/07/25                  |            | 86       | %     | 60 - 140  |          |
|                    | Toluene                      |                              | 2013/07/25                  |            | 86       | %     | 60 - 140  |          |
|                    | Ethylbenzene                 |                              | 2013/07/25                  |            | 87       | %     | 60 - 140  |          |
|                    | m & p-Xylene                 |                              | 2013/07/25                  |            | 88       | %     | 60 - 140  |          |
|                    | o-Xylene                     |                              | 2013/07/25                  |            | 89       | %     | 60 - 140  |          |
|                    | (C6-C10)                     |                              | 2013/07/25                  |            | 101      | %     | 60 - 140  |          |
|                    | Method Blank                 |                              | 1,4-Difluorobenzene (sur.)  | 2013/07/25 |          | 98    | %         | 60 - 140 |
|                    |                              |                              | 4-BROMOFLUOROBENZENE (sur.) | 2013/07/25 |          | 104   | %         | 60 - 140 |
|                    |                              | D10-ETHYLBENZENE (sur.)      | 2013/07/25                  |            | 110      | %     | 60 - 130  |          |
|                    |                              | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/25                  |            | 86       | %     | 60 - 140  |          |
|                    |                              | Benzene                      | 2013/07/25                  | <0.0050    |          | mg/kg |           |          |
|                    |                              | Toluene                      | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  | <0.010     |          | mg/kg |           |          |
|                    |                              | Xylenes (Total)              | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|                    |                              | m & p-Xylene                 | 2013/07/25                  | <0.040     |          | mg/kg |           |          |
|                    |                              | o-Xylene                     | 2013/07/25                  | <0.020     |          | mg/kg |           |          |
|                    |                              | F1 (C6-C10) - BTEX           | 2013/07/25                  | <12        |          | mg/kg |           |          |
|                    |                              | (C6-C10)                     | 2013/07/25                  | <12        |          | mg/kg |           |          |
|                    | RPD                          | Benzene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|                    |                              | Toluene                      | 2013/07/25                  | NC         |          | %     | 50        |          |
|                    |                              | Ethylbenzene                 | 2013/07/25                  | NC         |          | %     | 50        |          |
|                    |                              | Xylenes (Total)              | 2013/07/25                  | NC         |          | %     | 50        |          |
| m & p-Xylene       |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |
| o-Xylene           |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |
| F1 (C6-C10) - BTEX |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |
| (C6-C10)           |                              | 2013/07/25                   | NC                          |            | %        | 50    |           |          |





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)  
 Maxxam Job Number: EB363840

| QA/QC Batch | QC Type                     | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |          |
|-------------|-----------------------------|---------------------------|-----------------------------|------------|----------|-------|-----------|----------|
| 7021306 JR1 | Matrix Spike                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 101      | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 114      | %     | 50 - 130  |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 50 - 130  |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 50 - 130  |          |
|             | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 95       | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 113      | %     | 70 - 130  |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 116      | %     | 70 - 130  |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 117      | %     | 70 - 130  |          |
|             | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 104      | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             | RPD                         | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             |                           |                             |            |          |       |           |          |
| 7022792 JR1 | Matrix Spike<br>[GZ9455-01] | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 87       | %     | 50 - 130  |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 89       | %     | 50 - 130  |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 88       | %     | 50 - 130  |          |
|             | Spiked Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 92       | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | 105      | %     | 70 - 130  |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | 103      | %     | 70 - 130  |          |
|             | Method Blank                | O-TERPHENYL (sur.)        | 2013/07/25                  |            | 94       | %     | 50 - 130  |          |
|             |                             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  | <10        |          | mg/kg |           |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  | <50        |          | mg/kg |           |          |
|             | RPD [GZ9454-01]             | F2 (C10-C16 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             | F3 (C16-C34 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             | F4 (C34-C50 Hydrocarbons) | 2013/07/25                  |            | NC       | %     | 50        |          |
|             |                             |                           |                             |            |          |       |           |          |
| 7023787 WAU | Matrix Spike                | Leachable Antimony (Sb)   | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|             |                             | Leachable Arsenic (As)    | 2013/07/26                  |            | 103      | %     | 75 - 125  |          |
|             |                             | Leachable Barium (Ba)     | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|             |                             | Leachable Beryllium (Be)  | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|             |                             | Leachable Boron (B)       | 2013/07/26                  |            | 105      | %     | 75 - 125  |          |
|             |                             | Leachable Cadmium (Cd)    | 2013/07/26                  |            | 104      | %     | 75 - 125  |          |
|             |                             | Leachable Chromium (Cr)   | 2013/07/26                  |            | 102      | %     | 75 - 125  |          |
|             |                             | Leachable Cobalt (Co)     | 2013/07/26                  |            | 99       | %     | 75 - 125  |          |
|             |                             | Leachable Copper (Cu)     | 2013/07/26                  |            | 96       | %     | 75 - 125  |          |
|             |                             | Leachable Iron (Fe)       | 2013/07/26                  |            | NC       | %     | 75 - 125  |          |
|             |                             | Leachable Lead (Pb)       | 2013/07/26                  |            | 93       | %     | 75 - 125  |          |
|             |                             | Leachable Mercury (Hg)    | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|             |                             | Leachable Nickel (Ni)     | 2013/07/26                  |            | 100      | %     | 75 - 125  |          |
|             |                             | Leachable Selenium (Se)   | 2013/07/26                  |            | 111      | %     | 75 - 125  |          |
|             |                             | Leachable Silver (Ag)     | 2013/07/26                  |            | 101      | %     | 75 - 125  |          |
|             |                             | Leachable Thallium (Tl)   | 2013/07/26                  |            | 106      | %     | 75 - 125  |          |
|             |                             | Leachable Uranium (U)     | 2013/07/26                  |            | 91       | %     | 75 - 125  |          |
|             |                             | Leachable Vanadium (V)    | 2013/07/26                  |            | 109      | %     | 75 - 125  |          |
|             |                             | Leachable Zinc (Zn)       | 2013/07/26                  |            | 97       | %     | 75 - 125  |          |
|             |                             | Leachable Zirconium (Zr)  | 2013/07/26                  |            | 116      | %     | 75 - 125  |          |
|             |                             | Spiked Blank              | Leachable Antimony (Sb)     | 2013/07/26 |          | 86    | %         | 80 - 120 |
|             |                             |                           | Leachable Arsenic (As)      | 2013/07/26 |          | 97    | %         | 80 - 120 |
|             |                             |                           | Leachable Barium (Ba)       | 2013/07/26 |          | 101   | %         | 80 - 120 |
|             |                             |                           | Leachable Beryllium (Be)    | 2013/07/26 |          | 99    | %         | 80 - 120 |



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| QA/QC Batch              | QC Type      | Parameter                | Date Analyzed<br>yyyy/mm/dd | Value                    | Recovery   | UNITS | QC Limits |      |  |
|--------------------------|--------------|--------------------------|-----------------------------|--------------------------|------------|-------|-----------|------|--|
| 7023787 WAU              | Spiked Blank | Leachable Boron (B)      | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                          |              | Leachable Cadmium (Cd)   | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Chromium (Cr)  | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Cobalt (Co)    | 2013/07/26                  |                          | 97         | %     | 80 - 120  |      |  |
|                          |              | Leachable Copper (Cu)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Iron (Fe)      | 2013/07/26                  |                          | 105        | %     | 80 - 120  |      |  |
|                          |              | Leachable Lead (Pb)      | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                          |              | Leachable Mercury (Hg)   | 2013/07/26                  |                          | 95         | %     | 80 - 120  |      |  |
|                          |              | Leachable Nickel (Ni)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Selenium (Se)  | 2013/07/26                  |                          | 104        | %     | 80 - 120  |      |  |
|                          |              | Leachable Silver (Ag)    | 2013/07/26                  |                          | 98         | %     | 80 - 120  |      |  |
|                          |              | Leachable Thallium (Tl)  | 2013/07/26                  |                          | 108        | %     | 80 - 120  |      |  |
|                          |              | Leachable Uranium (U)    | 2013/07/26                  |                          | 88         | %     | 80 - 120  |      |  |
|                          |              | Leachable Vanadium (V)   | 2013/07/26                  |                          | 101        | %     | 80 - 120  |      |  |
|                          |              | Leachable Zinc (Zn)      | 2013/07/26                  |                          | 99         | %     | 80 - 120  |      |  |
|                          |              | Leachable Zirconium (Zr) | 2013/07/26                  |                          | 103        | %     | 80 - 120  |      |  |
|                          |              | Method Blank             | Method Blank                | Leachable Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/L |  |
|                          |              |                          |                             | Leachable Arsenic (As)   | 2013/07/26 | <0.50 |           | mg/L |  |
|                          |              |                          |                             | Leachable Barium (Ba)    | 2013/07/26 | <1.0  |           | mg/L |  |
|                          |              |                          |                             | Leachable Beryllium (Be) | 2013/07/26 | <0.50 |           | mg/L |  |
| Leachable Boron (B)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Cadmium (Cd)   | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Chromium (Cr)  | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Cobalt (Co)    | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Copper (Cu)    | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Iron (Fe)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Lead (Pb)      | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Mercury (Hg)   | 2013/07/26   |                          |                             | <0.020                   |            | mg/L  |           |      |  |
| Leachable Nickel (Ni)    | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Selenium (Se)  | 2013/07/26   |                          |                             | <0.10                    |            | mg/L  |           |      |  |
| Leachable Silver (Ag)    | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Thallium (Tl)  | 2013/07/26   |                          |                             | <0.50                    |            | mg/L  |           |      |  |
| Leachable Uranium (U)    | 2013/07/26   |                          |                             | <0.20                    |            | mg/L  |           |      |  |
| Leachable Vanadium (V)   | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Zinc (Zn)      | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| Leachable Zirconium (Zr) | 2013/07/26   |                          |                             | <1.0                     |            | mg/L  |           |      |  |
| RPD                      | RPD          | Leachable Antimony (Sb)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Arsenic (As)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Barium (Ba)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Beryllium (Be) | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Boron (B)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Cadmium (Cd)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Chromium (Cr)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Cobalt (Co)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Copper (Cu)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Iron (Fe)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Lead (Pb)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Mercury (Hg)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Nickel (Ni)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Selenium (Se)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Silver (Ag)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Thallium (Tl)  | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Uranium (U)    | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Vanadium (V)   | 2013/07/26                  | NC                       |            | %     | 35        |      |  |
|                          |              | Leachable Zinc (Zn)      | 2013/07/26                  | NC                       |            | %     | 35        |      |  |



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| QA/QC Batch | QC Type      | Parameter                 | Date Analyzed<br>yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |
|-------------|--------------|---------------------------|-----------------------------|-------|----------|-------|-----------|
| 7023787 WAU | RPD          | Leachable Zirconium (Zr)  | 2013/07/26                  | NC    |          | %     | 35        |
| 7023968 YM1 | Matrix Spike | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 97       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 93       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 90       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 64       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 91       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 78       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 74       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 75       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 80       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 83       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 88       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 77       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 92       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 106      | %     | 50 - 130  |
|             | Spiked Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 86       | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 76       | %     | 50 - 130  |
|             |              | D8-ACENAPHTHYLENE (sur.)  | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | TERPHENYL-D14 (sur.)      | 2013/07/26                  |       | 95       | %     | 50 - 130  |
|             |              | Acenaphthene              | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acenaphthylene            | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Acridine                  | 2013/07/26                  |       | 58       | %     | 50 - 130  |
|             |              | Anthracene                | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(a)anthracene        | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Benzo(b&j)fluoranthene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Benzo(k)fluoranthene      | 2013/07/26                  |       | 81       | %     | 50 - 130  |
|             |              | Benzo(g,h,i)perylene      | 2013/07/26                  |       | 73       | %     | 50 - 130  |
|             |              | Benzo(c)phenanthrene      | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Benzo(a)pyrene            | 2013/07/26                  |       | 82       | %     | 50 - 130  |
|             |              | Benzo[e]pyrene            | 2013/07/26                  |       | 68       | %     | 50 - 130  |
|             |              | Chrysene                  | 2013/07/26                  |       | 70       | %     | 50 - 130  |
|             |              | Dibenz(a,h)anthracene     | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Fluoranthene              | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Fluorene                  | 2013/07/26                  |       | 85       | %     | 50 - 130  |
|             |              | Indeno(1,2,3-cd)pyrene    | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | 2-Methylnaphthalene       | 2013/07/26                  |       | 71       | %     | 50 - 130  |
|             |              | Naphthalene               | 2013/07/26                  |       | 72       | %     | 50 - 130  |
|             |              | Phenanthrene              | 2013/07/26                  |       | 79       | %     | 50 - 130  |
|             |              | Perylene                  | 2013/07/26                  |       | 69       | %     | 50 - 130  |
|             |              | Pyrene                    | 2013/07/26                  |       | 84       | %     | 50 - 130  |
|             |              | Quinoline                 | 2013/07/26                  |       | 109      | %     | 50 - 130  |
|             | Method Blank | D10-ANTHRACENE (sur.)     | 2013/07/26                  |       | 108      | %     | 50 - 130  |
|             |              | D12-BENZO(A)PYRENE (sur.) | 2013/07/26                  |       | 85       | %     | 50 - 130  |



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|-------------|-----------------|--------------------------|-----------------------------|---------|----------|-------|-----------|
| 7023968 YM1 | Method Blank    | D8-ACENAPHTHYLENE (sur.) | 2013/07/26                  |         | 99       | %     | 50 - 130  |
|             |                 | TERPHENYL-D14 (sur.)     | 2013/07/26                  |         | 118      | %     | 50 - 130  |
|             |                 | Acenaphthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acenaphthylene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Acridine                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                 | Anthracene               | 2013/07/26                  | <0.0040 |          | mg/kg |           |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Chrysene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluoranthene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Fluorene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Naphthalene              | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Phenanthrene             | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Perylene                 | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Pyrene                   | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                 | Quinoline                | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             | RPD             | Acenaphthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acenaphthylene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Acridine                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Anthracene               | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)anthracene       | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(b&j)fluoranthene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(k)fluoranthene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(g,h,i)perylene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(c)phenanthrene     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo(a)pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Benzo[e]pyrene           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Chrysene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Dibenz(a,h)anthracene    | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluoranthene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Fluorene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Indeno(1,2,3-cd)pyrene   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | 2-Methylnaphthalene      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Naphthalene              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Phenanthrene             | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Perylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Pyrene                   | 2013/07/26                  | NC      |          | %     | 50        |
|             |                 | Quinoline                | 2013/07/26                  | NC      |          | %     | 50        |
| 7024030 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD [GZ9437-01] | Soluble (CaCl2) pH       | 2013/07/26                  | 1.0     |          | %     | 5         |
| 7024049 SSF | QC Standard     | Soluble (CaCl2) pH       | 2013/07/26                  |         | 102      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (CaCl2) pH       | 2013/07/26                  |         | 100      | %     | 97 - 103  |
|             | RPD             | Soluble (CaCl2) pH       | 2013/07/26                  | 0.1     |          | %     | 5         |
| 7024196 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 99       | %     | 93 - 107  |
|             | RPD [GZ9455-01] | Saturation %             | 2013/07/26                  | 1.2     |          | %     | 12        |
| 7024253 LX  | QC Standard     | Saturation %             | 2013/07/26                  |         | 103      | %     | 93 - 107  |



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|-------------|-----------------------------|------------------------------|-----------------------------|---------|----------|-------|-----------|
| 7024253 LX  | RPD                         | Saturation %                 | 2013/07/26                  | 2.2     |          | %     | 12        |
| 7024356 NSE | Matrix Spike                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 102      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 101      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 105      | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 101      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 99       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 92       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 90       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 86       | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 96       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 85       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 84       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 87       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 86       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             | Method Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 109      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 88       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  | <0.0050 |          | mg/kg |           |
|             |                             | Toluene                      | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | Ethylbenzene                 | 2013/07/26                  | <0.010  |          | mg/kg |           |
|             |                             | Xylenes (Total)              | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | m & p-Xylene                 | 2013/07/26                  | <0.040  |          | mg/kg |           |
|             |                             | o-Xylene                     | 2013/07/26                  | <0.020  |          | mg/kg |           |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | <12     |          | mg/kg |           |
|             |                             | (C6-C10)                     | 2013/07/26                  | <12     |          | mg/kg |           |
|             | RPD                         | Benzene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Toluene                      | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Ethylbenzene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | Xylenes (Total)              | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | m & p-Xylene                 | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | o-Xylene                     | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | F1 (C6-C10) - BTEX           | 2013/07/26                  | NC      |          | %     | 50        |
|             |                             | (C6-C10)                     | 2013/07/26                  | NC      |          | %     | 50        |
| 7024383 CG7 | Matrix Spike<br>[GZ9453-01] | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 107      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 110      | %     | 60 - 130  |
|             |                             | D4-1,2-DICHLOROETHANE (sur.) | 2013/07/26                  |         | 89       | %     | 60 - 140  |
|             |                             | Benzene                      | 2013/07/26                  |         | 103      | %     | 60 - 140  |
|             |                             | Toluene                      | 2013/07/26                  |         | 98       | %     | 60 - 140  |
|             |                             | Ethylbenzene                 | 2013/07/26                  |         | 94       | %     | 60 - 140  |
|             |                             | m & p-Xylene                 | 2013/07/26                  |         | 97       | %     | 60 - 140  |
|             |                             | o-Xylene                     | 2013/07/26                  |         | 95       | %     | 60 - 140  |
|             |                             | (C6-C10)                     | 2013/07/26                  |         | 91       | %     | 60 - 140  |
|             | Spiked Blank                | 1,4-Difluorobenzene (sur.)   | 2013/07/26                  |         | 104      | %     | 60 - 140  |
|             |                             | 4-BROMOFLUOROBENZENE (sur.)  | 2013/07/26                  |         | 100      | %     | 60 - 140  |
|             |                             | D10-ETHYLBENZENE (sur.)      | 2013/07/26                  |         | 129      | %     | 60 - 130  |



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 Maxxam Job Number: EB363840

| QA/QC Batch                          | QC Type                      | Parameter                            | Date Analyzed<br>yyyy/mm/dd               | Value      | Recovery | UNITS | QC Limits |          |
|--------------------------------------|------------------------------|--------------------------------------|---|------------|----------|-------|-----------|----------|
| 7024383 CG7                          | Spiked Blank                 | D4-1,2-DICHLOROETHANE (sur.)         | 2013/07/26                                |            | 101      | %     | 60 - 140  |          |
|                                      |                              | Benzene                              | 2013/07/26                                |            | 102      | %     | 60 - 140  |          |
|                                      |                              | Toluene                              | 2013/07/26                                |            | 97       | %     | 60 - 140  |          |
|                                      |                              | Ethylbenzene                         | 2013/07/26                                |            | 96       | %     | 60 - 140  |          |
|                                      |                              | m & p-Xylene                         | 2013/07/26                                |            | 95       | %     | 60 - 140  |          |
|                                      |                              | o-Xylene                             | 2013/07/26                                |            | 94       | %     | 60 - 140  |          |
|                                      |                              | (C6-C10)                             | 2013/07/26                                |            | 92       | %     | 60 - 140  |          |
|                                      |                              | Method Blank                         | 1,4-Difluorobenzene (sur.)                | 2013/07/26 |          | 100   | %         | 60 - 140 |
|                                      |                              |                                      | 4-BROMOFLUOROBENZENE (sur.)               | 2013/07/26 |          | 101   | %         | 60 - 140 |
|                                      |                              |                                      | D10-ETHYLBENZENE (sur.)                   | 2013/07/26 |          | 122   | %         | 60 - 130 |
|                                      | D4-1,2-DICHLOROETHANE (sur.) |                                      | 2013/07/26                                |            | 105      | %     | 60 - 140  |          |
|                                      | Benzene                      |                                      | 2013/07/26                                | <0.0050    |          | mg/kg |           |          |
|                                      | Toluene                      |                                      | 2013/07/26                                | <0.020     |          | mg/kg |           |          |
|                                      | Ethylbenzene                 |                                      | 2013/07/26                                | <0.010     |          | mg/kg |           |          |
|                                      | Xylenes (Total)              |                                      | 2013/07/26                                | <0.040     |          | mg/kg |           |          |
|                                      | m & p-Xylene                 |                                      | 2013/07/26                                | <0.040     |          | mg/kg |           |          |
|                                      | o-Xylene                     |                                      | 2013/07/26                                | <0.020     |          | mg/kg |           |          |
|                                      | RPD [GZ9449-01]              | F1 (C6-C10) - BTEX                   | 2013/07/26                                | <12        |          | mg/kg |           |          |
|                                      |                              | (C6-C10)                             | 2013/07/26                                | <12        |          | mg/kg |           |          |
|                                      |                              | Benzene                              | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | Toluene                              | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | Ethylbenzene                         | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | Xylenes (Total)                      | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | m & p-Xylene                         | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | o-Xylene                             | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | F1 (C6-C10) - BTEX                   | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | (C6-C10)                             | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      | 7024500 NSE                  | Matrix Spike                         | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |          | 95    | %         | 70 - 130 |
|                                      |                              |                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26 |          | 99    | %         | 70 - 130 |
|                                      |                              |                                      | Leachable (ZH) D4-1,2-DICHLOROETHANE      | 2013/07/26 |          | 102   | %         | 70 - 130 |
| Leachable (ZH) Benzene               |                              |                                      | 2013/07/26                                |            | 84       | %     | 70 - 130  |          |
| Leachable (ZH) Toluene               |                              |                                      | 2013/07/26                                |            | 83       | %     | 70 - 130  |          |
| Leachable (ZH) Ethylbenzene          |                              |                                      | 2013/07/26                                |            | 81       | %     | 70 - 130  |          |
| Leachable (ZH) o-Xylene              |                              |                                      | 2013/07/26                                |            | 93       | %     | 70 - 130  |          |
| Leachable (ZH) m & p-Xylene          |                              |                                      | 2013/07/26                                |            | 91       | %     | 70 - 130  |          |
| Spiked Blank                         |                              |                                      | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |          | 90    | %         | 70 - 130 |
|                                      |                              |                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26 |          | 100   | %         | 70 - 130 |
|                                      |                              | Leachable (ZH) D4-1,2-DICHLOROETHANE | 2013/07/26                                |            | 95       | %     | 70 - 130  |          |
|                                      |                              | Leachable (ZH) Benzene               | 2013/07/26                                |            | 77       | %     | 70 - 130  |          |
|                                      |                              | Leachable (ZH) Toluene               | 2013/07/26                                |            | 82       | %     | 70 - 130  |          |
|                                      |                              | Leachable (ZH) Ethylbenzene          | 2013/07/26                                |            | 83       | %     | 70 - 130  |          |
|                                      |                              | Leachable (ZH) o-Xylene              | 2013/07/26                                |            | 91       | %     | 70 - 130  |          |
|                                      |                              | Leachable (ZH) m & p-Xylene          | 2013/07/26                                |            | 87       | %     | 70 - 130  |          |
|                                      |                              | Method Blank                         | Leachable (ZH) 1,4-Difluorobenzene (sur.) | 2013/07/26 |          | 99    | %         | 70 - 130 |
|                                      |                              |                                      | Leachable (ZH) 4-BROMOFLUOROBENZENE       | 2013/07/26 |          | 101   | %         | 70 - 130 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE |                              |                                      | 2013/07/26                                |            | 98       | %     | 70 - 130  |          |
| Leachable (ZH) Benzene               |                              |                                      | 2013/07/26                                | <10        |          | ug/L  |           |          |
| Leachable (ZH) Toluene               |                              |                                      | 2013/07/26                                | <10        |          | ug/L  |           |          |
| Leachable (ZH) Ethylbenzene          |                              |                                      | 2013/07/26                                | <10        |          | ug/L  |           |          |
| Leachable (ZH) o-Xylene              |                              |                                      | 2013/07/26                                | <10        |          | ug/L  |           |          |
| Leachable (ZH) m & p-Xylene          |                              |                                      | 2013/07/26                                | <20        |          | ug/L  |           |          |
| Leachable (ZH) Xylenes (Total)       |                              |                                      | 2013/07/26                                | <20        |          | ug/L  |           |          |
| RPD                                  |                              |                                      | Leachable (ZH) Benzene                    | 2013/07/26 | NC       |       | %         | 50       |
|                                      |                              | Leachable (ZH) Toluene               | 2013/07/26                                | NC         |          | %     | 50        |          |
|                                      |                              | Leachable (ZH) Ethylbenzene          | 2013/07/26                                | NC         |          | %     | 50        |          |





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 Maxxam Job Number: EB363840

| QA/QC Batch | QC Type         | Parameter                      | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|--------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7024500 NSE | RPD             | Leachable (ZH) o-Xylene        | 2013/07/26                  | NC     |          | %     | 50        |
|             |                 | Leachable (ZH) m & p-Xylene    | 2013/07/26                  | NC     |          | %     | 50        |
|             |                 | Leachable (ZH) Xylenes (Total) | 2013/07/26                  | NC     |          | %     | 50        |
| 7024503 SSF | QC Standard     | Soluble Conductivity           | 2013/07/26                  |        | 92       | %     | 75 - 125  |
|             | Spiked Blank    | Soluble Conductivity           | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity           | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD [GZ9455-01] | Soluble Conductivity           | 2013/07/26                  | 1.3    |          | %     | 35        |
| 7024522 KD5 | Matrix Spike    |                                |                             |        |          |       |           |
|             | [GZ9458-01]     | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 82       | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD [GZ9458-01] | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024524 KD5 | Matrix Spike    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 86       | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 99       | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD             | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024529 SSF | QC Standard     | Soluble (1:1) pH               | 2013/07/26                  |        | 100      | %     | 97 - 103  |
|             | Spiked Blank    | Soluble (1:1) pH               | 2013/07/26                  |        | 100      | %     | 99 - 101  |
|             | RPD             | Soluble (1:1) pH               | 2013/07/26                  | 2.2    |          | %     | 5         |
| 7024535 KD5 | Matrix Spike    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 0.0 (1)  | %     | 75 - 125  |
|             | Spiked Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  |        | 100      | %     | 90 - 110  |
|             | Method Blank    | Hex. Chromium (Cr 6+)          | 2013/07/26                  | <0.15  |          | mg/kg |           |
|             | RPD             | Hex. Chromium (Cr 6+)          | 2013/07/26                  | NC     |          | %     | 35        |
| 7024736 SF3 | Matrix Spike    | Total Antimony (Sb)            | 2013/07/26                  |        | 90       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)              | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)           | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)              | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)              | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)                | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Magnesium (Mg)           | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)          | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)              | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Silver (Ag)              | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)            | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Tin (Sn)                 | 2013/07/26                  |        | 101      | %     | 75 - 125  |
|             |                 | Total Uranium (U)              | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                 | Total Vanadium (V)             | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Zinc (Zn)                | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             | QC Standard     | Total Arsenic (As)             | 2013/07/26                  |        | 128      | %     | 50 - 150  |
|             |                 | Total Barium (Ba)              | 2013/07/26                  |        | 115      | %     | 69 - 131  |
|             |                 | Total Chromium (Cr)            | 2013/07/26                  |        | 108      | %     | 41 - 159  |
|             |                 | Total Cobalt (Co)              | 2013/07/26                  |        | 108      | %     | 75 - 125  |
|             |                 | Total Copper (Cu)              | 2013/07/26                  |        | 111      | %     | 73 - 127  |
|             |                 | Total Lead (Pb)                | 2013/07/26                  |        | 104      | %     | 54 - 146  |
|             |                 | Total Magnesium (Mg)           | 2013/07/26                  |        | 85       | %     | 69 - 131  |
|             |                 | Total Nickel (Ni)              | 2013/07/26                  |        | 116      | %     | 61 - 139  |
|             |                 | Total Vanadium (V)             | 2013/07/26                  |        | 125      | %     | 50 - 150  |
|             |                 | Total Zinc (Zn)                | 2013/07/26                  |        | 117      | %     | 72 - 128  |
|             | Spiked Blank    | Total Antimony (Sb)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)             | 2013/07/26                  |        | 95       | %     | 75 - 125  |



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 Maxxam Job Number: EB363840

| QA/QC<br>Batch | QC Type      | Parameter             | Date<br>Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|----------------|--------------|-----------------------|--------------------------------|--------|----------|-------|-----------|
| 7024736 SF3    | Spiked Blank | Total Barium (Ba)     | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Beryllium (Be)  | 2013/07/26                     |        | 100      | %     | 75 - 125  |
|                |              | Total Cadmium (Cd)    | 2013/07/26                     |        | 94       | %     | 75 - 125  |
|                |              | Total Chromium (Cr)   | 2013/07/26                     |        | 93       | %     | 75 - 125  |
|                |              | Total Cobalt (Co)     | 2013/07/26                     |        | 94       | %     | 75 - 125  |
|                |              | Total Copper (Cu)     | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Lead (Pb)       | 2013/07/26                     |        | 97       | %     | 75 - 125  |
|                |              | Total Magnesium (Mg)  | 2013/07/26                     |        | 89       | %     | 75 - 125  |
|                |              | Total Mercury (Hg)    | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Molybdenum (Mo) | 2013/07/26                     |        | 94       | %     | 75 - 125  |
|                |              | Total Nickel (Ni)     | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Selenium (Se)   | 2013/07/26                     |        | 98       | %     | 75 - 125  |
|                |              | Total Silver (Ag)     | 2013/07/26                     |        | 97       | %     | 75 - 125  |
|                |              | Total Thallium (Tl)   | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Tin (Sn)        | 2013/07/26                     |        | 97       | %     | 75 - 125  |
|                |              | Total Uranium (U)     | 2013/07/26                     |        | 102      | %     | 75 - 125  |
|                |              | Total Vanadium (V)    | 2013/07/26                     |        | 95       | %     | 75 - 125  |
|                |              | Total Zinc (Zn)       | 2013/07/26                     |        | 94       | %     | 75 - 125  |
|                | Method Blank | Total Antimony (Sb)   | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Arsenic (As)    | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Barium (Ba)     | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Beryllium (Be)  | 2013/07/26                     | <0.40  |          | mg/kg |           |
|                |              | Total Cadmium (Cd)    | 2013/07/26                     | <0.10  |          | mg/kg |           |
|                |              | Total Chromium (Cr)   | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Cobalt (Co)     | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Copper (Cu)     | 2013/07/26                     | <5.0   |          | mg/kg |           |
|                |              | Total Lead (Pb)       | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Magnesium (Mg)  | 2013/07/26                     | <100   |          | mg/kg |           |
|                |              | Total Mercury (Hg)    | 2013/07/26                     | <0.050 |          | mg/kg |           |
|                |              | Total Molybdenum (Mo) | 2013/07/26                     | <0.40  |          | mg/kg |           |
|                |              | Total Nickel (Ni)     | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Selenium (Se)   | 2013/07/26                     | <0.50  |          | mg/kg |           |
|                |              | Total Silver (Ag)     | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Thallium (Tl)   | 2013/07/26                     | <0.30  |          | mg/kg |           |
|                |              | Total Tin (Sn)        | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Uranium (U)     | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Vanadium (V)    | 2013/07/26                     | <1.0   |          | mg/kg |           |
|                |              | Total Zinc (Zn)       | 2013/07/26                     | <10    |          | mg/kg |           |
|                | RPD          | Total Antimony (Sb)   | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Arsenic (As)    | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Barium (Ba)     | 2013/07/26                     | 6.1    |          | %     | 35        |
|                |              | Total Beryllium (Be)  | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Cadmium (Cd)    | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Chromium (Cr)   | 2013/07/26                     | 7.2    |          | %     | 35        |
|                |              | Total Cobalt (Co)     | 2013/07/26                     | 6.1    |          | %     | 35        |
|                |              | Total Copper (Cu)     | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Lead (Pb)       | 2013/07/26                     | 5.6    |          | %     | 35        |
|                |              | Total Mercury (Hg)    | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Molybdenum (Mo) | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Nickel (Ni)     | 2013/07/26                     | 6.4    |          | %     | 35        |
|                |              | Total Selenium (Se)   | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Silver (Ag)     | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Thallium (Tl)   | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Tin (Sn)        | 2013/07/26                     | NC     |          | %     | 35        |
|                |              | Total Uranium (U)     | 2013/07/26                     | NC     |          | %     | 35        |



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Maxxam Job Number: EB363840

| QA/QC Batch | QC Type         | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7024736 SF3 | RPD             | Total Vanadium (V)            | 2013/07/26                  | 7.9    |          | %     | 35        |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  | NC     |          | %     | 35        |
| 7024996 ABH | Method Blank    | Moisture                      | 2013/07/26                  | <0.30  |          | %     |           |
|             | RPD [GZ9437-01] | Moisture                      | 2013/07/26                  | 5.6    |          | %     | 20        |
| 7025245 SSF | QC Standard     | Soluble Conductivity          | 2013/07/26                  |        | 97       | %     | 85 - 115  |
|             | Spiked Blank    | Soluble Conductivity          | 2013/07/26                  |        | 100      | %     | 90 - 110  |
|             | Method Blank    | Soluble Conductivity          | 2013/07/26                  | <0.020 |          | dS/m  |           |
|             | RPD             | Soluble Conductivity          | 2013/07/26                  | 7.8    |          | %     | 35        |
| 7025403 ABH | Method Blank    | Moisture                      | 2013/07/26                  | <0.30  |          | %     |           |
|             | RPD [GZ9457-01] | Moisture                      | 2013/07/26                  | 10.7   |          | %     | 20        |
| 7025702 NC3 | Matrix Spike    | Soluble (Hot water) Boron (B) | 2013/07/26                  |        | 102      | %     | 75 - 125  |
|             | Spiked Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  |        | 102      | %     | 75 - 125  |
|             | Method Blank    | Soluble (Hot water) Boron (B) | 2013/07/26                  | <0.10  |          | mg/kg |           |
|             | RPD             | Soluble (Hot water) Boron (B) | 2013/07/26                  | NC     |          | %     | 35        |
| 7026083 KD5 | Matrix Spike    |                               |                             |        |          |       |           |
|             | [GZ9455-01]     | Soluble Chloride (Cl)         | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             | QC Standard     | Soluble Chloride (Cl)         | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             | Spiked Blank    | Soluble Chloride (Cl)         | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             | Method Blank    | Soluble Chloride (Cl)         | 2013/07/26                  | <5.0   |          | mg/L  |           |
|             | RPD [GZ9455-01] | Soluble Chloride (Cl)         | 2013/07/26                  | NC     |          | %     | 35        |
| 7026100 WAU | Matrix Spike    | Total Antimony (Sb)           | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Magnesium (Mg)          | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             |                 | Total Mercury (Hg)            | 2013/07/26                  |        | 97       | %     | 75 - 125  |
|             |                 | Total Molybdenum (Mo)         | 2013/07/26                  |        | 98       | %     | 75 - 125  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Selenium (Se)           | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Silver (Ag)             | 2013/07/26                  |        | 101      | %     | 75 - 125  |
|             |                 | Total Thallium (Tl)           | 2013/07/26                  |        | 95       | %     | 75 - 125  |
|             |                 | Total Tin (Sn)                | 2013/07/26                  |        | 103      | %     | 75 - 125  |
|             |                 | Total Uranium (U)             | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |        | 100      | %     | 75 - 125  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |        | NC       | %     | 75 - 125  |
|             | QC Standard     | Total Arsenic (As)            | 2013/07/26                  |        | 131      | %     | 50 - 150  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | 116      | %     | 69 - 131  |
|             |                 | Total Chromium (Cr)           | 2013/07/26                  |        | 108      | %     | 41 - 159  |
|             |                 | Total Cobalt (Co)             | 2013/07/26                  |        | 114      | %     | 75 - 125  |
|             |                 | Total Copper (Cu)             | 2013/07/26                  |        | 116      | %     | 73 - 127  |
|             |                 | Total Lead (Pb)               | 2013/07/26                  |        | 110      | %     | 54 - 146  |
|             |                 | Total Magnesium (Mg)          | 2013/07/26                  |        | 109      | %     | 69 - 131  |
|             |                 | Total Nickel (Ni)             | 2013/07/26                  |        | 122      | %     | 61 - 139  |
|             |                 | Total Vanadium (V)            | 2013/07/26                  |        | 126      | %     | 50 - 150  |
|             |                 | Total Zinc (Zn)               | 2013/07/26                  |        | 124      | %     | 72 - 128  |
|             | Spiked Blank    | Total Antimony (Sb)           | 2013/07/26                  |        | 91       | %     | 75 - 125  |
|             |                 | Total Arsenic (As)            | 2013/07/26                  |        | 94       | %     | 75 - 125  |
|             |                 | Total Barium (Ba)             | 2013/07/26                  |        | 93       | %     | 75 - 125  |
|             |                 | Total Beryllium (Be)          | 2013/07/26                  |        | 96       | %     | 75 - 125  |
|             |                 | Total Cadmium (Cd)            | 2013/07/26                  |        | 93       | %     | 75 - 125  |



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| QA/QC Batch           | QC Type      | Parameter             | Date Analyzed<br>yyyy/mm/dd | Value                | Recovery   | UNITS | QC Limits |       |  |
|-----------------------|--------------|-----------------------|-----------------------------|----------------------|------------|-------|-----------|-------|--|
| 7026100 WAU           | Spiked Blank | Total Chromium (Cr)   | 2013/07/26                  |                      | 92         | %     | 75 - 125  |       |  |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  |                      | 93         | %     | 75 - 125  |       |  |
|                       |              | Total Copper (Cu)     | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Lead (Pb)       | 2013/07/26                  |                      | 96         | %     | 75 - 125  |       |  |
|                       |              | Total Magnesium (Mg)  | 2013/07/26                  |                      | 90         | %     | 75 - 125  |       |  |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  |                      | 93         | %     | 75 - 125  |       |  |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Selenium (Se)   | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |  |
|                       |              | Total Silver (Ag)     | 2013/07/26                  |                      | 96         | %     | 75 - 125  |       |  |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Tin (Sn)        | 2013/07/26                  |                      | 95         | %     | 75 - 125  |       |  |
|                       |              | Total Uranium (U)     | 2013/07/26                  |                      | 98         | %     | 75 - 125  |       |  |
|                       |              | Total Vanadium (V)    | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Total Zinc (Zn)       | 2013/07/26                  |                      | 94         | %     | 75 - 125  |       |  |
|                       |              | Method Blank          | Method Blank                | Total Antimony (Sb)  | 2013/07/26 | <1.0  |           | mg/kg |  |
|                       |              |                       |                             | Total Arsenic (As)   | 2013/07/26 | <1.0  |           | mg/kg |  |
|                       |              |                       |                             | Total Barium (Ba)    | 2013/07/26 | <10   |           | mg/kg |  |
|                       |              |                       |                             | Total Beryllium (Be) | 2013/07/26 | <0.40 |           | mg/kg |  |
|                       |              |                       |                             | Total Cadmium (Cd)   | 2013/07/26 | <0.10 |           | mg/kg |  |
| Total Chromium (Cr)   | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Cobalt (Co)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Copper (Cu)     | 2013/07/26   |                       |                             | <5.0                 |            | mg/kg |           |       |  |
| Total Lead (Pb)       | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Magnesium (Mg)  | 2013/07/26   |                       |                             | <100                 |            | mg/kg |           |       |  |
| Total Mercury (Hg)    | 2013/07/26   |                       |                             | <0.050               |            | mg/kg |           |       |  |
| Total Molybdenum (Mo) | 2013/07/26   |                       |                             | <0.40                |            | mg/kg |           |       |  |
| Total Nickel (Ni)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Selenium (Se)   | 2013/07/26   |                       |                             | <0.50                |            | mg/kg |           |       |  |
| Total Silver (Ag)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Thallium (Tl)   | 2013/07/26   |                       |                             | <0.30                |            | mg/kg |           |       |  |
| Total Tin (Sn)        | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Uranium (U)     | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Vanadium (V)    | 2013/07/26   |                       |                             | <1.0                 |            | mg/kg |           |       |  |
| Total Zinc (Zn)       | 2013/07/26   |                       |                             | <10                  |            | mg/kg |           |       |  |
| RPD                   | RPD          | Total Antimony (Sb)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Arsenic (As)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Barium (Ba)     | 2013/07/26                  | 4.4                  |            | %     | 35        |       |  |
|                       |              | Total Beryllium (Be)  | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Cadmium (Cd)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Chromium (Cr)   | 2013/07/26                  | 15.6                 |            | %     | 35        |       |  |
|                       |              | Total Cobalt (Co)     | 2013/07/26                  | 1.8                  |            | %     | 35        |       |  |
|                       |              | Total Copper (Cu)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Lead (Pb)       | 2013/07/26                  | 3.2                  |            | %     | 35        |       |  |
|                       |              | Total Magnesium (Mg)  | 2013/07/26                  | 1.2                  |            | %     | 35        |       |  |
|                       |              | Total Mercury (Hg)    | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Molybdenum (Mo) | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Nickel (Ni)     | 2013/07/26                  | 8.6                  |            | %     | 35        |       |  |
|                       |              | Total Selenium (Se)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Silver (Ag)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Thallium (Tl)   | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Tin (Sn)        | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Uranium (U)     | 2013/07/26                  | NC                   |            | %     | 35        |       |  |
|                       |              | Total Vanadium (V)    | 2013/07/26                  | 2.7                  |            | %     | 35        |       |  |
|                       |              | Total Zinc (Zn)       | 2013/07/26                  | NC                   |            | %     | 35        |       |  |



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| QA/QC Batch Num Init   | QC Type                  | Parameter                     | Date Analyzed yyyy/mm/dd | Value | Recovery | UNITS | QC Limits |    |
|------------------------|--------------------------|-------------------------------|--------------------------|-------|----------|-------|-----------|----|
| 7026327 JSM            | Matrix Spike [GZ9455-01] | Soluble Calcium (Ca)          | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 109      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26               |       | 87       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 85       | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 107      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Sulphate (SO4)        | 2013/07/26               |       | 91       | %     | 78 - 122  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | 102      | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 103      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Potassium (K)         | 2013/07/26               |       | 99       | %     | 75 - 125  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | <1.5     |       | mg/L      |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | <1.0     |       | mg/L      |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | <2.5     |       | mg/L      |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | <1.3     |       | mg/L      |    |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD [GZ9455-01]          | Soluble Calcium (Ca)          | 2013/07/26               |       | 13.2     |       | %         | 35 |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | NC       |       | %         | 35 |
| Soluble Sodium (Na)    |                          | 2013/07/26                    |                          | 3.5   |          | %     | 35        |    |
| Soluble Potassium (K)  |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |
| Soluble Sulphate (SO4) |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |
|                        |                          |                               |                          |       |          |       |           |    |
| 7026562 KD5            | Matrix Spike             | Soluble Chloride (Cl)         | 2013/07/26               |       | 102      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Chloride (Cl)         | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Chloride (Cl)         | 2013/07/26               |       | 100      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Chloride (Cl)         | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD                      | Soluble Chloride (Cl)         | 2013/07/26               |       | NC       |       | %         | 35 |
| 7026671 NC3            | Matrix Spike             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | 103      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | 104      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble (Hot water) Boron (B) | 2013/07/26               |       | <0.10    |       | mg/kg     |    |
|                        | RPD                      | Soluble (Hot water) Boron (B) | 2013/07/26               |       | NC       |       | %         | 35 |
| 7026924 JSM            | Matrix Spike             | Soluble Calcium (Ca)          | 2013/07/26               |       | 97       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 106      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        | QC Standard              | Soluble Calcium (Ca)          | 2013/07/26               |       | 95       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 108      | %     | 75 - 125  |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | 115      | %     | 75 - 125  |    |
|                        | Spiked Blank             | Soluble Sulphate (SO4)        | 2013/07/26               |       | 98       | %     | 78 - 122  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | 96       | %     | 75 - 125  |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | 106      | %     | 75 - 125  |    |
|                        | Method Blank             | Soluble Potassium (K)         | 2013/07/26               |       | 101      | %     | 75 - 125  |    |
|                        |                          | Soluble Calcium (Ca)          | 2013/07/26               |       | <1.5     |       | mg/L      |    |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | <1.0     |       | mg/L      |    |
|                        |                          | Soluble Sodium (Na)           | 2013/07/26               |       | <2.5     |       | mg/L      |    |
|                        |                          | Soluble Potassium (K)         | 2013/07/26               |       | <1.3     |       | mg/L      |    |
|                        |                          | Soluble Sulphate (SO4)        | 2013/07/26               |       | <5.0     |       | mg/L      |    |
|                        | RPD                      | Soluble Calcium (Ca)          | 2013/07/26               |       | 13.5     |       | %         | 35 |
|                        |                          | Soluble Magnesium (Mg)        | 2013/07/26               |       | NC       |       | %         | 35 |
| Soluble Sodium (Na)    |                          | 2013/07/26                    |                          | 0.06  |          | %     | 35        |    |
| Soluble Potassium (K)  |                          | 2013/07/26                    |                          | NC    |          | %     | 35        |    |





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| QA/QC Batch | QC Type      | Parameter              | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------|------------------------|-----------------------------|--------|----------|-------|-----------|
| 7026924 JSM | RPD          | Soluble Sulphate (SO4) | 2013/07/26                  | 3.0    |          | %     | 35        |
| 7027318 LX  | QC Standard  | Saturation %           | 2013/07/27                  |        | 105      | %     | 93 - 107  |
|             | RPD          | Saturation %           | 2013/07/27                  | 1.2    |          | %     | 12        |
| 7027431 AD3 | QC Standard  | Soluble Conductivity   | 2013/07/27                  |        | 98       | %     | 85 - 115  |
|             | Spiked Blank | Soluble Conductivity   | 2013/07/27                  |        | 100      | %     | 90 - 110  |
|             | Method Blank | Soluble Conductivity   | 2013/07/27                  | <0.020 |          | dS/m  |           |
|             | RPD          | Soluble Conductivity   | 2013/07/27                  | 4.2    |          | %     | 35        |
| 7027480 NM5 | Method Blank | Moisture               | 2013/07/27                  | <0.30  |          | %     |           |
|             | RPD          | Moisture               | 2013/07/27                  | 2.2    |          | %     | 20        |
| 7027493 WAU | Matrix Spike | Total Antimony (Sb)    | 2013/07/27                  |        | 85       | %     | 75 - 125  |
|             |              | Total Arsenic (As)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             |              | Total Beryllium (Be)   | 2013/07/27                  |        | 97       | %     | 75 - 125  |
|             |              | Total Cadmium (Cd)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 89       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 90       | %     | 75 - 125  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 87       | %     | 75 - 125  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             |              | Total Mercury (Hg)     | 2013/07/27                  |        | 89       | %     | 75 - 125  |
|             |              | Total Molybdenum (Mo)  | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Selenium (Se)    | 2013/07/27                  |        | 88       | %     | 75 - 125  |
|             |              | Total Silver (Ag)      | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Thallium (Tl)    | 2013/07/27                  |        | 84       | %     | 75 - 125  |
|             |              | Total Tin (Sn)         | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Uranium (U)      | 2013/07/27                  |        | 83       | %     | 75 - 125  |
|             |              | Total Vanadium (V)     | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Zinc (Zn)        | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             | QC Standard  | Total Arsenic (As)     | 2013/07/27                  |        | 112      | %     | 50 - 150  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | 96       | %     | 69 - 131  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 90       | %     | 41 - 159  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 96       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 100      | %     | 73 - 127  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 96       | %     | 54 - 146  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | 83       | %     | 69 - 131  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 104      | %     | 61 - 139  |
|             |              | Total Vanadium (V)     | 2013/07/27                  |        | 104      | %     | 50 - 150  |
|             |              | Total Zinc (Zn)        | 2013/07/27                  |        | 103      | %     | 72 - 128  |
|             | Spiked Blank | Total Antimony (Sb)    | 2013/07/27                  |        | 92       | %     | 75 - 125  |
|             |              | Total Arsenic (As)     | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Barium (Ba)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Beryllium (Be)   | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Cadmium (Cd)     | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Chromium (Cr)    | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Cobalt (Co)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Copper (Cu)      | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Lead (Pb)        | 2013/07/27                  |        | 91       | %     | 75 - 125  |
|             |              | Total Magnesium (Mg)   | 2013/07/27                  |        | 86       | %     | 75 - 125  |
|             |              | Total Mercury (Hg)     | 2013/07/27                  |        | 87       | %     | 75 - 125  |
|             |              | Total Molybdenum (Mo)  | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Nickel (Ni)      | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Selenium (Se)    | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Silver (Ag)      | 2013/07/27                  |        | 93       | %     | 75 - 125  |
|             |              | Total Thallium (Tl)    | 2013/07/27                  |        | 86       | %     | 75 - 125  |





KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch | QC Type      | Parameter                     | Date Analyzed<br>yyyy/mm/dd | Value  | Recovery | UNITS | QC Limits |
|-------------|--------------|-------------------------------|-----------------------------|--------|----------|-------|-----------|
| 7027493 WAU | Spiked Blank | Total Tin (Sn)                | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             |              | Total Uranium (U)             | 2013/07/27                  |        | 86       | %     | 75 - 125  |
|             |              | Total Vanadium (V)            | 2013/07/27                  |        | 95       | %     | 75 - 125  |
|             |              | Total Zinc (Zn)               | 2013/07/27                  |        | 94       | %     | 75 - 125  |
|             | Method Blank | Total Antimony (Sb)           | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Arsenic (As)            | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Barium (Ba)             | 2013/07/27                  | <10    |          | mg/kg |           |
|             |              | Total Beryllium (Be)          | 2013/07/27                  | <0.40  |          | mg/kg |           |
|             |              | Total Cadmium (Cd)            | 2013/07/27                  | <0.10  |          | mg/kg |           |
|             |              | Total Chromium (Cr)           | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Cobalt (Co)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Copper (Cu)             | 2013/07/27                  | <5.0   |          | mg/kg |           |
|             |              | Total Lead (Pb)               | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Magnesium (Mg)          | 2013/07/27                  | <100   |          | mg/kg |           |
|             |              | Total Mercury (Hg)            | 2013/07/27                  | <0.050 |          | mg/kg |           |
|             |              | Total Molybdenum (Mo)         | 2013/07/27                  | <0.40  |          | mg/kg |           |
|             |              | Total Nickel (Ni)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Selenium (Se)           | 2013/07/27                  | <0.50  |          | mg/kg |           |
|             |              | Total Silver (Ag)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Thallium (Tl)           | 2013/07/27                  | <0.30  |          | mg/kg |           |
|             |              | Total Tin (Sn)                | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Uranium (U)             | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Vanadium (V)            | 2013/07/27                  | <1.0   |          | mg/kg |           |
|             |              | Total Zinc (Zn)               | 2013/07/27                  | <10    |          | mg/kg |           |
|             | RPD          | Total Antimony (Sb)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Arsenic (As)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Barium (Ba)             | 2013/07/27                  | 7.3    |          | %     | 35        |
|             |              | Total Beryllium (Be)          | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Cadmium (Cd)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Chromium (Cr)           | 2013/07/27                  | 0.6    |          | %     | 35        |
|             |              | Total Cobalt (Co)             | 2013/07/27                  | 11.3   |          | %     | 35        |
|             |              | Total Copper (Cu)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Lead (Pb)               | 2013/07/27                  | 4.1    |          | %     | 35        |
|             |              | Total Mercury (Hg)            | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Molybdenum (Mo)         | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Nickel (Ni)             | 2013/07/27                  | 2.4    |          | %     | 35        |
|             |              | Total Selenium (Se)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Silver (Ag)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Thallium (Tl)           | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Tin (Sn)                | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Uranium (U)             | 2013/07/27                  | NC     |          | %     | 35        |
|             |              | Total Vanadium (V)            | 2013/07/27                  | 0.7    |          | %     | 35        |
|             |              | Total Zinc (Zn)               | 2013/07/27                  | NC     |          | %     | 35        |
| 7027624 AD3 | QC Standard  | Soluble (CaCl2) pH            | 2013/07/27                  |        | 101      | %     | 97 - 103  |
|             | Spiked Blank | Soluble (CaCl2) pH            | 2013/07/27                  |        | 100      | %     | 97 - 103  |
|             | RPD          | Soluble (CaCl2) pH            | 2013/07/27                  | 0.1    |          | %     | 5         |
| 7027660 JSM | Matrix Spike | Soluble (Hot water) Boron (B) | 2013/07/27                  |        | NC       | %     | 75 - 125  |
|             | Spiked Blank | Soluble (Hot water) Boron (B) | 2013/07/27                  |        | 96       | %     | 75 - 125  |
|             | Method Blank | Soluble (Hot water) Boron (B) | 2013/07/27                  | <0.10  |          | mg/kg |           |
|             | RPD          | Soluble (Hot water) Boron (B) | 2013/07/27                  | 0.4    |          | %     | 35        |
| 7027842 JSM | Matrix Spike | Soluble Sodium (Na)           | 2013/07/27                  |        | 109      | %     | 75 - 125  |
|             | QC Standard  | Soluble Sodium (Na)           | 2013/07/27                  |        | 110      | %     | 75 - 125  |
|             | Spiked Blank | Soluble Sodium (Na)           | 2013/07/27                  |        | 110      | %     | 75 - 125  |
|             | Method Blank | Soluble Sodium (Na)           | 2013/07/27                  | <2.5   |          | mg/L  |           |
|             | RPD          | Soluble Sodium (Na)           | 2013/07/27                  | 0.8    |          | %     | 35        |



KLOHN CRIPPEN BERGER LTD  
 Attention: NICOLE WILLS  
 Client Project #: A04012A05  
 P.O. #:  
 Site Location: CAMP FAREWELL

Quality Assurance Report (Continued)

Maxxam Job Number: EB363840

| QA/QC Batch           | QC Type      | Parameter               | Date Analyzed<br>yyyy/mm/dd | Value      | Recovery | UNITS | QC Limits |    |
|-----------------------|--------------|-------------------------|-----------------------------|------------|----------|-------|-----------|----|
| 7027970 MA4           | QC Standard  | Soluble Conductivity    | 2013/07/28                  |            | 87       | %     | 85 - 115  |    |
|                       | Spiked Blank | Soluble Conductivity    | 2013/07/28                  |            | 101      | %     | 90 - 110  |    |
|                       | Method Blank | Soluble Conductivity    | 2013/07/28                  | <0.020     |          | dS/m  |           |    |
|                       | RPD          | Soluble Conductivity    | 2013/07/28                  | 2.7        |          | %     | 35        |    |
| 7028052 LCA           | Matrix Spike | Soluble Chloride (Cl)   | 2013/07/28                  |            | 99       | %     | 75 - 125  |    |
|                       | QC Standard  | Soluble Chloride (Cl)   | 2013/07/28                  |            | 90       | %     | 75 - 125  |    |
|                       | Spiked Blank | Soluble Chloride (Cl)   | 2013/07/28                  |            | 101      | %     | 75 - 125  |    |
|                       | Method Blank | Soluble Chloride (Cl)   | 2013/07/28                  | <5.0       |          | mg/L  |           |    |
|                       | RPD          | Soluble Chloride (Cl)   | 2013/07/28                  | NC         |          | %     | 35        |    |
| 7028146 JHC           | Matrix Spike | Soluble Calcium (Ca)    | 2013/07/28                  |            | 100      | %     | 75 - 125  |    |
|                       |              | Soluble Magnesium (Mg)  | 2013/07/28                  |            | 103      | %     | 75 - 125  |    |
|                       |              | Soluble Sodium (Na)     | 2013/07/28                  |            | 103      | %     | 75 - 125  |    |
|                       |              | Soluble Potassium (K)   | 2013/07/28                  |            | 103      | %     | 75 - 125  |    |
|                       | QC Standard  | Soluble Calcium (Ca)    | 2013/07/28                  |            | 80       | %     | 75 - 125  |    |
|                       |              | Soluble Magnesium (Mg)  | 2013/07/28                  |            | 81       | %     | 75 - 125  |    |
|                       |              | Soluble Sodium (Na)     | 2013/07/28                  |            | 96       | %     | 75 - 125  |    |
|                       |              | Soluble Potassium (K)   | 2013/07/28                  |            | 109      | %     | 75 - 125  |    |
|                       | Spiked Blank | Soluble Sulphate (SO4)  | 2013/07/28                  |            | 80       | %     | 78 - 122  |    |
|                       |              | Soluble Calcium (Ca)    | 2013/07/28                  |            | 99       | %     | 75 - 125  |    |
|                       |              | Soluble Magnesium (Mg)  | 2013/07/28                  |            | 101      | %     | 75 - 125  |    |
|                       |              | Soluble Sodium (Na)     | 2013/07/28                  |            | 100      | %     | 75 - 125  |    |
|                       | Method Blank | Soluble Potassium (K)   | 2013/07/28                  |            | 101      | %     | 75 - 125  |    |
|                       |              | Soluble Calcium (Ca)    | 2013/07/28                  | <1.5       |          | mg/L  |           |    |
|                       |              | Soluble Magnesium (Mg)  | 2013/07/28                  | <1.0       |          | mg/L  |           |    |
|                       |              | Soluble Sodium (Na)     | 2013/07/28                  | <2.5       |          | mg/L  |           |    |
|                       |              | Soluble Potassium (K)   | 2013/07/28                  | <1.3       |          | mg/L  |           |    |
|                       |              | Soluble Sulphate (SO4)  | 2013/07/28                  | <5.0       |          | mg/L  |           |    |
|                       |              | RPD                     | Soluble Calcium (Ca)        | 2013/07/28 | 21.3     |       | %         | 35 |
|                       |              |                         | Soluble Magnesium (Mg)      | 2013/07/28 | NC       |       | %         | 35 |
| Soluble Sodium (Na)   | 2013/07/28   |                         | 12.9                        |            | %        | 35    |           |    |
| Soluble Potassium (K) | 2013/07/28   |                         | NC                          |            | %        | 35    |           |    |
| 7037181 JHC           | Matrix Spike | Soluble Sulphate (SO4)  | 2013/07/28                  | 15.3       |          | %     | 35        |    |
|                       |              | Extractable Barium (Ba) | 2013/07/31                  |            | NC       | %     | 75 - 125  |    |
|                       | Spiked Blank | Extractable Barium (Ba) | 2013/07/31                  |            | 89       | %     | 75 - 125  |    |
|                       | Method Blank | Extractable Barium (Ba) | 2013/07/31                  | <1.0       |          | mg/kg |           |    |
|                       | RPD          | Extractable Barium (Ba) | 2013/07/31                  | 0.5        |          | %     | 35        |    |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.  
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.  
 QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.  
 Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.  
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.  
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.  
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.  
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.  
 ( 1 ) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Validation Signature Page

Maxxam Job #: B363840

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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Stephanie Gilbert, Senior Analyst



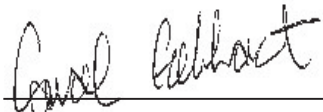
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Daniel Reslan, Volatiles Supervisor



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Karla Offord, Supervisor, Extractable Hydrocarbons



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Carol Gebhart, Senior Analyst



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Anna Koksharova, Senior Analyst

## Validation Signature Page

**Maxxam Job #: B363840**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to be "Michael Chae".

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Michael Chae, Ph.D, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.















Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/08/03**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B363840**  
**Received: 2013/07/25, 10:23**

Sample Matrix: Soil  
 # Samples Received: 27

| Analyses                               | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method            | Analytical Method |
|--|----------|-------------------|------------------|------------------------------|-------------------|
| Extractable Barium                     | 8        | 2013/07/31        | 2013/07/31       | AB SOP-00042                 | EPA 200.7         |
| Barium on ICP using Fusion Extraction  | 8        | 2013/08/02        | 2013/08/02       | AB SOP-00042                 | EPA 200.7         |
| Boron (Hot Water Soluble)              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00042                 | EPA 200.7         |
| Boron (Hot Water Soluble)              | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00042                 | EPA 200.7         |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 26       | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | CCME, EPA 8260    |
| BTEX/F1 by HS GC/MS (MeOH extract)     | 1        | 2013/07/26        | 2013/07/27       | AB SOP-00039                 | CCME, EPA 8260    |
| BTEX in Leachates by HS GC/MS          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00039                 | EPA 1311/8260C    |
| Cation/EC Ratio                        | 26       | N/A               | 2013/07/26       |                              | CALCULATION       |
| Cation/EC Ratio                        | 1        | N/A               | 2013/07/27       |                              | CALCULATION       |
| Chloride (Soluble)                     | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00020                 | SSMA 4500 CL-E    |
| Chloride (Soluble)                     | 1        | 2013/07/28        | 2013/07/28       | AB SOP-00020                 | SSMA 4500 CL-E    |
| Hexavalent Chromium                    | 26       | 2013/07/25        | 2013/07/26       | EENV SOP-00131               | SM 3500-Cr B      |
| Hexavalent Chromium                    | 1        | 2013/07/26        | 2013/07/26       | EENV SOP-00131               | SM 3500-Cr B      |
| Conductivity @25C (Soluble)            | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00004                 | SSMA 15.3         |
| Conductivity @25C (Soluble)            | 1        | 2013/07/28        | 2013/07/28       | AB SOP-00004                 | SSMA 15.3         |
| CCME Hydrocarbons (F2-F4 in soil)      | 26       | 2013/07/25        | 2013/07/25       | AB SOP-00040                 | CCME PHC-CWS      |
| CCME Hydrocarbons (F2-F4 in soil)      | 1        | 2013/07/26        | 2013/07/28       | AB SOP-00040<br>AB SOP-00036 | CCME PHC-CWS      |
| Flash Point                            | 1        | N/A               | 2013/07/26       | AB SOP-00062                 | ASTM D3828-12 A   |
| ICPMS Metals on TCLP Leachate          | 1        | 2013/07/25        | 2013/07/26       | AB SOP-00043                 | EPA 200.8         |
| Elements by ICPMS - Soils              | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00043                 | EPA 200.8         |
| Elements by ICPMS - Soils              | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00043                 | EPA 200.8         |
| Ion Balance                            | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SM 1030E          |
| Ion Balance                            | 1        | N/A               | 2013/07/27       | AB WI-00065                  | SM 1030E          |
| Sum of Cations, Anions                 | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SM 1030E          |
| Sum of Cations, Anions                 | 1        | N/A               | 2013/07/27       | AB WI-00065                  | SM 1030E          |
| Moisture                               | 26       | N/A               | 2013/07/26       | AB SOP-00002                 | CCME PHC-CWS      |
| Moisture                               | 1        | N/A               | 2013/07/27       | AB SOP-00002                 | CCME PHC-CWS      |
| Benzo[a]pyrene Equivalency             | 1        | N/A               | 2013/07/27       | AB SOP-00003                 | EPA 8270D         |
| PAH in Soil by GC/MS                   | 1        | 2013/07/25        | 2013/07/27       | AB SOP-00003<br>AB SOP-00036 | EPA 3540C/8270D   |
| Free Liquid (Paint filter)             | 1        | N/A               | 2013/07/26       | AB SOP-00047                 | EPA SW846/9095B   |
| pH @25C (1:2 Calcium Chloride Extract) | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00006                 | SSMA 16.3         |
| pH @25C (1:2 Calcium Chloride Extract) | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00006                 | SSMA 16.3         |
| pH @25C (1:1 extract, solid waste)     | 1        | 2013/07/26        | 2013/07/26       | AB SOP-00006                 | SSMA 16.2         |
| Sodium Adsorption Ratio                | 26       | N/A               | 2013/07/26       | AB WI-00065                  | SSMA 15.4.4       |



Your Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Your C.O.C. #: A134527, A134528, A134516

**Attention: NICOLE WILLS**

KLOHN CRIPPEN BERGER LTD  
 500-2618  
 HOPEWELL PLACE NE  
 CALGARY, AB  
 CANADA T1Y 7J7

**Report Date: 2013/08/03**

This report supersedes all previous reports with the same Maxxam job number

**CERTIFICATE OF ANALYSIS**

-2-

Sample Matrix: Soil  
 # Samples Received: 27

| Analyses                           | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|------------------------------------|----------|-------------------|------------------|-------------------|-------------------|
| Sodium Adsorption Ratio            | 1        | N/A               | 2013/07/27       | AB WI-00065       | SSMA 15.4.4       |
| Ca,Mg,Na,K,SO4 (Soluble)           | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00042      | EPA 200.7         |
| Ca,Mg,Na,K,SO4 (Soluble)           | 1        | 2013/07/28        | 2013/07/28       | AB SOP-00042      | EPA 200.7         |
| Soluble Paste                      | 26       | 2013/07/26        | 2013/07/26       | AB SOP-00033      | SSMA 15.2         |
| Soluble Paste                      | 1        | 2013/07/27        | 2013/07/27       | AB SOP-00033      | SSMA 15.2         |
| Soluble Ions Calculation           | 27       | N/A               | 2013/07/26       |                   | CALCULATION       |
| Theoretical Gypsum Requirement (1) | 26       | N/A               | 2013/07/26       | CAL WI-00087      | CJSS 79:449-455   |
| Theoretical Gypsum Requirement (1) | 1        | N/A               | 2013/07/27       | CAL WI-00087      | CJSS 79:449-455   |

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Units for TGR have changed from tons/acre to tonnes/ha

**Encryption Key**

 Jennifer Thompson  
 04 Aug 2013 12:35:39 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Tanya Eugene, M.Sc., Project Manager  
 Email: TEugine@maxxam.ca  
 Phone# (780) 577-7144

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2





Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                     |             |                         |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9437                  | GZ9438      | GZ9439      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23              | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527                 | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>TP#3</b> | <b>TP#4</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |         |         |     |         |         |        |         |
|-------------------------------|-------|---------|---------|-----|---------|---------|--------|---------|
| <b>Physical Properties</b>    |       |         |         |     |         |         |        |         |
| Moisture                      | %     | 5.3     | 3.5     | 3.7 | 3.7     | 4.1     | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |     |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | 46      | N/A | 22      | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 58      | <50     | N/A | <50     | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | N/A | <50     | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | N/A | Yes     | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |     |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | N/A | <0.0050 | <0.0050 | 0.0050 | 7024356 |
| Toluene                       | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | N/A | <0.010  | <0.010  | 0.010  | 7024356 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | N/A | <0.040  | <0.040  | 0.040  | 7024356 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | N/A | <0.020  | <0.020  | 0.020  | 7024356 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| (C6-C10)                      | mg/kg | <12     | <12     | N/A | <12     | <12     | 12     | 7024356 |
| <b>Surrogate Recovery (%)</b> |       |         |         |     |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 99      | N/A | 99      | 101     | N/A    | 7024356 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 97      | 97      | N/A | 99      | 97      | N/A    | 7024356 |
| D10-ETHYLBENZENE (sur.)       | %     | 90      | 93      | N/A | 91      | 90      | N/A    | 7024356 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 100     | 99      | N/A | 97      | 100     | N/A    | 7024356 |
| O-TERPHENYL (sur.)            | %     | 104     | 104     | N/A | 105     | 96      | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |             |              |                 |              |                 |            |                 |
|---------------|--------------|-------------|--------------|-----------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9440      | GZ9441       |                 | GZ9442       | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/23  | 2013/07/23   |                 | 2013/07/23   | 2013/07/20      |            |                 |
| COC Number    |              | A134527     | A134527      |                 | A134527      | A134527         |            |                 |
|               | <b>UNITS</b> | <b>TP#5</b> | <b>TP#17</b> | <b>QC Batch</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |       |        |         |
|-------------------------------|-------|---------|---------|---------|---------|-------|--------|---------|
| Moisture                      | %     | 3.1     | 2.4     | 7024996 | 5.0     | 22    | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | 7022792 | 260     | 860   | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 61      | <50     | 7022792 | 410     | 790   | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | 7022792 | <50     | 200   | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | 7022792 | Yes     | Yes   | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |         |       |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | 7024356 | <0.0050 | 0.059 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 0.83  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | 7024356 | <0.010  | 0.38  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 4.5   | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | 7024356 | <0.040  | 2.9   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | 7024356 | <0.020  | 1.7   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | 7024356 | <12     | 100   | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | 7024356 | <12     | 110   | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 107     | 112     | 7024356 | 102     | 114   | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 97      | 7024356 | 100     | 78    | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 92      | 106     | 7024356 | 120     | 124   | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 102     | 100     | 7024356 | 106     | 110   | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | 98      | 7022792 | 106     | 111   | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                  |                  |                  |                  |                  |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9444           | GZ9445           | GZ9446           | GZ9447           | GZ9448           |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134527          | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-ILB</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>QC Batch</b> |

|                               |       |       |       |         |        |         |        |         |
|-------------------------------|-------|-------|-------|---------|--------|---------|--------|---------|
| <b>Physical Properties</b>    |       |       |       |         |        |         |        |         |
| Moisture                      | %     | 13    | 17    | 8.3     | 6.6    | 13      | 0.30   | 7024996 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |       |       |         |        |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | 530   | 2500  | 400     | 810    | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 97    | 970   | <50     | 100    | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50   | 380   | <50     | <50    | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes   | Yes   | Yes     | Yes    | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |       |       |         |        |         |        |         |
| Benzene                       | mg/kg | 0.018 | 0.069 | <0.0050 | 0.0090 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | 0.12  | 1.2   | 0.026   | 0.062  | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | 0.12  | 1.4   | 0.022   | 0.026  | 0.014   | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | 3.9   | 22    | 0.27    | 0.33   | 0.15    | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | 0.95  | 13    | 0.083   | 0.22   | 0.095   | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | 3.0   | 9.1   | 0.19    | 0.11   | 0.054   | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | 200   | 370   | 380     | 13     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | 210   | 400   | 380     | 14     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |       |       |         |        |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108   | 110   | 106     | 102    | 107     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 80    | 78    | 98      | 91     | 89      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 127   | 121   | 176 (1) | 120    | 120     | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 109   | 105   | 106     | 100    | 103     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 100   | 114   | 99      | 100    | 101     | N/A    | 7022792 |

N/A = Not Applicable

RDL = Reportable Detection Limit

( 1 ) Surrogate recovery exceeds acceptance criteria due to matrix interference. Reanalysis yields similar results.





Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9449           | GZ9449                   | GZ9453               | GZ9454               | GZ9454                       |            |                 |
|---------------|--------------|------------------|--------------------------|----------------------|----------------------|------------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/21       | 2013/07/21               | 2013/07/22           | 2013/07/22           | 2013/07/22                   |            |                 |
| COC Number    |              | A134528          | A134528                  | A134528              | A134528              | A134528                      |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IDB</b> | <b>EX-13-IDB Lab-Dup</b> | <b>EX-13-AW (3M)</b> | <b>EX-13-AW (7M)</b> | <b>EX-13-AW (7M) Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |        |     |        |         |
|-------------------------------|-------|---------|---------|---------|--------|-----|--------|---------|
| Moisture                      | %     | 14      | N/A     | 13      | 12     | N/A | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |        |     |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | N/A     | <10     | <10    | <10 | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | N/A     | <50     | <50    | <50 | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | N/A     | Yes     | Yes    | Yes | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |         |         |        |     |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | 0.061  | N/A | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | 0.080  | N/A | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010 | N/A | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040 | N/A | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020 | N/A | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12    | N/A | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |        |     |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 108     | 109     | 104     | 104    | N/A | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 100     | 100     | 94      | 97     | N/A | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 121     | 122     | 114     | 93     | N/A | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 105     | 107     | 87      | 101    | N/A | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 98      | N/A     | 91      | 104    | 108 | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9455               | GZ9456               | GZ9457               | GZ9457                       | GZ9458               |            |                 |
|---------------|--------------|----------------------|----------------------|----------------------|------------------------------|----------------------|------------|-----------------|
| Sampling Date |              | 2013/07/22           | 2013/07/22           | 2013/07/22           | 2013/07/22                   | 2013/07/22           |            |                 |
| COC Number    |              | A134528              | A134528              | A134528              | A134528                      | A134528              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW (1M)</b> | <b>EX-13-BW (6M)</b> | <b>EX-13-CW (5M)</b> | <b>EX-13-CW (5M) Lab-Dup</b> | <b>EX-13-DW (6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |        |         |     |         |        |         |
|-------------------------------|-------|---------|--------|---------|-----|---------|--------|---------|
| Moisture                      | %     | 14      | 23     | 13      | 12  | 21      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |        |         |     |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10    | <10     | N/A | <10     | 10     | 7022792 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | 60      | <50    | <50     | N/A | <50     | 50     | 7022792 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50    | <50     | N/A | <50     | 50     | 7022792 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes    | Yes     | N/A | Yes     | N/A    | 7022792 |
| <b>Volatiles</b>              |       |         |        |         |     |         |        |         |
| Benzene                       | mg/kg | <0.0050 | 0.0084 | <0.0050 | N/A | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010 | <0.010  | N/A | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040 | <0.040  | N/A | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020 | <0.020  | N/A | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12    | <12     | N/A | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |        |         |     |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 106     | 110    | 106     | N/A | 109     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 96      | 96     | 95      | N/A | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 95      | 97     | 93      | N/A | 94      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 99      | 100    | 94      | N/A | 97      | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 109     | 105    | 108     | N/A | 97      | N/A    | 7022792 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

| Maxxam ID     |              | GZ9465                     | GZ9466                   | GZ9467                   | GZ9468                   | GZ9469                     |            |                 |
|---------------|--------------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|------------|-----------------|
| Sampling Date |              | 2013/07/22                 | 2013/07/22               | 2013/07/22               | 2013/07/22               | 2013/07/22                 |            |                 |
| COC Number    |              | A134528                    | A134528                  | A134528                  | A134528                  | A134516                    |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>EX-13-DN<br/>(7M)</b> | <b>EX-13-EN<br/>(3M)</b> | <b>EX-13-EN<br/>(7M)</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>    |       |         |         |         |         |         |        |         |
|-------------------------------|-------|---------|---------|---------|---------|---------|--------|---------|
| Moisture                      | %     | 3.2     | 17      | 4.7     | 27      | 25      | 0.30   | 7025403 |
| <b>Ext. Pet. Hydrocarbon</b>  |       |         |         |         |         |         |        |         |
| F2 (C10-C16 Hydrocarbons)     | mg/kg | <10     | <10     | <10     | 12      | <10     | 10     | 7021306 |
| F3 (C16-C34 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | 100     | 230     | 50     | 7021306 |
| F4 (C34-C50 Hydrocarbons)     | mg/kg | <50     | <50     | <50     | <50     | <50     | 50     | 7021306 |
| Reached Baseline at C50       | mg/kg | Yes     | Yes     | Yes     | Yes     | Yes     | N/A    | 7021306 |
| <b>Volatiles</b>              |       |         |         |         |         |         |        |         |
| Benzene                       | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7024383 |
| Toluene                       | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | 0.037   | 0.020  | 7024383 |
| Ethylbenzene                  | mg/kg | <0.010  | <0.010  | <0.010  | <0.010  | <0.010  | 0.010  | 7024383 |
| Xylenes (Total)               | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| m & p-Xylene                  | mg/kg | <0.040  | <0.040  | <0.040  | <0.040  | <0.040  | 0.040  | 7024383 |
| o-Xylene                      | mg/kg | <0.020  | <0.020  | <0.020  | <0.020  | <0.020  | 0.020  | 7024383 |
| F1 (C6-C10) - BTEX            | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| (C6-C10)                      | mg/kg | <12     | <12     | <12     | <12     | <12     | 12     | 7024383 |
| <b>Surrogate Recovery (%)</b> |       |         |         |         |         |         |        |         |
| 1,4-Difluorobenzene (sur.)    | %     | 100     | 108     | 101     | 112     | 111     | N/A    | 7024383 |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 94      | 95      | 97      | 95      | 95      | N/A    | 7024383 |
| D10-ETHYLBENZENE (sur.)       | %     | 91      | 92      | 93      | 95      | 89      | N/A    | 7024383 |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 94      | 95      | 101     | 97      | 109     | N/A    | 7024383 |
| O-TERPHENYL (sur.)            | %     | 106     | 95      | 117     | 108     | 102     | N/A    | 7021306 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit



Maxxam Job #: B363840  
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KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**AT1 BTEX AND F1-F4 IN SOIL (SOIL)**

|               |              |                          |                 |                      |            |                 |
|---------------|--------------|--------------------------|-----------------|----------------------|------------|-----------------|
| Maxxam ID     |              | GZ9471                   |                 | HA0382               |            |                 |
| Sampling Date |              | 2013/07/22               |                 | 2013/07/21           |            |                 |
| COC Number    |              | A134516                  |                 | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-LN<br/>(6M)</b> | <b>QC Batch</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Physical Properties</b>                               |       |         |         |       |        |         |
|--|-------|---------|---------|-------|--------|---------|
| Moisture   | %     | 6.7     | 7025403 | 18    | 0.30   | 7027480 |
| <b>Ext. Pet. Hydrocarbon</b>                             |       |         |         |       |        |         |
| F2 (C10-C16 Hydrocarbons)                                | mg/kg | <10     | 7021306 | 120   | 10     | 7015681 |
| F3 (C16-C34 Hydrocarbons)                                | mg/kg | <50     | 7021306 | 100   | 50     | 7015681 |
| F4 (C34-C50 Hydrocarbons)                                | mg/kg | <50     | 7021306 | <50   | 50     | 7015681 |
| Reached Baseline at C50                                  | mg/kg | Yes     | 7021306 | Yes   | N/A    | 7015681 |
| <b>Volatiles</b>   |       |         |         |       |        |         |
| Benzene  | mg/kg | <0.0050 | 7024383 | 0.11  | 0.0050 | 7020731 |
| Toluene  | mg/kg | <0.020  | 7024383 | 0.14  | 0.020  | 7020731 |
| Ethylbenzene   | mg/kg | <0.010  | 7024383 | 0.097 | 0.010  | 7020731 |
| Xylenes (Total)  | mg/kg | <0.040  | 7024383 | 1.4   | 0.040  | 7020731 |
| m & p-Xylene   | mg/kg | <0.040  | 7024383 | 0.87  | 0.040  | 7020731 |
| o-Xylene   | mg/kg | <0.020  | 7024383 | 0.54  | 0.020  | 7020731 |
| F1 (C6-C10) - BTEX                                       | mg/kg | <12     | 7024383 | 34    | 12     | 7020731 |
| (C6-C10)   | mg/kg | <12     | 7024383 | 36    | 12     | 7020731 |
| <b>Surrogate Recovery (%)</b>                            |       |         |         |       |        |         |
| 1,4-Difluorobenzene (sur.)                               | %     | 103     | 7024383 | 122   | N/A    | 7020731 |
| 4-BROMOFLUOROBENZENE (sur.)                              | %     | 96      | 7024383 | 101   | N/A    | 7020731 |
| D10-ETHYLBENZENE (sur.)                                  | %     | 95      | 7024383 | 123   | N/A    | 7020731 |
| D4-1,2-DICHLOROETHANE (sur.)                             | %     | 102     | 7024383 | 96    | N/A    | 7020731 |
| O-TERPHENYL (sur.)                                       | %     | 102     | 7021306 | 84    | N/A    | 7015681 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |       |         |         |       |        |         |

### SOIL SALINITY 4 (SOIL)

|               |              |                     |            |                 |             |                         |            |                 |
|---------------|--------------|---------------------|------------|-----------------|-------------|-------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              |            |                 | GZ9437      | GZ9437                  |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 |            |                 | 2013/07/23  | 2013/07/23              |            |                 |
| COC Number    |              | A134527             |            |                 | A134527     | A134527                 |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>RDL</b> | <b>QC Batch</b> | <b>TP#2</b> | <b>TP#2<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |         |       |      |       |         |
|--------------------------------|-----------|-------|-------|---------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 7022359 | 2.2   | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.5   | N/A   | 7022359 | 3.4   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 7021708 | 11    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.0   | 0.010 | 7022358 | 1.5   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.60  | 7020006 | 12    | N/A  | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 2.3   | 0.40  | 7020006 | 1.8   | N/A  | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 9.2   | 1.0   | 7020006 | 6.5   | N/A  | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.9   | 0.52  | 7020006 | 4.5   | N/A  | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 6.8   | 2.0   | 7020006 | 3.5   | N/A  | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 2.0   | 7020006 | 31    | N/A  | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |         |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 17    | 5.0   | 7026083 | 11    | N/A  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.30  | 0.020 | 7024503 | 0.31  | N/A  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.61  | N/A   | 7024030 | 7.76  | 7.84 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.93  | 0.10  | 7021713 | 0.81  | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 7026327 | 35    | N/A  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 5.6   | 1.0   | 7026327 | 5.6   | N/A  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 23    | 2.5   | 7026327 | 19    | N/A  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 7.1   | 1.3   | 7026327 | 14    | N/A  | 1.3   | 7026327 |
| Saturation %                   | %         | 40    | N/A   | 7024196 | 33    | N/A  | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 61    | 5.0   | 7026327 | 93    | N/A  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | 7021714 | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
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Maxxam Job #: B363840  
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 Sampler Initials: NW

### SOIL SALINITY 4 (SOIL)

|               |              |             |            |             |            |             |            |              |            |                 |
|---------------|--------------|-------------|------------|-------------|------------|-------------|------------|--------------|------------|-----------------|
| Maxxam ID     |              | GZ9438      |            | GZ9439      |            | GZ9440      |            | GZ9441       |            |                 |
| Sampling Date |              | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23  |            | 2013/07/23   |            |                 |
| COC Number    |              | A134527     |            | A134527     |            | A134527     |            | A134527      |            |                 |
|               | <b>UNITS</b> | <b>TP#3</b> | <b>RDL</b> | <b>TP#4</b> | <b>RDL</b> | <b>TP#5</b> | <b>RDL</b> | <b>TP#17</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.49  | N/A   | 0.89  | N/A   | 0.63  | N/A   | 0.21  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 1.2   | N/A   | 2.9   | N/A   | 1.9   | N/A   | 1.2   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 12    | 0.10  | 12    | 0.10  | 14    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 2.5   | 0.010 | 3.2   | 0.010 | 3.0   | 0.010 | 5.7   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 2.3   | 0.44  | 7.6   | 0.48  | 4.7   | 0.47  | 3.3   | 0.48  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 0.44  | 0.30  | 1.5   | 0.32  | 0.84  | 0.31  | 0.57  | 0.32  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.74  | 6.6   | 0.80  | 4.1   | 0.78  | 3.0   | 0.81  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.0   | 0.39  | 5.0   | 0.42  | 4.0   | 0.41  | 1.4   | 0.42  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <1.5  | 1.5   | <1.6  | 1.6   | <1.6  | 1.6   | <1.6  | 1.6   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 7.0   | 1.5   | 14    | 1.6   | 9.4   | 1.6   | 3.2   | 1.6   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | <5.0  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.11  | 0.020 | 0.23  | 0.020 | 0.15  | 0.020 | 0.085 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.17  | N/A   | 7.60  | N/A   | 7.53  | N/A   | 6.67  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 1.1   | 0.10  | 1.0   | 0.10  | 0.82  | 0.10  | 0.71  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 7.8   | 1.5   | 24    | 1.5   | 15    | 1.5   | 10    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 1.5   | 1.0   | 4.6   | 1.0   | 2.7   | 1.0   | 1.8   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 21    | 2.5   | 13    | 2.5   | 9.4   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 6.9   | 1.3   | 16    | 1.3   | 13    | 1.3   | 4.5   | 1.3   | 7026327 |
| Saturation %                   | %         | 30    | N/A   | 32    | N/A   | 31    | N/A   | 32    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 24    | 5.0   | 43    | 5.0   | 30    | 5.0   | 9.9   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit





Maxxam Job #: B363840  
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KLOHN CRIPPEN BERGER LTD  
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 Sampler Initials: NW

### SOIL SALINITY 4 (SOIL)

|               |              |              |            |                 |            |                  |            |                  |            |                 |
|---------------|--------------|--------------|------------|-----------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9442       |            | GZ9443          |            | GZ9444           |            | GZ9445           |            |                 |
| Sampling Date |              | 2013/07/23   |            | 2013/07/20      |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527      |            | A134527         |            | A134527          |            | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#18</b> | <b>RDL</b> | <b>DS13-001</b> | <b>RDL</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>EX-13-IJB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 0.76  | N/A   | 12    | N/A   | 4.2   | N/A   | 16    | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.9   | N/A   | 12    | N/A   | 5.1   | N/A   | 16    | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 13    | 0.10  | 9.3   | 0.10  | 11    | 0.10  | 11    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 3.8   | 0.010 | 1.0   | 0.010 | 1.2   | 0.010 | 1.0   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 15    | 0.63  | 28    | 0.55  | 20    | 0.53  | 81    | 0.57  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.42  | 7.4   | 0.37  | 4.2   | 0.35  | 13    | 0.38  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.1   | 1.1   | 50    | 0.92  | 9.0   | 0.88  | 23    | 0.95  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 4.5   | 0.54  | 5.8   | 0.48  | 2.9   | 0.46  | 4.7   | 0.49  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | <2.1  | 2.1   | 72    | 1.8   | 4.0   | 1.8   | 34    | 1.9   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 15    | 2.1   | 110   | 1.8   | 65    | 1.8   | 250   | 1.9   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | <5.0  | 5.0   | 200   | 5.0   | 11    | 5.0   | 90    | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 1.3   | 0.020 | 0.45  | 0.020 | 1.5   | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.53  | N/A   | 7.16  | N/A   | 7.23  | N/A   | 6.90  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.41  | 0.10  | 3.6   | 0.10  | 0.80  | 0.10  | 1.0   | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 37    | 1.5   | 76    | 1.5   | 56    | 1.5   | 210   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 20    | 1.0   | 12    | 1.0   | 35    | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 9.7   | 2.5   | 130   | 2.5   | 25    | 2.5   | 60    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 11    | 1.3   | 16    | 1.3   | 8.3   | 1.3   | 12    | 1.3   | 7026327 |
| Saturation %                   | %         | 42    | N/A   | 37    | N/A   | 35    | N/A   | 38    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 36    | 5.0   | 290   | 5.0   | 180   | 5.0   | 650   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit



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 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                  |            |                  |            |                  |            |                  |            |                 |
|---------------|--------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9446           |            | GZ9447           |            | GZ9448           |            | GZ9449           |            |                 |
| Sampling Date |              | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            | 2013/07/21       |            |                 |
| COC Number    |              | A134527          |            | A134527          |            | A134528          |            | A134528          |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IKE</b> | <b>RDL</b> | <b>EX-13-ILE</b> | <b>RDL</b> | <b>EX-13-IEB</b> | <b>RDL</b> | <b>EX-13-IDB</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |       |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.7   | N/A   | 3.5   | N/A   | 1.3   | N/A   | 1.8   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.3   | N/A   | 4.3   | N/A   | 2.8   | N/A   | 2.8   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 11    | 0.10  | 12    | 0.10  | 12    | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.4   | 0.010 | 1.2   | 0.010 | 2.0   | 0.010 | 1.5   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 11    | 0.53  | 18    | 0.54  | 8.5   | 0.48  | 10    | 0.50  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.2   | 0.35  | 3.2   | 0.36  | 2.1   | 0.32  | 2.4   | 0.33  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 3.7   | 0.89  | 7.2   | 0.90  | 5.2   | 0.79  | 4.6   | 0.83  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 1.2   | 0.46  | 1.6   | 0.47  | 1.8   | 0.41  | 1.5   | 0.43  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.1   | 1.8   | 7.2   | 1.8   | 5.3   | 1.6   | 2.9   | 1.7   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 24    | 1.8   | 50    | 1.8   | 13    | 1.6   | 26    | 1.7   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.9   | 5.0   | 20    | 5.0   | 17    | 5.0   | 8.5   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.21  | 0.020 | 0.37  | 0.020 | 0.23  | 0.020 | 0.24  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.26  | N/A   | 7.26  | N/A   | 6.99  | N/A   | 7.64  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.48  | 0.10  | 0.68  | 0.10  | 0.73  | 0.10  | 0.58  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 30    | 1.5   | 51    | 1.5   | 27    | 1.5   | 31    | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 3.3   | 1.0   | 9.0   | 1.0   | 6.7   | 1.0   | 7.2   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 10    | 2.5   | 20    | 2.5   | 16    | 2.5   | 14    | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 3.3   | 1.3   | 4.5   | 1.3   | 5.7   | 1.3   | 4.4   | 1.3   | 7026327 |
| Saturation %                   | %         | 36    | N/A   | 36    | N/A   | 32    | N/A   | 33    | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 68    | 5.0   | 140   | 5.0   | 42    | 5.0   | 77    | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 |

RDL = Reportable Detection Limit



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KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                          |            |                          |            |                          |                                      |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|--------------------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9453                   |            | GZ9454                   |            | GZ9455                   | GZ9455                               |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               | 2013/07/22                           |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  | A134528                              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>EX-13-AW<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-BW<br/>(1M)</b> | <b>EX-13-BW<br/>(1M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |       |      |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 2.0   | N/A   | 2.7   | N/A   | 0.94  | N/A  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 3.8   | N/A   | 4.4   | N/A   | 2.9   | N/A  | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 11    | 0.10  | 10    | 0.10  | 15    | N/A  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.9   | 0.010 | 1.6   | 0.010 | 3.1   | N/A  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 18    | 0.68  | 16    | 0.53  | 6.8   | N/A  | 0.74  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 3.8   | 0.45  | 2.3   | 0.35  | 1.4   | N/A  | 0.49  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 11    | 1.1   | 10    | 0.88  | 22    | N/A  | 1.2   | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 2.3   | 0.59  | 3.6   | 0.46  | 1.1   | N/A  | 0.64  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 16    | 2.3   | 12    | 1.8   | 9.0   | N/A  | 2.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 22    | 2.3   | 29    | 1.8   | 10    | N/A  | 2.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 35    | 5.0   | 35    | 5.0   | 18    | 10   | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 0.35  | 0.020 | 0.42  | 0.020 | 0.19  | 0.19 | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.12  | N/A   | 7.24  | N/A   | 7.00  | N/A  | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 0.89  | 0.10  | 1.1   | 0.10  | 2.9   | N/A  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 40    | 1.5   | 46    | 1.5   | 14    | 12   | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 8.3   | 1.0   | 6.4   | 1.0   | 2.8   | 2.3  | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 24    | 2.5   | 30    | 2.5   | 45    | 43   | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 5.0   | 1.3   | 10    | 1.3   | 2.1   | 1.6  | 1.3   | 7026327 |
| Saturation %                   | %         | 45    | N/A   | 35    | N/A   | 49    | 49   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 48    | 5.0   | 83    | 5.0   | 20    | 18   | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | N/A  | 0.10  | 7021714 |

N/A = Not Applicable  
 RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                          |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9456                   |            | GZ9457                   |            | GZ9458                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22               |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134528                  |            | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-BW<br/>(6M)</b> | <b>RDL</b> | <b>EX-13-CW<br/>(5M)</b> | <b>RDL</b> | <b>EX-13-DW<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |         |       |       |       |      |       |         |
|--------------------------------|-----------|---------|-------|-------|-------|------|-------|---------|
| Anion Sum                      | meq/L     | 20      | N/A   | 3.3   | N/A   | 18   | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 22      | N/A   | 4.1   | N/A   | 19   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 9.9     | 0.10  | 10    | 0.10  | 9.7  | 0.10  | 7021708 |
| Ion Balance                    | N/A       | 1.1     | 0.010 | 1.2   | 0.010 | 1.0  | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 34      | 0.50  | 11    | 0.51  | 42   | 0.54  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 8.4     | 0.34  | 2.1   | 0.34  | 12   | 0.36  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 110     | 0.84  | 13    | 0.85  | 83   | 0.91  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 3.9     | 0.44  | 2.6   | 0.44  | 3.7  | 0.47  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 150     | 3.4   | 7.3   | 1.7   | 140  | 1.8   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 120     | 1.7   | 44    | 1.7   | 120  | 1.8   | 7022361 |
| <b>Soluble Parameters</b>      |           |         |       |       |       |      |       |         |
| Soluble Chloride (Cl)          | mg/L      | 440 (1) | 10    | 21    | 5.0   | 400  | 5.0   | 7026083 |
| Soluble Conductivity           | dS/m      | 2.2     | 0.020 | 0.40  | 0.020 | 1.9  | 0.020 | 7024503 |
| Soluble (CaCl2) pH             | N/A       | 7.39    | N/A   | 7.62  | N/A   | 7.19 | N/A   | 7024030 |
| Sodium Adsorption Ratio        | N/A       | 7.7     | 0.10  | 1.7   | 0.10  | 4.9  | 0.10  | 7021713 |
| Soluble Calcium (Ca)           | mg/L      | 100     | 1.5   | 33    | 1.5   | 120  | 1.5   | 7026327 |
| Soluble Magnesium (Mg)         | mg/L      | 25      | 1.0   | 6.3   | 1.0   | 33   | 1.0   | 7026327 |
| Soluble Sodium (Na)            | mg/L      | 330     | 2.5   | 39    | 2.5   | 230  | 2.5   | 7026327 |
| Soluble Potassium (K)          | mg/L      | 12      | 1.3   | 7.7   | 1.3   | 10   | 1.3   | 7026327 |
| Saturation %                   | %         | 34      | N/A   | 34    | N/A   | 36   | N/A   | 7024196 |
| Soluble Sulphate (SO4)         | mg/L      | 360     | 5.0   | 130   | 5.0   | 330  | 5.0   | 7026327 |
| Theoretical Gypsum Requirement | tonnes/ha | 1.1     | 0.10  | <0.10 | 0.10  | 0.24 | 0.10  | 7021714 |

RDL = Reportable Detection Limit  
( 1 ) Detection limits raised due to dilution to bring analyte within the calibrated range.



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**SOIL SALINITY 4 (SOIL)**

|               |              |                            |            |                          |            |                 |                          |            |                 |
|---------------|--------------|----------------------------|------------|--------------------------|------------|-----------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9465                     |            | GZ9466                   |            |                 | GZ9467                   |            |                 |
| Sampling Date |              | 2013/07/22                 |            | 2013/07/22               |            |                 | 2013/07/22               |            |                 |
| COC Number    |              | A134528                    |            | A134528                  |            |                 | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-DN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-DN<br/>(7M)</b> | <b>RDL</b> | <b>QC Batch</b> | <b>EX-13-EN<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>   |           |       |       |       |       |         |       |       |         |
|--------------------------------|-----------|-------|-------|-------|-------|---------|-------|-------|---------|
| Anion Sum                      | meq/L     | 1.1   | N/A   | 7.0   | N/A   | 7022359 | 0.23  | N/A   | 7022359 |
| Cation Sum                     | meq/L     | 2.7   | N/A   | 7.1   | N/A   | 7022359 | 1.7   | N/A   | 7022359 |
| Cation/EC Ratio                | N/A       | 12    | 0.10  | 10    | 0.10  | 7021708 | 14    | 0.10  | 7022350 |
| Ion Balance                    | N/A       | 2.4   | 0.010 | 1.0   | 0.010 | 7022358 | 7.4   | 0.010 | 7022358 |
| Calculated Calcium (Ca)        | mg/kg     | 10    | 0.59  | 22    | 0.45  | 7022361 | 4.4   | 0.44  | 7022361 |
| Calculated Magnesium (Mg)      | mg/kg     | 1.7   | 0.39  | 5.7   | 0.30  | 7022361 | 0.61  | 0.29  | 7022361 |
| Calculated Sodium (Na)         | mg/kg     | 4.7   | 0.98  | 12    | 0.75  | 7022361 | 4.5   | 0.73  | 7022361 |
| Calculated Potassium (K)       | mg/kg     | 7.7   | 0.51  | 2.9   | 0.39  | 7022361 | 0.74  | 0.38  | 7022361 |
| Calculated Chloride (Cl)       | mg/kg     | 3.4   | 2.0   | 5.3   | 1.5   | 7022361 | <1.5  | 1.5   | 7022361 |
| Calculated Sulphate (SO4)      | mg/kg     | 17    | 2.0   | 93    | 1.5   | 7022361 | 3.1   | 1.5   | 7022361 |
| <b>Soluble Parameters</b>      |           |       |       |       |       |         |       |       |         |
| Soluble Chloride (Cl)          | mg/L      | 8.6   | 5.0   | 18    | 5.0   | 7026562 | <5.0  | 5.0   | 7026562 |
| Soluble Conductivity           | dS/m      | 0.22  | 0.020 | 0.71  | 0.020 | 7025245 | 0.12  | 0.020 | 7025245 |
| Soluble (CaCl2) pH             | N/A       | 7.25  | N/A   | 7.46  | N/A   | 7024049 | 7.74  | N/A   | 7024049 |
| Sodium Adsorption Ratio        | N/A       | 0.57  | 0.10  | 1.1   | 0.10  | 7021713 | 0.99  | 0.10  | 7022360 |
| Soluble Calcium (Ca)           | mg/L      | 26    | 1.5   | 72    | 1.5   | 7026924 | 15    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)         | mg/L      | 4.2   | 1.0   | 19    | 1.0   | 7026924 | 2.1   | 1.0   | 7026924 |
| Soluble Sodium (Na)            | mg/L      | 12    | 2.5   | 40    | 2.5   | 7026924 | 15    | 2.5   | 7026924 |
| Soluble Potassium (K)          | mg/L      | 20    | 1.3   | 9.8   | 1.3   | 7026924 | 2.5   | 1.3   | 7026924 |
| Saturation %                   | %         | 39    | N/A   | 30    | N/A   | 7024253 | 29    | N/A   | 7024253 |
| Soluble Sulphate (SO4)         | mg/L      | 42    | 5.0   | 310   | 5.0   | 7026924 | 11    | 5.0   | 7026924 |
| Theoretical Gypsum Requirement | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | 7021714 | <0.10 | 0.10  | 7022362 |

RDL = Reportable Detection Limit

### SOIL SALINITY 4 (SOIL)

|               |              |                          |            |                            |            |                          |            |                 |
|---------------|--------------|--------------------------|------------|----------------------------|------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9468                   |            | GZ9469                     |            | GZ9471                   |            |                 |
| Sampling Date |              | 2013/07/22               |            | 2013/07/22                 |            | 2013/07/22               |            |                 |
| COC Number    |              | A134528                  |            | A134516                    |            | A134516                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-EN<br/>(7M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(0-1M)</b> | <b>RDL</b> | <b>EX-13-LN<br/>(6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |       |       |       |       |       |       |         |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|---------|
| Anion Sum                        | meq/L     | 19    | N/A   | 1.0   | N/A   | 2.9   | N/A   | 7022359 |
| Cation Sum                       | meq/L     | 18    | N/A   | 2.2   | N/A   | 4.7   | N/A   | 7022359 |
| Cation/EC Ratio                  | N/A       | 12    | 0.10  | 13    | 0.10  | 12    | 0.10  | 7022350 |
| Ion Balance                      | N/A       | 0.98  | 0.010 | 2.1   | 0.010 | 1.6   | 0.010 | 7022358 |
| Calculated Calcium (Ca)          | mg/kg     | 90    | 0.62  | 25    | 2.1   | 28    | 0.82  | 7022361 |
| Calculated Magnesium (Mg)        | mg/kg     | 27    | 0.41  | 7.3   | 1.4   | 7.4   | 0.55  | 7022361 |
| Calculated Sodium (Na)           | mg/kg     | 16    | 1.0   | 28    | 3.5   | 4.9   | 1.4   | 7022361 |
| Calculated Potassium (K)         | mg/kg     | 3.7   | 0.53  | 1.9   | 1.8   | 14    | 0.71  | 7022361 |
| Calculated Chloride (Cl)         | mg/kg     | 32    | 2.1   | 10    | 7.0   | 4.0   | 2.7   | 7022361 |
| Calculated Sulphate (SO4)        | mg/kg     | 320   | 2.1   | 56    | 7.0   | 70    | 2.7   | 7022361 |
| <b>Soluble Parameters</b>        |           |       |       |       |       |       |       |         |
| Soluble Chloride (Cl)            | mg/L      | 77    | 5.0   | 7.4   | 5.0   | 7.3   | 5.0   | 7026562 |
| Soluble Conductivity             | dS/m      | 1.5   | 0.020 | 0.18  | 0.020 | 0.41  | 0.020 | 7025245 |
| Soluble (CaCl2) pH               | N/A       | 6.72  | N/A   | 6.10  | N/A   | 6.64  | N/A   | 7024049 |
| Sodium Adsorption Ratio          | N/A       | 0.58  | 0.10  | 1.1   | 0.10  | 0.29  | 0.10  | 7022360 |
| Soluble Calcium (Ca)             | mg/L      | 220   | 1.5   | 17    | 1.5   | 51    | 1.5   | 7026924 |
| Soluble Magnesium (Mg)           | mg/L      | 66    | 1.0   | 5.2   | 1.0   | 13    | 1.0   | 7026924 |
| Soluble Sodium (Na)              | mg/L      | 39    | 2.5   | 20    | 2.5   | 8.9   | 2.5   | 7026924 |
| Soluble Potassium (K)            | mg/L      | 8.9   | 1.3   | 1.4   | 1.3   | 25    | 1.3   | 7026924 |
| Saturation %                     | %         | 41    | N/A   | 140   | N/A   | 55    | N/A   | 7024253 |
| Soluble Sulphate (SO4)           | mg/L      | 790   | 5.0   | 40    | 5.0   | 130   | 5.0   | 7026924 |
| Theoretical Gypsum Requirement   | tonnes/ha | <0.10 | 0.10  | <0.10 | 0.10  | <0.10 | 0.10  | 7022362 |
| RDL = Reportable Detection Limit |           |       |       |       |       |       |       |         |



### SOIL SALINITY 4 (SOIL)

|               |              |                      |            |                 |
|---------------|--------------|----------------------|------------|-----------------|
| Maxxam ID     |              | HA0382               |            |                 |
| Sampling Date |              | 2013/07/21           |            |                 |
| COC Number    |              | A134527              |            |                 |
|               | <b>UNITS</b> | <b>EX-13-1KB(7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| <b>Calculated Parameters</b>     |           |      |       |         |
|----------------------------------|-----------|------|-------|---------|
| Anion Sum                        | meq/L     | 6.0  | N/A   | 7025961 |
| Cation Sum                       | meq/L     | 6.4  | N/A   | 7025961 |
| Cation/EC Ratio                  | N/A       | 9.0  | 0.10  | 7025954 |
| Ion Balance                      | N/A       | 1.1  | 0.010 | 7025960 |
| Calculated Calcium (Ca)          | mg/kg     | 2.7  | 0.54  | 7025964 |
| Calculated Magnesium (Mg)        | mg/kg     | 0.76 | 0.36  | 7025964 |
| Calculated Sodium (Na)           | mg/kg     | 45   | 0.90  | 7025964 |
| Calculated Potassium (K)         | mg/kg     | 5.4  | 0.47  | 7025964 |
| Calculated Chloride (Cl)         | mg/kg     | 36   | 1.8   | 7025964 |
| Calculated Sulphate (SO4)        | mg/kg     | 55   | 1.8   | 7025964 |
| <b>Soluble Parameters</b>        |           |      |       |         |
| Soluble Chloride (Cl)            | mg/L      | 100  | 5.0   | 7028052 |
| Soluble Conductivity             | dS/m      | 0.72 | 0.020 | 7027970 |
| Soluble (CaCl2) pH               | N/A       | 6.94 | N/A   | 7027624 |
| Sodium Adsorption Ratio          | N/A       | 10   | 0.10  | 7025962 |
| Soluble Calcium (Ca)             | mg/L      | 7.5  | 1.5   | 7028146 |
| Soluble Magnesium (Mg)           | mg/L      | 2.1  | 1.0   | 7028146 |
| Soluble Sodium (Na)              | mg/L      | 130  | 2.5   | 7028146 |
| Soluble Potassium (K)            | mg/L      | 15   | 1.3   | 7028146 |
| Saturation %                     | %         | 36   | N/A   | 7027318 |
| Soluble Sulphate (SO4)           | mg/L      | 150  | 5.0   | 7028146 |
| Theoretical Gypsum Requirement   | tonnes/ha | 0.19 | 0.10  | 7025965 |
| RDL = Reportable Detection Limit |           |      |       |         |



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
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 Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|  |        |        |       |         |
|--|--------|--------|-------|---------|
| <b>Soluble Parameters</b>                                |        |        |       |         |
| Soluble (1:1) pH   | N/A    | 7.44   | N/A   | 7024529 |
| <b>Physical Properties</b>                               |        |        |       |         |
| Closed Cup Flash point                                   | deg. C | >61    | N/A   | 7026825 |
| Free Liquid  | N/A    | PASS   | N/A   | 7026879 |
| <b>Elements</b>  |        |        |       |         |
| Leachable Antimony (Sb)                                  | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Arsenic (As)                                   | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Barium (Ba)                                    | mg/L   | 2.2    | 1.0   | 7023787 |
| Leachable Beryllium (Be)                                 | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Boron (B)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Cadmium (Cd)                                   | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Chromium (Cr)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Cobalt (Co)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Copper (Cu)                                    | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Iron (Fe)                                      | mg/L   | 11     | 1.0   | 7023787 |
| Leachable Lead (Pb)                                      | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Mercury (Hg)                                   | mg/L   | <0.020 | 0.020 | 7023787 |
| Leachable Nickel (Ni)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Selenium (Se)                                  | mg/L   | <0.10  | 0.10  | 7023787 |
| Leachable Silver (Ag)                                    | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Thallium (Tl)                                  | mg/L   | <0.50  | 0.50  | 7023787 |
| Leachable Uranium (U)                                    | mg/L   | <0.20  | 0.20  | 7023787 |
| Leachable Vanadium (V)                                   | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zinc (Zn)                                      | mg/L   | <1.0   | 1.0   | 7023787 |
| Leachable Zirconium (Zr)                                 | mg/L   | <1.0   | 1.0   | 7023787 |
| <b>Volatiles</b>   |        |        |       |         |
| Leachable (ZH) Benzene                                   | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) Toluene                                   | ug/L   | 18     | 10    | 7024500 |
| Leachable (ZH) Ethylbenzene                              | ug/L   | <10    | 10    | 7024500 |
| Leachable (ZH) o-Xylene                                  | ug/L   | 53     | 10    | 7024500 |
| Leachable (ZH) m & p-Xylene                              | ug/L   | 80     | 20    | 7024500 |
| Leachable (ZH) Xylenes (Total)                           | ug/L   | 130    | 20    | 7024500 |
| <b>Surrogate Recovery (%)</b>                            |        |        |       |         |
| Leachable (ZH) 1,4-Difluorobenzene (sur.)                | %      | 91     | N/A   | 7024500 |
| N/A = Not Applicable<br>RDL = Reportable Detection Limit |        |        |       |         |



Maxxam Job #: B363840  
Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
Client Project #: A04012A05  
Site Location: CAMP FAREWELL  
Sampler Initials: NW

**BASIC CLASS II LANDFILL PACKAGE (SOIL)**

|               |              |                 |            |                 |
|---------------|--------------|-----------------|------------|-----------------|
| Maxxam ID     |              | GZ9443          |            |                 |
| Sampling Date |              | 2013/07/20      |            |                 |
| COC Number    |              | A134527         |            |                 |
|               | <b>UNITS</b> | <b>DS13-001</b> | <b>RDL</b> | <b>QC Batch</b> |

|   |   |    |     |         |
|---|---|----|-----|---------|
| Leachable (ZH) 4-BROMOFLUOROBENZENE (sur.)  | % | 98 | N/A | 7024500 |
| Leachable (ZH) D4-1,2-DICHLOROETHANE (sur.) | % | 87 | N/A | 7024500 |

N/A = Not Applicable  
RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                     |             |             |             |             |            |                 |
|---------------|--------------|---------------------|-------------|-------------|-------------|-------------|------------|-----------------|
| Maxxam ID     |              | GZ9436              | GZ9437      | GZ9438      | GZ9439      | GZ9440      |            |                 |
| Sampling Date |              | 2013/07/23<br>15:30 | 2013/07/23  | 2013/07/23  | 2013/07/23  | 2013/07/23  |            |                 |
| COC Number    |              | A134527             | A134527     | A134527     | A134527     | A134527     |            |                 |
|               | <b>UNITS</b> | <b>TP#1</b>         | <b>TP#2</b> | <b>TP#3</b> | <b>TP#4</b> | <b>TP#5</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |       |       |       |       |         |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.19  | 0.11  | 0.19  | 0.25  | <0.10 | 0.10  | 7026671 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Arsenic (As)            | mg/kg | 6.6   | 6.4   | 6.5   | 5.0   | 4.5   | 1.0   | 7026100 |
| Total Barium (Ba)             | mg/kg | 2300  | 1700  | 1100  | 1900  | 580   | 10    | 7026100 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40  | 7026100 |
| Total Cadmium (Cd)            | mg/kg | 0.26  | <0.10 | <0.10 | <0.10 | <0.10 | 0.10  | 7026100 |
| Total Chromium (Cr)           | mg/kg | 6.8   | 5.3   | 6.8   | 5.3   | 4.6   | 1.0   | 7026100 |
| Total Cobalt (Co)             | mg/kg | 2.7   | 3.0   | 2.7   | 2.2   | 1.9   | 1.0   | 7026100 |
| Total Copper (Cu)             | mg/kg | 10    | 6.2   | 8.0   | 6.1   | <5.0  | 5.0   | 7026100 |
| Total Lead (Pb)               | mg/kg | 61    | 18    | 18    | 18    | 9.1   | 1.0   | 7026100 |
| Total Mercury (Hg)            | mg/kg | 0.12  | 0.064 | 0.061 | 0.072 | 0.057 | 0.050 | 7026100 |
| Total Molybdenum (Mo)         | mg/kg | 0.68  | 0.61  | 0.98  | 0.50  | <0.40 | 0.40  | 7026100 |
| Total Nickel (Ni)             | mg/kg | 7.0   | 7.1   | 6.9   | 5.2   | 4.9   | 1.0   | 7026100 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50  | 7026100 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30  | 7026100 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  | 1.0   | 7026100 |
| Total Vanadium (V)            | mg/kg | 11    | 11    | 10    | 9.7   | 8.6   | 1.0   | 7026100 |
| Total Zinc (Zn)               | mg/kg | 77    | 29    | 23    | 29    | 17    | 10    | 7026100 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |              |              |                 |                 |                  |            |                 |
|---------------|--------------|--------------|--------------|-----------------|-----------------|------------------|------------|-----------------|
| Maxxam ID     |              | GZ9441       | GZ9442       | GZ9443          |                 | GZ9444           |            |                 |
| Sampling Date |              | 2013/07/23   | 2013/07/23   | 2013/07/20      |                 | 2013/07/21       |            |                 |
| COC Number    |              | A134527      | A134527      | A134527         |                 | A134527          |            |                 |
|               | <b>UNITS</b> | <b>TP#17</b> | <b>TP#18</b> | <b>DS13-001</b> | <b>QC Batch</b> | <b>EX-13-ILB</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |       |       |        |         |        |       |         |
|-------------------------------|-------|-------|-------|--------|---------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.11  | 0.34  | 0.72   | 7026671 | 0.39   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15 | <0.15 | <0.15  | 7024524 | <0.15  | 0.15  | 7024524 |
| Total Antimony (Sb)           | mg/kg | <1.0  | <1.0  | 1.2    | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 7.9   | 6.7   | 5.5    | 7026100 | 5.9    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 740   | 1100  | 420    | 7026100 | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40 | <0.40 | <0.40  | 7026100 | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.11  | 0.17  | 0.18   | 7026100 | 0.23   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 6.6   | 110   | 11     | 7026100 | 13     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.9   | 3.3   | 3.8    | 7026100 | 3.9    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 6.8   | 7.9   | 11     | 7026100 | 14     | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 8.4   | 22    | 16     | 7026100 | 13     | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | 0.053 | 0.081 | <0.050 | 7026100 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.66  | 0.74  | 0.67   | 7026100 | 0.80   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 9.2   | 8.5   | 12     | 7026100 | 14     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50 | <0.50 | <0.50  | 7026100 | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30 | <0.30 | <0.30  | 7026100 | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | <1.0  | <1.0  | 1.3    | 7026100 | 2.0    | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0  | <1.0  | <1.0   | 7026100 | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 15    | 13    | 11     | 7026100 | 14     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 28    | 30    | 46     | 7026100 | 57     | 10    | 7024736 |

RDL = Reportable Detection Limit



Maxxam Job #: B363840  
 Report Date: 2013/08/03

KLOHN CRIPPEN BERGER LTD  
 Client Project #: A04012A05  
 Site Location: CAMP FAREWELL  
 Sampler Initials: NW

**REGULATED METALS (CCME/AT1) - SOILS**

|               |              |                  |                  |                  |                  |                  |                          |            |                 |
|---------------|--------------|------------------|------------------|------------------|------------------|------------------|--------------------------|------------|-----------------|
| Maxxam ID     |              | GZ9445           | GZ9446           | GZ9447           | GZ9448           | GZ9449           | GZ9453                   |            |                 |
| Sampling Date |              | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/21       | 2013/07/22               |            |                 |
| COC Number    |              | A134527          | A134527          | A134527          | A134528          | A134528          | A134528                  |            |                 |
|               | <b>UNITS</b> | <b>EX-13-IJB</b> | <b>EX-13-IKE</b> | <b>EX-13-ILE</b> | <b>EX-13-IEB</b> | <b>EX-13-IDB</b> | <b>EX-13-AW<br/>(3M)</b> | <b>RDL</b> | <b>QC Batch</b> |

| Elements                      |       |        |        |        |        |        |        |       |         |
|-------------------------------|-------|--------|--------|--------|--------|--------|--------|-------|---------|
| Soluble (Hot water) Boron (B) | mg/kg | 0.50   | <0.10  | <0.10  | 0.20   | <0.10  | 0.90   | 0.10  | 7025702 |
| Hex. Chromium (Cr 6+)         | mg/kg | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | <0.15  | 0.15  | 7024522 |
| Total Antimony (Sb)           | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Arsenic (As)            | mg/kg | 5.1    | 4.9    | 4.4    | 5.6    | 5.2    | 8.1    | 1.0   | 7024736 |
| Total Barium (Ba)             | mg/kg | 1900   | 82     | 120    | 350    | 91     | 180    | 10    | 7024736 |
| Total Beryllium (Be)          | mg/kg | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | <0.40  | 0.40  | 7024736 |
| Total Cadmium (Cd)            | mg/kg | 0.22   | <0.10  | <0.10  | <0.10  | <0.10  | 0.12   | 0.10  | 7024736 |
| Total Chromium (Cr)           | mg/kg | 11     | 6.3    | 6.6    | 25     | 7.0    | 11     | 1.0   | 7024736 |
| Total Cobalt (Co)             | mg/kg | 3.4    | 4.0    | 3.8    | 3.5    | 3.8    | 4.2    | 1.0   | 7024736 |
| Total Copper (Cu)             | mg/kg | 25     | <5.0   | <5.0   | <5.0   | <5.0   | 6.5    | 5.0   | 7024736 |
| Total Lead (Pb)               | mg/kg | 18     | 3.0    | 3.7    | 6.5    | 3.3    | 4.8    | 1.0   | 7024736 |
| Total Mercury (Hg)            | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 7024736 |
| Total Molybdenum (Mo)         | mg/kg | 0.63   | 0.47   | <0.40  | 0.81   | 0.46   | 0.62   | 0.40  | 7024736 |
| Total Nickel (Ni)             | mg/kg | 10     | 11     | 10     | 17     | 10     | 12     | 1.0   | 7024736 |
| Total Selenium (Se)           | mg/kg | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | <0.50  | 0.50  | 7024736 |
| Total Silver (Ag)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Thallium (Tl)           | mg/kg | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | <0.30  | 0.30  | 7024736 |
| Total Tin (Sn)                | mg/kg | 3.9    | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Uranium (U)             | mg/kg | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | <1.0   | 1.0   | 7024736 |
| Total Vanadium (V)            | mg/kg | 14     | 12     | 13     | 13     | 13     | 20     | 1.0   | 7024736 |
| Total Zinc (Zn)               | mg/kg | 60     | 27     | 30     | 26     | 27     | 34     | 10    | 7024736 |

RDL = Reportable Detection Limit