

Roberts Bay and Ida Bay Abandoned Mine Sites Environmental Site Assessment Final Report

Prepared for:

Public Works & Government Services Canada
Environmental Services, Western Region
5th Floor, 10025 Jasper Avenue
Edmonton, Alberta, T5J 1S6

Prepared by:

*Earth Tech Canada Inc.
17203-103rd Ave.,
Edmonton, Alberta, T5S 1J4
(780) 488-6800*

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Public Works and Government Services Canada
Environmental Services
5th Floor, 10025 Jasper Avenue
Edmonton, AB
T5J 1S6

Attention: Mr. Jared Buchko

Dear Sir:

**Re: Roberts and Ida Bay Abandoned Mine Sites – Environmental Site Assessment
Final Report**

Earth Tech Canada Inc. is pleased to submit five copies of our report presenting the results of the environmental site assessment that was completed at the Roberts Bay and Ida Bay abandoned silver mines in Nunavut.

Thank you for the opportunity to be involved in this interesting project. If you have any questions, please contact the undersigned at 453-0710.

Very truly yours,

EARTH TECH (CANADA) INC.

Per:



Gordon Woollett, P.Eng.
Project Manager Environment Group

Encl.

ROBERTS BAY AND IDA BAY ABANDONED MINE SITES
ENVIRONMENTAL SITE ASSESSMENT
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1.0 EXECUTIVE SUMMARY

In order to assist in the development of a remedial plan for the Roberts and Ida Bay Mine sites, Public Works Government Services Canada (PWGSC) was required to complete further assessments at the site. The assessments include the completion of a subsurface environmental (Phase III) assessment, a waste audit of hazardous and non-hazardous materials, the completion of a geotechnical investigation to identify potential borrow and landfill sites as well as the completion of a geophysical assessment to identify areas with buried debris.

In August 2005, on behalf of the Department of Indian Affairs and Northern Development (DIAND), PWGSC commissioned Earth Tech to complete the above assessments at the Roberts and Ida Bay Mine sites. In addition, PWGSC also commissioned AMEC to complete a geochemical assessment on the tailings and waste rock, an assessment of all mine related workings and to complete a remediation plan for the site. The fieldwork for this program was completed between August 15 and August 22, 2005.

In summary Earth Tech did not identify any PCB, pesticide or PAH contaminant issues on the site and the contaminants were limited to hydrocarbon and metals in soils.

Hydrocarbon impacted soils were identified in the area of the Fuel Bladders, Garage and Mill buildings. The total volume of hydrocarbon impacted soils at these three sites was estimated at 325 m³.

Based on the analysis of fines (i.e. less than 5 mm in size) collected from the surface of the waste rock pads, there were exceedances above the CCME residential/parkland criteria for metals in all the areas where waste rock is located. Metal parameters that typically exceeded criteria in these samples included; arsenic, barium, chromium, copper, lead, nickel, silver and zinc. These metal concentrations were commonly an order of magnitude higher than the metal concentrations found in the background locations. Field observations indicated that fine grained soils existed in all areas where waste rock was located or within a few metres of areas dominated with large diameter rock materials on the surface. The area covered with waste rock is approximately 1.5 ha in size.

Very high metal concentrations were identified in the general vicinity of the mill. The metal concentrations in this area were generally two or more orders of magnitude higher than the metals determined in the waste rock fines. It is assumed that the elevated metal concentrations in the area of Mill is related to the processing of the ore material in this location. The volume of soils contained within this area is estimated at 65 m³. Approximately 40 m³ of the metal impacted material is co-contaminated with hydrocarbons.

Based on the completion of additional leachate testing on samples collected within the Mill, there is the potential for this material to generate metal containing leachate that exceeds CCME FWAL criteria as well as leachate that would be defined as hazardous according to the Alberta Waste Control Regulation. BCMEM shakeflask testing completed on samples collected from the garage and from the camp have also shown the potential to create metal containing leachate under specific conditions. It is recommended that an assessment of this data be included in the geochemical assessment in order to develop an overall approach to address and mitigate waste rock issues at the site.

At Ida Bay there were no contaminant concerns identified other than the elevated copper and lead concentrations in the sediment samples collected below the waste rock piles.

Based on the findings of the environmental site assessment, the following table presents a summary of the areas requiring remedial action at the Roberts Bay and Ida Bay abandoned mine sites.

Table 1: Summary of Investigation Results

Location	Contaminant Exceeding Governing Criteria (Max Concentration ppm)	Media	Volume m ³	Comments
Roberts Bay				
Fuel Storage Compound	Hydrocarbons (F2 20000 ppm, F3 13,000 ppm)	Soil	130	Contained within rock berm
Mill/Assay Buildings	Hydrocarbons, metals (F2 5,300 ppm F3 8,200 ppm, various metals including arsenic 379 ppm, lead 2750 ppm)	Soil	5 PHC, 25 metals 40 co- contaminated with metals and hydrocarbons	Highest metal levels recorded inside mill building. Approximately 40 m ³ of the metal impacted material is co-contaminated with hydrocarbons
Garage	Hydrocarbons (F2 730 ppm, F3 19,000 ppm, F4 5,900 ppm)	Soil	150	Delineation to the south in the waste rock was not achieved
Muskeg area below rock piles	Hydrocarbons (F3 2,500)	Soil		Only detected in one sample collected at a considerable distance from site
Ida Bay				
Sediments in Ocean	Metals	Sediments	<20 m ³	Below waste rock piles

The investigation completed at the Roberts Bay minesite identified a number of contaminants within soils that will require some form of remedial activity. The remedial options differ for each type of contaminated material however they typically range from excavation and offsite disposal or onsite treatment/land filling. The following table presents a brief summary of the remedial options as well order of magnitude cost estimates.

Summary of Remedial Options

Environmental Concern	Volume (m³)	Remedial Options	Estimated Costs	Comments
Roberts Bay				
Hydrocarbon Contaminated Soils (Mill, and Garage and Fuel Bladder Area)	325	Offsite Disposal	\$375,000	Containerize, ship offsite and disposal at an approved facility in Alberta.
		Disposal in an onsite engineered land filled	\$175,000 Plus landfill monitoring costs	Disposed of in an onsite landfill in a separate cell than the metal contaminated soils
		On-site land farming and treatment	\$130,000 Plus monitoring costs	Land farming process is slow, may potentially require some equipment to remain onsite for an additional year or two after site decommissioning is complete
Metal Contaminated Soils (high concentrations) around the Mill Building	65	Offsite Disposal	\$83,000	Containerize, ship offsite and disposal at an approved offsite landfill facility
		Disposal in an onsite engineered land fill	\$48,000 Plus monitoring costs	Disposed of in a separate cell in the hazardous waste landfill. Some soils are co-contaminated with hydrocarbons.
Ida Bay				
Metals in sediments	20	Excavate waste rock sediments from ocean and move waste rock away from shore areas	\$25,000	Remove from shoreline and place in waste rock stockpiles away from shoreline areas

2.0 INTRODUCTION

Canada's north contains many federal contaminated sites. The Department of Indian and Northern Development (DIAND) is responsible through the Northern Contaminated Sites Program (CSP) to manage a number of contaminated properties that are no longer maintained by the original occupant. DIAND's inventory of contaminated sites in the northern territories originate from military, mining and oil and gas activities. The Roberts Bay Silver Mine and the Ida Bay Silver Mine are two abandoned mine sites that are included in the inventory that DIAND is responsible for site and remediation. The following is the Earth Tech Site Assessment and Waste Audit Report based on field work completed between August 15 and August 22, 2005.

2.1 Background Information

The Roberts Bay Mine site is located on the south side of the Melville Sound, approximately 115 km southwest of the community of Cambridge Bay. The Ida Bay site is approximately 7 km northeast of the Roberts Bay site and is located on the shore of Melville Sound. The approximate coordinates of Roberts Bay are 68° 10' 45" N, 106° 33' 29" W and the site location is shown in Figure 1.0 and the general layout of the main developed portion of the site is presented in Figure 2.0 (Appendix A).

Based on the information presented in the report titled 'Preliminary Assessment of Robert and Ida Bay Mine Sites' prepared by Rescan Environmental Services Ltd. in 2003, the following is a brief historical summary of the two sites.

Roberts Bay

- Discovery of the silver deposit in 1964
- Exploration activities until 1972
- Commencement of mining activities in 1973, by Hope Bay Mines, including the advancement of a 120 m long decline yielding 10 tons of hand sorted ore.
- 1974 expansion of Roberts Bay Mine with the construction of a 50-75 ton/day mill
- Closure of mine in 1975 after yielding a total of 74,500 ounces of silver
- Additional exploration activities in the area of Roberts Bay continued in the 1980's and 1990's.

Ida Bay

- Discovery of the deposit at Ida Bay in 1965
- Exploration activities until 1972
- Commencement of mining activities at Ida Bay in 1973 including the advancement of a 180 m long decline yielding 10,000 ounces of high grade silver.

2.2 Site Descriptions

2.2.1 Roberts Bay

The Roberts Bay site is approximately 1 km north of the western end of Roberts Lake and approximately 1.5 km east of Melville Sound. For this investigation, Roberts Lake was used as a landing site by a float plane and access to the abandoned mine was achieved by following a road along a basaltic ridge that leads to the site approximate 1 km north and 100 m higher in elevation than Roberts Lake.

The area around the site is dominated by the presence of a number of ridges and outcrops to the east and north. Surrounding the site and located between the ridges are numerous low/wet muskeg areas and small lakes and ponds. The majority of the developed areas of the site drain in a prominent drainage course to the south towards Roberts Lake. Some areas of the site (i.e. areas west of the camp dump) drain to the west.

The developments on the site consist of an adit, shaft, covered raise, tailings pond, waste rock piles, remains of the mill, assay and garage buildings, fuel storage compound, equipment storage area, barrel storage shed, camp and dump area. A small lake north east of the site was used as a water source. All of the developed areas of the site are either situated on level pads constructed of waste rock or on native fill material. Field observations indicated the pad varies in thickness from approximately 150 mm to several meters (south of the garage) in thickness. The mill, assay and garage buildings were all constructed on waste rock pads. Figure 2, shows the approximate extent of the waste rock fill around the Roberts Bay site. The Mill and Assay buildings contain much of the original ore process equipment, while scattered around the site are various types of used equipment, debris, equipment parts and waste. The remains of an exploration camp are also located near the shore of Roberts Lake. Photo 1 in Appendix B presents a 1982 aerial photograph of the site and Photos 1-3 in Appendix C present an aerial overview of the Roberts Bay site (taken in 2005).

2.2.2 Ida Bay

The Ida Bay site is approximately 7 km north east of the Roberts Bay site and is located on the shore of small bay facing Melville Sound. For this investigation, the Ida Bay site was accessed with ATV's following a faint trail from the Roberts Bay site and via helicopter. Photo 2 in Appendix B presents a 1982 aerial photograph of the Ida Bay site and Photo 4 in Appendix C presents an aerial overview of the Ida Bay site (taken in 2005).

The only developments at the former Ida Bay mine site is an open adit, a partially covered vent raise, rock piles and scattered debris located around the site. Waste rock at this site was observed adjacent to the ocean and below the high tide level.

2.3 Previous Environmental Investigations

2.3.1 General

The following is a brief summary of the background reports that were available for review. Excerpts of these reports are reproduced in Appendix G. The scope of work for the 2005 investigation completed at the Roberts Bay and Ida Sites was based on the findings and conclusions of the 2003 Rescan Environmental Services Ltd. report since the 2004 Rescan Phase I/II report was not available prior to the completion of the field work.

2.3.2 Vista Engineering Survey/Inspection

In 1986, Vista Engineering completed a survey/inspection of the Roberts Bay mine site. This inspection of the site produced a preliminary inventory of all abandoned waste materials including the quantities of potentially hazardous chemicals that were located in the remains of the buildings. Items of note that were observed at the site included drums of ore processing chemicals, floatation chemicals, lime, nitric acid, carbonate, lead acid batteries, lube oil, and 500 m of detonation cord. This inspection also indicated that the tailings pond was lined with polyethylene.

2.3.3 Preliminary Assessment of the Roberts Bay and Ida Bay Abandoned Mine Sites

Rescan Environmental Services Ltd. completed an assessment of both the Roberts and Ida Bay sites in 2003. The purpose of this assessment was to assess the stability of the mine workings, determine locations of waste rock piles and tailings areas, and determine the potential for acid rock drainage or metal leaching concerns.

Roberts Bay

This assessment concluded that there was no evidence of on-going acid rock drainage at the Roberts Bay site, however based on the analysis of a limited number of waste rock samples, this report indicated that there is a potential to generate acid drainage from some of the waste rock at this site. In addition this report concluded that arsenic leaching may be potential problem in the future based on the results of a leachable metal samples collected from the tailings pond. This report recommended that all waste materials at the site be collected and land filled, all mine openings be securely closed and that additional studies be completed to determine if there are any impacts from the tailings impoundments and waste rock piles.

Ida Bay

This report recommended that closure measures be developed and implemented for this site and that additional investigation be completed to confirm that there have been no impacts from acid drainage and metals leaching. Additional recommended activities included the collection and disposal of all waste materials and all mine openings be securely closed.

2.3.4 Phase I/II Environmental Site Assessment Roberts Bay Mine and Ida Bay Deposit Nunavut

This report was prepared by Rescan Environmental Services in 2004 for Public Works Government Services Canada. This report restated the results from the previous 2003 and also included a Phase I/II ESA of both mine sites. The results from the Phase II ESA at the Roberts Bay site identified a total of 225 m³ of hydrocarbon impacted soils in the vicinity of the mill, garage and around the fuel storage area. Elevated metal concentrations in soils above criteria were also encountered however, it was reported that these values were similar to the metal concentrations found in the waste rock piles. This assessment also estimated 305 m³ of non-hazardous waste materials and hazardous materials were limited to barrels of fuel, oil, grease, compressed gas cylinders, lead acid batteries, one suspect electrical transformer and the unlabelled barrels located at the barrel storage area.

Based on the scope of investigative work completed at the Ida Bay site, no contaminated soil or water was identified at Ida Bay and only 8 m³ of waste (non-hazardous) was identified at this site.

2.3.5 Screening Level Human Health Risk Assessment for the Roberts Bay and Ida Bay Mine Sites

This report was prepared by Senes Consultants Ltd. in 2004 for Indian and Northern Affairs Canada. The conclusions of this risk assessment were based on the information presented in the 2004 Phase I/II ESA of both sites prepared by Rescan Environmental Services. The screening level risk assessment included the following elements.

- Receptor characterization
- Exposure assessment
- Hazard assessment
- Risk characterization.

This report summarized the screening level assessment for human health. The risk assessment was undertaken to determine whether there are contaminant levels present that may have an adverse effect on humans.

2.4 Scope of Work and Objectives

In 2003, a previous environmental investigation was completed at both the Roberts Bay and Ida Bay Mine Sites. The intent of the 2005 investigation program was to build upon the information obtained from the previous programs, fill in the data gaps and to collect sufficient information that will allow for the development of a remedial plan for these sites.

The objectives of this environmental site assessment include the following:

- Assess water quality (surface and groundwater);
- Identify, characterize and quantify all hazardous and non-hazardous materials at the site;
- Identify and delineate areas of potential environmental concern at the site;
- Geophysical Assessment of potential dump sites and other disturbances;
- Investigate and delineate the dump and debris storage areas;
- Investigate borrow sources and possible landfill locations; and
- Increase community and Inuit involvement in the program.

In order to develop a remedial plan for both the Roberts Bay and Ida Bay sites PWGSC is required to complete further assessments at the two sites. The assessments include the following components:

- Geochemical and Mine Opening Assessment - completion of an investigation to determine methods to properly secure all mine openings and to determine if there are any impacts due to acid drainage or leaching of metals.
- Risk Assessment – completion of ecological human health risk assessment based on the contaminated levels determined in the contaminant investigation program.
- Remedial Design – based on the results of all the above programs a remedial design will be completed.

The scope of work for the Earth Tech project was to conduct the site contaminant assessment, waste audit, geophysical and geotechnical assessments of the two sites as outlined in the Terms of Reference prepared by PWGSC-Environmental Services, Western Region. The scope of work also included the development and implementation of a Site Specific Health and Safety Plan. Earth Tech was one of four engineering consultants who collected data during the field program at this site. The other consultants consisted of UMA Engineering (Risk Assessment), EBA Engineering who completed the geophysical assessment as a sub-consultant to Earth Tech and AMEC (geochemical, mine opening assessment, site survey and remedial options evaluation).

This report presents the results of the contaminant assessment while the results of the waste assessment and the geotechnical/geophysical assessment are presented in separate bound reports.

3.0 EARTH TECH WORK COMPLETED

3.1 Methodologies

The following is a summary of the investigation protocols and methodologies, which were used during the completion of this assessment program.

Soil Sampling

In total, Earth Tech collected soil samples at approximately 50 different locations to a depth of up to 1.5 meters where permitted. All soil samples were collected from hand augered testholes, or from testpits excavated with a shovel or with a small ATV mounted hydraulic excavator. Due to surface conditions, some areas of the site were not accessible by the excavator; therefore, the majority of the testpits were excavated by hand.

During the testpit excavation operation, all soil samples obtained were carefully trimmed to remove surface contamination, minimizing the potential for cross-depth contamination during the sampling process. Samples were handled with fresh nitrile or latex gloves for each location. Soil sampling equipment were cleaned with a wire brush as outlined in the ASTM Designation D 5088-90, "Standard Practice for Decontamination of Field Equipment Used at Non Radioactive Waste Sites".

Testpit observations were recorded and soil samples taken from the fill stratigraphy at 0.3 m intervals as well as at the bottom of the active layer. All sample locations were marked with UV resistant stakes with labels in order to assist in any follow up remedial activity at the site.

Earth Tech's previous experience on other northern contaminated sites has shown that the effectiveness of GasTech style field screening meters are limited due to the age of the petroleum products; therefore a field screening meter was not used during the completion of the field work. Selected soil samples were sent for analysis for various contaminants including PCBs, Hydrocarbons (BTEX and F1-F4 fractions), PAHs pesticides and metals.

Sediment Sampling

The field sampling program also included the collection of ten sediment samples from Roberts Lake and from along Ida Bay shoreline. All sediment samples at Roberts Bay were collected with an Eckmann sediment dredge while the samples from Ida Bay were collected in near shore areas with a shovel. Access to areas of the Roberts Lake was provided with the use of an inflatable boat equipped with a 15 hp outboard motor.

Surface Water/Groundwater Sampling

Surface water samples were also taken at various locations around the site. A total of eight water samples were collected and submitted to the lab for analysis. Water samples were collected with dedicated water sampling equipment installed in monitoring wells or they were collected directly into the sample bottles from the surface water source. The water samples were collected and stored in laboratory supplied bottles and coolers until delivery to the laboratory.

Sample Submission and Analysis

Soil, sediment, surface water and groundwater samples were collected in laboratory-supplied jars, bottles and bags (depending upon the parameters to be analyzed), and stored in coolers until their delivery to a CAEAL certified laboratory (Enviro-Test Labs in Edmonton) for analysis. Fresh nitrile or latex gloves were utilized for each sampling location. Samples were placed in coolers prior to offsite shipping.

3.2 Site Identification

In preparation for the field sampling program, Earth Tech reviewed the 2003 Rescan report to identify areas where contaminants had been previously identified and where further lateral and vertical delineation was required. Proposed testpit locations were plotted on old site plans as visualize the location of samples, number of samples and the contaminant(s) of concern.

Once onsite, Earth Tech's first task was to map out the location of past sample points by conducting a reconnaissance walk over the site. The proposed testpit locations were then reviewed to determine whether site influences such as topography and geology would govern moving the testpits to a more suitable location. Once the testpit locations were finalized, an Earth Tech survey pin equipped with a numbered tag was placed in the ground at the sample location. Previously documented protocols were followed once the testhole locations were identified.

Soil sampling conducted on site involved delineation of heavy metal and hydrocarbon impacted areas as well as sampling for PCBs, PAHs, and pesticides. Although heavy metals cannot easily be identified in soils by visual observations, they are often associated with hydrocarbon staining. Surface staining was used to aid in identifying the outer limits of impacted soils.

3.3 Health and Safety

A detailed Health and Safety Plan was prepared for this field program. A copy of this plan was submitted to PWGSC for their information and review. While onsite Earth Tech participated in a daily safety with all other field staff. Records of this meeting were kept by AMEC staff. Earth Tech staff also completed their own safety meetings and hazard assessments to meet internal Earth Tech procedures.

4.0 RESULTS OF SITE INVESTIGATIONS

4.1 Summary of Investigated Areas

The following table presents a brief summary of the areas that were investigated during the completion of the environmental assessment at the Roberts Bay and Ida Bay sites.

Table 4.1 Summary of Investigated Areas

Location		Potential Contaminants	Comments
Roberts Bay	Background Locations		Background soil and surface water conditions
	Fuel Storage Area	Hydrocarbons	Hydrocarbon impacts previously identified
	Mill/ Assay Building	Hydrocarbons, metals, PCBs	Hydrocarbon impacts previously identified
	Barrel Storage Area	Hydrocarbons, metals	
	Garage Area	Hydrocarbons, metals, PCBs PAHs	Hydrocarbon impacts previously identified
	Muskeg area downgradient of waste rock piles	Metals, hydrocarbons	Sheen previously observed on surface waters
	Camp Area and Dump	Hydrocarbons, metals, PCBs PAHs, pesticides	Hydrocarbon impacts previously identified
	Roberts Lake	Metals	Sediment sampling
Ida Bay	Background Locations		Background soil and surface water conditions
	Adit	Hydrocarbons	
	Camp Area	Metals	
	Ida Bay Shoreline	Metals	Sediment sampling

4.2 Roberts Bay

4.2.1 Background Conditions

To help determine background soil conditions at Roberts Bay two sample sites were selected (both approximately 250 m from the developed area of the site). The sites were located in areas up gradient of the site and at elevations similar to the mine site. The two sample locations were labeled as ET1157 (north of the site) and (ET1158 southeast of the site). The two background locations are also presented in Photos 5 and 6 (Appendix C). It should be noted that waste rock was not located at the two background locations. One soil sample from each testpit location was collected immediately below the overlying organic layer and was analyzed for metals. Table 1 in Appendix D presents the results of the analysis for these background samples. The analysis indicates that all soil parameters were less than the CCME residential parkland criteria.

4.2.2 Fuel Storage Area

The main fuel storage compound was located in an area north of the adit (Figures 2 and 3). The storage system consisted of two rubber bladder tanks (15,000 L each) surrounded by a rock berm (Photos 7 and 8). The berm was constructed with waste rock consisting of approximately 30 cm minus material. Plywood sheets and two layers of heavy duty poly (approx. 9 mil) were also located below the bladders and on top of the underlying native materials. In 2003, Rescan completed a limited investigation at this site and based on their findings, 195 m³ of hydrocarbon impacted soils was estimated to exist at this site.

All of the piping associated with the bladders had been previously removed. Threaded pipe connections were noted on the east end of the bladders. Field observations indicated that a small amount of liquid (potentially fuel or fuel/water mixture had collected at the lower end of the bladders. This volume was estimated at 300 L.

The scope of work for the 2005 investigation included the excavation of a total of 3 testpits within the berm (sample locations ET 1151, ET 1152 and ET 1153) and 3 testpits excavated in areas outside of the containment berm (ET 1154, ET 1155 and ET 1156) and in areas that would receive runoff from the fuel storage compound in the event that the berm overflowed. Figure 3 shows the locations of testpits at this site. Selected soil samples from the testpits were analyzed for hydrocarbons (BTEX, F1-F4 fractions) and two samples were also analyzed for PAHs. Table 2 and 3 in Appendix D presents a summary of this data. For presentation purposes, the data obtained in the 2003 investigation is also reproduced on this summary table. This data has also been compared to the updated 2004 CCME BTEX criteria for consistency purposes.

The subsurface materials in this area consisted of silts with minor amounts of clay. Wet to saturated conditions existed between the depths of 0.20 m and the base of each testpit (approximately 0.55-0.60 m). Permafrost conditions were encountered at depths greater 0.60 m. Immediately after excavation the testpits filled with perched groundwater.

A review of the analytical data indicated that exceedances above CCME residential parkland criteria was detected in ET1151, ET1152, ET1153, all of which were located within the confines of the berm. The parameters that exceeded the CCME criteria included ethylbenzene, xylene, and the CWS fractions, F1, F2 and F3. The highest concentrations recorded for the F2 and F3 fractions were situated at the downgradient end inside the berm. Vertical delineation within the berm was not achieved due to the hydrocarbon concentrations exceeding CCME criteria at the depth of permafrost (approx. 0.6 m). There were no exceedances above CCME criteria in any of the testpits located outside of the containment berm. Figure 3 shows the approximate extent of the hydrocarbon impacted soils at this site. Based on the data collected from this investigation and from the 2003 investigation, the volume of hydrocarbon impacted soils at this site is estimated at 130 m³ (slightly lower than the 2003 estimate of 195 m³). This estimate assumes that all the soils within the berm are impacted with hydrocarbons to a depth of 0.60 m.

4.2.3 Mill/Assay Buildings

The Mill/Assay building was the primary location where chemicals were used and the ore material was processed. Based on the inventory of chemicals that were found at the site and from the equipment remaining in the mill, the silver was extracted from the ore using a floatation process. The location of the two buildings is presented on Figure 4. Photos 9-15 present photographs of the Mill and Assay building as well as the adjacent Tailings Pond. Both the Mill and Assay buildings are constructed on a waste rock pad that extends towards the north. An ore hopper, cone crusher and various types of other debris have been discarded on the pad. The skid mounted crusher does not appear to be located at its original location since it was likely originally located in close proximity to the coarse hopper and to an electrical power supply. Various amounts of fines from rock crushing was observed on the ground surface in and around the Mill building

Equipment in the Mill consisted of ore process equipment (ball mill, tank, flotation cells, and electric motors). A large electrical panel was also located along the north wall of the Mill building. The panel was equipped with dry style transformers, various types of switch gear, and electrical cables of various gauges. Three capacitors labeled as containing PCBs were also located at the east end of the panel.

It is envisioned that this facility used a diesel powered electrical generator. The former location of the generator is unknown however, based on the size of the electrical panel and gauge of electrical cables leading into the panel, it is assumed that the generator may have been located in an area near the panel (i.e. near the northwest corner of the Mill). The 2004 Rescan Phase I report also indicated that generators were present in the Mill.

The 2003 investigation in the Mill area was limited to the collection of one soil sample from a surface stain in the southwest corner of the Mill. The analysis of this sample indicated exceedances of the F2 and F3 hydrocarbon fractions as well as exceedances above CCME criteria for the metals arsenic, chromium, copper, lead, nickel and silver.

Surficial materials in this area typically consisted of up to 150 mm thick layer of sand, gravel and/or crushed rock on top of native materials including bedrock. Crushed ore/waste tailings were also located on the ground surface in the floor of the Mill. The gradation of the waste rock varied from cobble sized materials to fines consisting of sand sized and smaller sized particles. Based on field observations fine grained materials could be located on the ground surface in most areas with waste rock used as fill.

The scope of work in the 2005 investigation included the hand excavation of 12 testpits inside and around the perimeter of these two buildings. Selected soils samples from this area were analyzed for hydrocarbons, metals, PCBs and PAHs. The analytical results are presented in Tables 4-7 in Appendix D.

A total of four samples were analyzed for PCBs, these samples were collected both upgradient and downgradient of the electrical panel. ET 1165 was collected in an area immediately below the PCB containing capacitors in order to confirm this area had not been impacted from the release of PCBs. Samples ET 1160, ET 1161, ET 1163, ET 1164 and ET 1166 and ET 1173 were installed around the perimeter of the building to confirm hydrocarbon and metal concentrations. ET 1162 was located below a metal frame in the assay lab and sample ET 1168 was collected on the ground surface at the base of the floatation cells and in an area where spillages of processing chemicals and semi-processed ore could occur. ET 1159 was located at the base of a draw that would receive surface runoff from the Mill/Assay building area.

A total of eight soil samples were analyzed for hydrocarbons. The analysis indicated that the only samples with hydrocarbon (F2 and F3 fractions) exceedances above criteria were located at ET 1162, ET 1164 and in ET 1167. The 2003 investigation had previously confirmed the presence of hydrocarbon contaminated soil in the stained area in the south west corner of the mill. As indicated on Figure 4, a hydrocarbon plume is located along the western end of the Mill Building. The northern extent of the plume was not established with analytical however the northern extent of the plume was estimated based on the dimension of an observed surface stain in this area. A smaller plume is also located at the west end of the assay building. Since the bedrock is near the ground surface in this area, the maximum depth of contamination in the fill is limited. Based on the information obtained in this investigation, it estimated that they may be approximately 45 m³ of hydrocarbon impacted soils at this location

As shown in Table 6, the PCB analysis for all samples was less than the CCME remediation criteria with the majority of the analysis being below the laboratory detection limits.

Overall, at least one metal parameter exceeded CCME criteria in nine of the twelve samples analyzed. The highest metal concentrations at the site were recorded in the eastern end of the Mill building (ET 1165 and ET 1168), in a sample located outside the north wall (ET 1163) and in a sample collected in the western end of the assay building. The highest metal concentrations were recorded near the floatation cells (ET 1168). The very high metal concentrations recorded in ET 1168 included the following parameters; arsenic (379 ppm vs. CCME criteria of 12), copper (652 ppm vs. CCME 63), lead (2750 ppm vs. CCME 140), nickel (360 ppm vs. CCME 50), silver (2920 ppm vs. CCME 20) and zinc (780 ppm vs. CCME 200 ppm). Very high metal concentrations were also recorded in a duplicate sample to ET 1168 (labeled ET 1068).

To help determine if there was a potential for the waste rock fines to generate metal containing leachate and to determine if the fines would be considered as hazardous waste, two additional analytical tests were completed (British Columbia Ministry of Mines shakeflask test as well as the TCLP leachate analysis).

The shakeflask test is used as a screening tool to identify key elements that may potentially be a concern under a worst case leachate generating situation. Due to the testing method, leachate is generated from the samples under conditions that don't actually reflect site conditions; therefore, the shakeflask results are not truly comparable to guidelines such as CCME freshwater aquatic criteria (FWAL). For discussion purposes, CCME guidelines are often used to help identify potential elements that may be a concern. Table 40 in Appendix D presents a summary of the analytical results. The shakeflask testing was completed by Vizon Scitech from Vancouver and a copy of their analytical report is reproduced in Appendix F. These results indicated that some elements (aluminum, arsenic, cadmium, copper, lead, silver and zinc) were higher than CCME FWAL values; however the elements of aluminum, cadmium, silver and zinc were generally within similar orders of magnitude of the CCME values. Three elements with leachate values greater than one order of magnitude above the CCME criteria for all analyzed samples included arsenic and copper. Generally the highest metal concentrations for all parameters were recorded in the samples collected from inside the Mill building (ET 1165 and ET 1168); however, samples collected from the camp area (ET 1175) as well as from near the garage (ET 1113) also had exceedances above CCME criteria. Based on this information the waste rock fines have the potential to generate metal containing leachate under specific conditions.

To classify the fines situated in the waste rock as hazardous or non-hazardous, samples were submitted for the determination of leachable metal concentrations using the TCLP method. For comparison purposes this data was compared to Table 2 of the Alberta Users Guide for Waste Managers. According to the Alberta Waste Control Regulation, TCLP concentrations that exceed Table 2 levels need to be disposed of as hazardous waste. Table 39 in Appendix D presents a summary of the analytical results for the TCLP analysis that was completed on selected waste rock fines collected from inside the Mill building (ET 1168) as well as from the former camp location (ET 1175). As presented in Table 39, concentrations of both mercury and nickel from sample ET 1168 exceeded the Alberta criteria; therefore, in Alberta the material represented by this sample would be considered as hazardous waste. The TCLP leachate analysis from the sample from the waste rock fine material in the camp area (ET 1175) did not have any metal parameters above laboratory detection limits; therefore, this material would not be classified as hazardous waste.

Based on the scope of work of this investigation, the extent of the fill materials (waste rock) with very high metal concentrations above CCME criteria was not confirmed in the area north of the Mill (towards the hopper). Due to the process of treating ore in the Mill, it is assumed that heavy metal fines will be concentrated below the Mill process equipment and in the immediate vicinity of the building. Assuming a maximum depth of fill below the Mill of 0.3 m the volume of soils with very high metal concentrations is estimated at 65 m³. This volume should be considered as conservative since the entire thickness of waste rock in this area does not consist entirely of fines.

4.2.4 Barrel Storage Area

Located south of the Mill and tailings pond, is a wooden shed that is being used to store barrels of mill process chemicals, containers of grease and lead acid batteries. The location of the shed is presented in Figure 4. A number of barrels containing waste slag from the assay lab and two wooden crates containing covered barrels were located on the north side of the shed. Photos 16-19 present the layout of the around and below the barrel storage shed and tailings pond.

As was encountered around the Mill and Assay Buildings, surficial materials in this area typically consisted of 150 mm thick layer of sand, gravel and crushed rock on top of native materials including bedrock. Waste tailings were also located on the ground surface around and below the shed.

A total of six testpits were excavated around the perimeter and downgradient of the shed. Selected soils samples were analyzed for hydrocarbons and metals. Analytical data for the samples collected from this site are presented in Tables 8 and 9 in Appendix D. The 2003 investigation did not collect any samples from area.

The analytical data indicated that the hydrocarbon concentrations were below the CCME criteria with the only detectable concentrations being the hydrocarbon F2 and F3 fraction in ET 1169 and F3 in ET 1170. Analysis of metal samples from all samples analyzed indicated exceedances of at least two metals in all analyzed samples. The metals that exceeded criteria in at least one sample included: arsenic, barium, chromium, copper, lead, nickel, silver and zinc. It was also noted that the elevated metal concentrations at this site were similar in value to the concentrations recorded in other areas where waste rock had been used as fill materials.

4.2.5 Camp Area and Dump

The former camp site is approximately 74 m downhill from the Mill building as indicated on Figures 4 and 5. The Camp consisted of the remains of approximately 9 buildings. These buildings were used for bunkhouses, kitchen, and wash facilities. A large amount of scattered debris (wooden building remains, furniture, waste materials is littered and windblown around the site. Immediately west of the camp was a small dump surrounded with a waste rock berm. Waste materials observed in the dump included rusted tin cans, glass bottles, and burned wastes. Waste rock materials were also observed at the north end of the camp area. Photographs of the former camp and dumpsite are presented in Photos 20-23.

A total of eight testpits were excavated within the camp site and surrounding the dump. Selected soils samples from the testpits excavated around the camp area and dump site were analyzed for hydrocarbons, PAHs, metals, PCBs and in areas where used pesticide containers were deposited; selected samples were also analyzed for pesticides. Analytical data for the samples collected from the former camp and dump site are presented in Tables 10-14 in Appendix D. For information purposes, the limited amount of analytical data obtained in the 2003 investigation in this area is also reproduced in the analytical summary tables.

The analytical data indicated that the hydrocarbon concentrations for PCBs, PAHs, herbicides, BTEX and F1 and F2 fractions were below the laboratory detection limits. Detectable concentrations for the F3 and F4 parameters were recorded in all samples analyzed however they were below CCME residential parkland criteria. The 2003 investigation had previously reported non detectable hydrocarbon concentrations in one sample collected from the dump and one from the camp site.

Subsurface conditions in this area of the Roberts Bay site consisted of waste rock, gravel and sands in the camp area and native silty materials located downgradient of the dump site.

As shown in Table 10, the metal analysis indicated exceedances of arsenic, barium, copper and lead in sample ET 1175 located in the camp site. An exceedance of silver was also recorded in the sample recovered downgradient of the site (ET-1182). Other than the elevated metal concentrations recorded in ET 1175, similar metal concentrations (all within the same order of magnitude) were noted between the metal data at this site and the background concentrations. The 2003 investigation in the camp area included the analysis of one sample for metals (RBSM-Camp1). Exceedances above CCME residential criteria for arsenic, chromium, copper, molybdenum, selenium and silver were reported in this sample. It was noted that the metal concentrations recorded in this sample were similar to the metals concentrations recorded in the waste rock samples.

4.2.6 Garage Area

The former garage consisted of a simple metal framed/trussed building, immediately south of the adit. Remains of the cloth fabric used to cover the roof and walls of the building are scattered around the site. Used equipment is stored in areas west, south and east of the garage. Crushed waste rock was used to level the area surrounding the garage site. Waste materials consisting of vehicle and equipment parts, hoses, wire, hydrated bags of concrete mix, lumber, scrap steel, work benches, and an electrical panel were located inside the building. A square steel tank (potentially used for fuel storage) was also located outside the south east corner of the building. Various types of waste materials including partially full barrels of oils were also located outside the building. Evidence of a surface stain was visible in the center of the building as well as immediately to the south.

The Garage location is presented on Figure 4 and Photos 24-27 show the contents of the buildings and in the storage area to the east. The 2003 investigation at this site consisted of the excavation of two testpits in the underlying materials below the garage floor. The analysis of samples collected from these samples indicated exceedances above CCME residential parkland criteria for hydrocarbons (F2-F4 fractions) as well as metals (arsenic, chromium, copper, lead, nickel, zinc and silver). Non-detectable PCB concentrations were also recorded in four samples.

Due to the rocky/course nature of the waste rock materials used in the construction of the underlying pad, the maximum depth of excavation in the Garage area was limited to depths less than 15 cm. The subsurface materials consisted of crushed rock with various amounts of fines and sand sized materials. Based on field observations, the thickness of the waste rock pad at the south end of the garage may exceed 1 m. Perched groundwater was not encountered in any of the hand excavated testpits.

The 2005 investigation at this site consisted of the excavation of three testpits and the analysis of samples for hydrocarbons, PAHs, and metals. One of the testpits was located inside the Garage (ET 1111) as second testpit was located south of the aboveground tanks in an area with filters (ET 1112) and a third testpit (ET 1113) was excavated in an area further to the east where waste equipment including used oil and air filters had been discarded.

The analytical results (presented in Tables 15-18) confirmed that there were no environmental concerns for PAHs or PCBs in the samples selected for analysis. Exceedances above CCME residential criteria for hydrocarbon fractions F2, F3 and F4 were detected in ET 1111 and F3 and F4 in ET 1112. Very low to non detectable concentrations for hydrocarbons were detected in ET 1113. Data collected in the 2003 Rescan report also indicated hydrocarbon contamination in the area of the Garage. Due to the rock to cobble sized materials located below the garage building, the maximum depth of hydrocarbon contamination below and south of the building was not established. Assuming a maximum depth of impacted soil at 1.0 m the volume of hydrocarbon impacted soils is estimated at approximately 150 m³.

As indicated in Table 17, metal exceedances above CCME criteria were detected in samples collected in all three testpits as well as in the samples analyzed in the 2003 investigation. The metal concentrations in all samples analyzed were all higher than the range of values recorded in the background samples. All metal concentrations were all relatively consistent and are likely indicators of natural conditions in the waste rock that was used for fill material.

4.2.7 Muskeg Area below Waste Rock Piles

Located below the garage and waste rock piles is a muskeg area that receives all the surface runoff from the developed mine area. The 2003 investigation had previously observed a hydrocarbon sheen on surface waters collected in this area. Photos 28-31 show the layout of the Muskeg Area below the waste rock piles.

The scope of work for this investigation included the excavation of a total of 4 testpits (figure 6) in this area and the analysis of a total of four samples for hydrocarbons and metals, two samples were also analyzed for PAHs and one sample for PCBs. Tables 19 and 22 in Appendix D present a summary of the analytical data from this area. These tables indicate that the PAH, PCB, BTEX and F1 and F2 parameters were all below the laboratory detection limits. Elevated concentrations of the hydrocarbon fractions F2 and F4 were detected in ET 1101; however they were below remedial criteria. Elevated concentrations of the hydrocarbon fraction F3 were also detected in the same sample in (ET 1101), however this concentration (2500 ppm) exceeded the 2004 updated CCME criteria. Detectable amount of hydrocarbon fractions F3 and F4 were also detected in samples collected from ET 1108 and ET 1109. The high F3 concentration in the

sample collected in ET 1101 appears to be somewhat of an anomaly due to the distance it was located from the site and the lack of similar concentrations located upgradient. A chromatograph of this sample indicated that the hydrocarbon was potentially a lubricating oil since it was concentrated around C32. A copy of this chromatograph is reproduced in Appendix D.

Comparison of metal data to CCME criteria indicated that the only exceedance above residential parkland criteria was chromium in ET 1101. This chromium concentration was 73.5 ppm vs. a criteria value of 64 ppm. Similar metal concentrations (all within the same order of magnitude) were noted between the metal data at this site and the background concentrations.

4.2.8 Surface Water Sampling Program

The surface water sampling program consisted of the collection of a total of eight surface water samples from the following locations;

- Roberts Lake,
- unnamed lake upgradient of Roberts Lake (next lake to the south) for background conditions,
- lake used as the water source for the Mine (lake north east of shaft),
- north of the fuel bladders
- small creek draining into Roberts Lake located at the base of the main drainage course below the mine (stream mouth),
- muskeg area at the base of the waste rock piles (SW-01)
- below the tailings pond (SW-02), and
- below the camp dump (SW-03).

Figure 8 shows the locations of each surface water sample location. Selected samples were submitted for the analysis of hydrocarbons, PCBs, pesticides, routine water chemistry and metals (total and dissolved). The parameters that were analyzed were dependant on the sample location and the potential contaminants in the area. Tables 23-27 present a summary of the analytical results from all the surface water samples analyzed. Field parameters recorded included pH, electrical conductivity, temperature and GPS coordinates, copies of the field data for each sample point are presented in Appendix E.

Due to the number of empty 4.5 L (1 gallon) containers labeled as containing pesticides, the surface water samples from SW-01 and SW-03 were both analyzed for organo-chlorine pesticides. The analysis of both of these water samples (Table 24) indicated that pesticides were below detection limits.

As presented in Table 25, hydrocarbon and PCBs concentrations were also below detectable levels in samples collected north of the fuel bladders, Roberts Lake, SW-01 and SW-03 as well as in the background sample.

Tables 26 and 27 present a summary of the dissolved and total metal analysis. These tables show that aluminum, copper and selenium, commonly exceeded CCME freshwater aquatic life criteria (FWAL) in the total metal samples and copper, silver and selenium exceeded FWAL criteria in the dissolved metals analysis. It was also noted that the background sample had the highest recorded total metal concentration for aluminum and selenium. A review of the total and dissolved metal concentrations has shown that there are very similar concentrations for all metals in all samples with no samples showing drastically different metal concentrations or being orders of magnitude above background or above criteria values.

4.2.9 Sediment Sampling Program

In order to confirm sediment conditions in the bottom of Roberts Lake a total of five samples were collected. Three of the samples were collected near the base of the slope that drains the mine site area. One sample was collected from the middle of the Roberts Lake and the fifth sample was collected in the unnamed lake upgradient and south of Roberts Lake in order to determine background conditions. The background sample location was situated in an area that does not receive any runoff from the Roberts Bay mine site area. Recovered sediment samples were analyzed for hydrocarbons, metals, PAHs and PCBs.

As presented in Tables 28-31 in Appendix D, the analytical data indicated that benzene, ethylbenzene, xylene, F1 and F2 concentrations as well as the PAH and PCB compounds were reported at less than the laboratory detection limits and below the governing CCME criteria. Detectable concentrations of toluene as well as the hydrocarbon fractions F3 and F4 values were detected. It should be noted that the CCME has not established a criteria for hydrocarbon fractions in sediments.

The analytical metal concentrations indicated that the CCME arsenic criteria was exceeded in the background sample (Rob LK BKND) as well as in the QA/QC sample (Rob LK 04). The arsenic concentration in these two samples was 9.2 and 8.7 ppm respectively. The three samples collected at the base of the drainage area had the three lowest arsenic concentrations. Chromium also exceeded the CCME criteria in samples Rob LK01, Rob LK 03, Rob LK Background, Rob LK Middle and in the QA/QC sample Rob LK 04.

4.3 Ida Bay

4.3.1 Soil Conditions

Due to the lack of obvious environmental concerns and lack of historical information indicating areas of potential concern (i.e. locations of vehicle maintenance/refueling areas) at the Ida Bay site, the soil sampling program only included the collection of a limited number of samples. This program included one background sample, one sample was collected at the entrance to the adit and one sample was collected adjacent to a number of split open lead acid batteries in the former camp area. Photos of the Ida Bay site are presented in Appendix C. (Photos 32-38). The location of the Ida Bay investigation sites (Ida Adit, Ida 05, Ida Background) are also presented on Figure 7. As shown in Tables 32-34 in Appendix D there were no exceedances for hydrocarbons, PAHs or metals in any of the analyzed soil samples.

4.3.2 Sediment Sampling Program

In order to confirm sediment conditions in the bottom of Ida Bay a total of four samples were collected. Three of the samples were collected in an area immediately adjacent to a waste rock pile that located on the Ida Bay shoreline. Samples IDA 01, IDA 02 and IDA 03 were all collected at a depth of approximately 0.30 m below sea level at the time of sample collection. Sample IDA 04 was collected from the south side of Ida Bay to confirm sediment conditions in a background location. The background sample location was situated in an area that does not receive any runoff from the Ida Bay mine site area. Recovered sediment samples were analyzed for hydrocarbons, metals, PAHs and PCBs.

As presented in Tables 35-38 in Appendix D, the analytical data indicated that BTEX and F1 and F2 concentrations as well as the PAH and PCB compounds were reported at less than or at the laboratory detection limits and below the governing CCME criteria. Detectable concentrations of the hydrocarbon fractions F3 and F4 values were detected in the background sample (IDA 04). It should be noted that the CCME has not established a sediment criteria for hydrocarbon parameters.

A review of all the metal data showed the highest concentration was typically encountered in sample IDA01 (concentrations for arsenic, barium, lead, silver and zinc all were more than twice the background concentration). The analytical metal concentrations indicated that arsenic, chromium, copper and lead criteria was exceeded in sample IDA 01 as well as chromium in IDA 03, both of which were collected near the waste rock pile.

4.3.3 Summary of QA/QC

To determine the precision of the reported laboratory analytical results, Duplicate sample results were evaluated using the EPA Relative Percent Difference Method.

$$\text{Relative percent Difference (RPD)} = \frac{(X_1 - X_2) \times 100}{(X_1 + X_2) / 2}$$

Table 39 presents a summary of the QA/QC calculations for the duplicate metal samples.

Parameters exceeding the recommended RPD value of 20% for metals (inorganics) are indicated in bold. For all duplicate samples, the recommended RPD value of 20% was exceeded for at least 3 separate metal parameters. The RPD exceedance may be attributed to non-homogeneous contaminant dispersion within the soil that was sampled twice for duplication.

5.0 REGULATORY CRITERIA

The following presents a summary of the criteria that had been selected to be used for comparison purposes. This included the following criteria for the each media type.

- Soil - The results of the laboratory analyses for BTEX were compared to the most recent edition (2004) of the *CCME Canadian Environmental Quality Guidelines* – Residential/Parkland criteria. Specific criteria for fine and course grained soils were selected depending on the grain size of the impacted material. Hydrocarbon Fraction analysis was compared to the CCME Canadian Wide Standards for Hydrocarbons, Residential Tier 1 values.
- Water – *CCME Canadian Environmental Quality Guidelines* Freshwater Aquatic Life Criteria.
- Sediments – *CCME Canadian Environmental Quality Guidelines*. Samples from Ida Bay were compared to the Marine criteria while the samples from Roberts Lake were compared to the Freshwater criteria.
- Leachate – To classify the fines situated in the waste rock as hazardous or non-hazardous, samples were submitted for the determination of leachable metal concentrations using the TCLP method. For comparison purposes this data was compared to Table 2 of the Alberta Users Guide for Waste Managers. According to the Alberta Waste Control Regulation, TCLP concentrations that exceeded Table 2 levels need to be disposed of as hazardous waste.

6.0 FCSAAP SITE CLASSIFICATION SUMMARY

The National Classification System for Contaminated Sites (NCS) was developed by the CCME for the review and classification of contaminated sites in Canada. The NCS is a standardized method that uses site characteristics, site location and contaminant information to prioritize and classify the potential for adverse impacts. All relevant site information is stored in a national database in an effort to ensure funding for contaminated site clean up is allocated to sites with respectively higher potentials for adverse effects and impacts. As presented in the 2004 Rescan Phase I/II ESA report, a single NCS score of 85 (Class 1) was determined for these two sites.

In 2003, a subsequent classification system was developed in order to help classify FCSAAP related sites. Earth Tech completed a follow up classifications of both the Roberts and Ida Bay sites using the FCSAAP classification system. Based on the information presented in the guidance document for this method, a score of 63.4 was determined for Roberts Bay and a score of 56.9 was determined for the Ida Bay site. Copies of both FCSAAP evaluation form are reproduced in Appendix H. The main difference between the 2004 score and the 2005 score is that 2004 evaluated the sites as having contaminated surface water flowing off the site in excess of drinking water criteria as well as having offsite contamination issues.

7.0 SUMMARY OF INVESTIGATION ACTIVITIES

During the time period between August 15 and August 22, 2005, Earth Tech completed a detailed Phase III ESA of both the Roberts Bay and Ida Bay Mine Sites. The purpose of this assessment was to help determine the extent and volumes of contaminated materials in order to support the development of a remedial plan for the site. The assessment only included investigation of areas of concern that were not related to tailings or waste rock issues.

In summary Earth Tech did not identify any PCB, pesticide or PAH concerns on the site and the contaminants were limited to hydrocarbon and metals in soils. Based on the analysis of fines (i.e. less than 5 mm in size) collected from the surface of the waste rock pads, there were exceedances above the CCME residential/parkland criteria for metals in all the areas where waste rock is located. Metal concentrations that typically exceeded criteria in these samples included; arsenic, barium, chromium, copper, lead, nickel, silver and zinc. These metal concentrations were commonly an order of magnitude higher than the metal concentrations found in the background locations. Field observations indicated that fine grained soils existed in all areas where waste rock was located or within a few metres of areas dominated with large diameter rock materials on the surface. The area covered with waste rock is approximately 1.5 ha in size.

Very high metal concentrations were also identified in the general vicinity of the Mill. The metal concentrations in this area were generally one to two orders of magnitude higher than the metals determined in other areas of the site that had used waste rock for fill. It is assumed that the elevated metal concentrations in the area of Mill are related to the processing of the ore material in this location. The volume of material with metal containing fines in the area of the Mill is estimated at 65 m³. Approximately 40 m³ of the metal impacted material is co-contaminated with hydrocarbons.

Based on the completion of additional leachate testing on samples collected within the Mill, there is the potential for this material to generate metal containing leachate that exceeds CCME FWAL criteria as well as leachate that would be defined as hazardous according to the Alberta Waste Control Regulation. BCMEM shakeflask testing completed on samples collected from the garage and from the camp have also shown the potential to create metal containing leachate under specific conditions. It is recommended that an assessment of this data be included in the geochemical assessment in order to develop an overall approach to address and mitigate waste rock issues at the site.

Hydrocarbon impacted soils were identified in the area of the Fuel Bladders, Garage and Mill buildings. The total volume of hydrocarbon impacted soils at these three sites was estimated at 325 m³. One elevated hydrocarbon fraction was also determined in one sample collected a considerable distance down gradient of the site. Due to the distance of this sample point to any potential sources, the cause of this anomalous concentration is currently unknown.

At Ida Bay there were no identified contaminant concerns other than the elevated metal concentrations for copper and lead in the sediment samples collected below the waste rock piles.

Based on the findings of this assessment, the following table presents a summary of the areas with soil or groundwater contamination in excess of the governing CCME criteria and where remedial activity is recommended.

Table 7.1: Summary of Areas Requiring Remedial Action

Location	Contaminant Exceeding Governing Criteria (Max Concentration ppm)	Media	Volume m ³	Comments
Roberts Bay				
Fuel Storage Compound	Hydrocarbons (F2 20000 ppm, F3 13,000 ppm)	Soil	130	Contained within rock berm
Mill/Assay Buildings	Hydrocarbons, metals (F2 5,300 ppm F3 8,200 ppm, various metals including arsenic 379 ppm, lead 2,750 ppm)	Soil	5 PHC, 25 metals 40 co-contaminated with metals and hydrocarbons	Highest metal levels recorded inside mill building. Approximately 40 m ³ of the metal impacted material is co-contaminated with hydrocarbons
Garage	Hydrocarbons (F2 730 ppm, F3 19,000 ppm, F4 5,900 ppm)	Soil	150	Delineation to the south in the waste rock was not achieved
Muskeg area below rock piles	Hydrocarbons (F3 2,500)	Soil		Only detected in one sample collected at a considerable distance from site
Ida Bay				
Sediments in Ocean	Metals	Sediments	<20 m ³	Below waste rock piles

8.0 REMEDIAL OPTIONS

The investigation completed at the Roberts site identified a number of contaminants that require some form of remedial activity. The remedial options differ for each type of contaminated material however they typically range from excavation and offsite disposal or onsite treatment/land filling. Depending on the results of the ecological and human health risk management plan, another potential option that should be considered is leaving the contaminated media in place and addressing the contaminant issue with a risk management plan. The following table (Table 8.1) presents a brief summary of the remedial options that could be considered for the remediation of the items presented in Table 7.1 above. Also presented in this table are estimated remedial costs for each of the options. The cost estimates assume that suitable equipment and labor forces are already at the Roberts Bay site therefore mob/demob and living expenses have not be included in the costs estimate.

No subsurface contaminants were identified at the Ida Bay site, other than elevated metals in the sediments located below the waste rock piles. Removal of waste rock that is located below the high tide level is recommended.

Table 8.1: Summary of Remedial Options

Environmental Concern	Volume (m³)	Remedial Options	Estimated Costs	Comments
Roberts Bay				
Hydrocarbon Contaminated Soils (Mill, and Garage and Fuel Bladder Area)	325	Offsite Disposal	\$375,000	Containerize, ship offsite and disposal at an approved facility in Alberta.
		Disposal in an onsite engineered land filled	\$175,000 Plus landfill monitoring costs	Disposed of in an onsite landfill in a separate cell than the metal contaminated soils
		On-site land farming and treatment	\$130,000 Plus monitoring costs	Land farming process is slow, may potentially require some equipment to remain onsite for an additional year or two after site decommissioning is complete
Metal Contaminated Soils (high concentrations) around the Mill Building	65	Offsite Disposal	\$83,000	Containerize, ship offsite and disposal at an approved offsite landfill facility
		Disposal in an onsite engineered land fill	\$48,000 Plus monitoring costs	Disposed of in a separate cell in the hazardous waste landfill. Some soils are co-contaminated with hydrocarbons.
Ida Bay				
Metals in sediments	20	Excavate waste rock sediments from ocean and move waste rock away from shore areas	\$25,000	Remove from shoreline and place in waste rock stockpiles away from shoreline areas

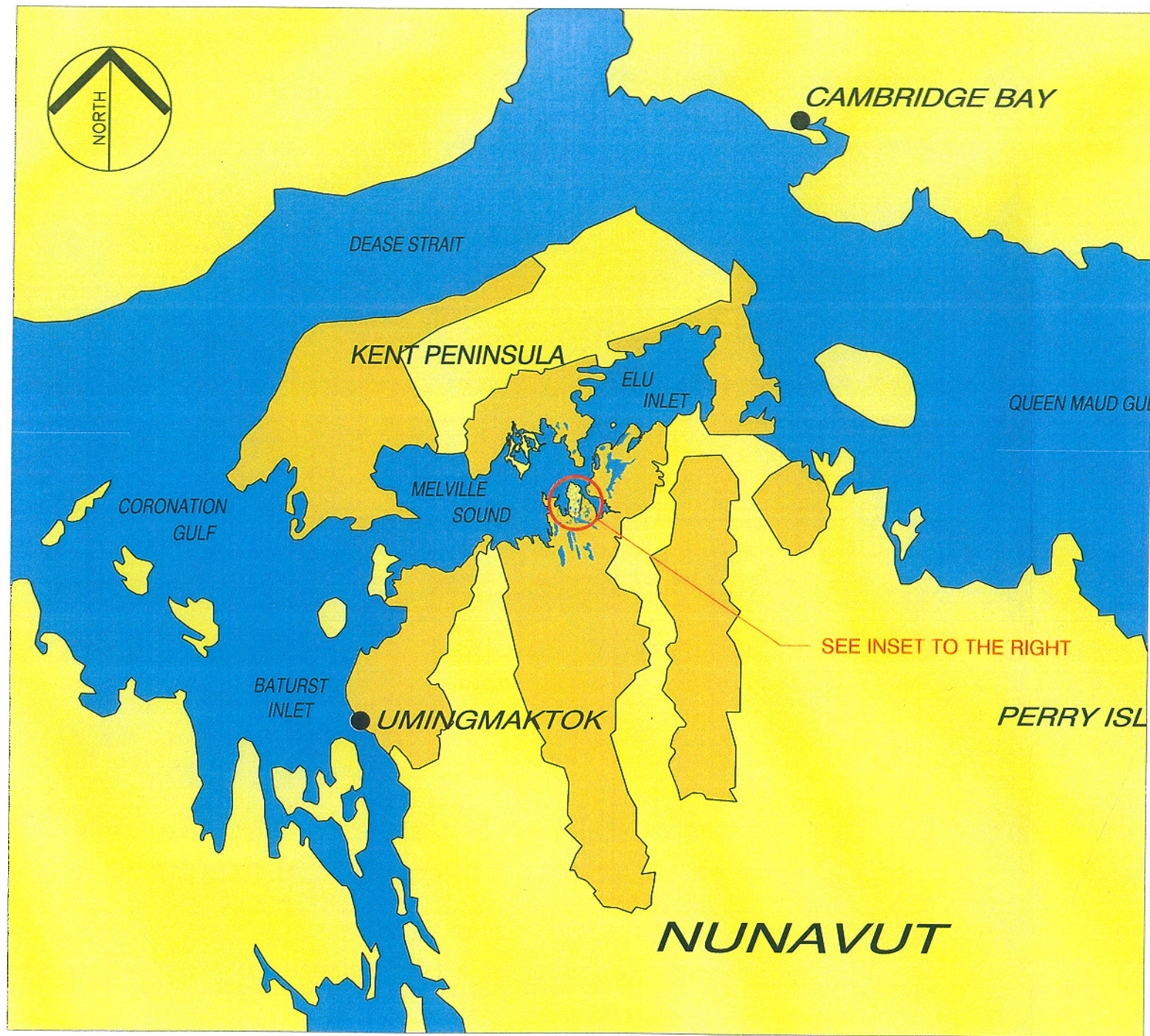
9.0 CLOSURE

The usage of this report is limited by the standard Earth Tech Special Provisions – Environmental Site Services, which are included in Appendix I of this report.

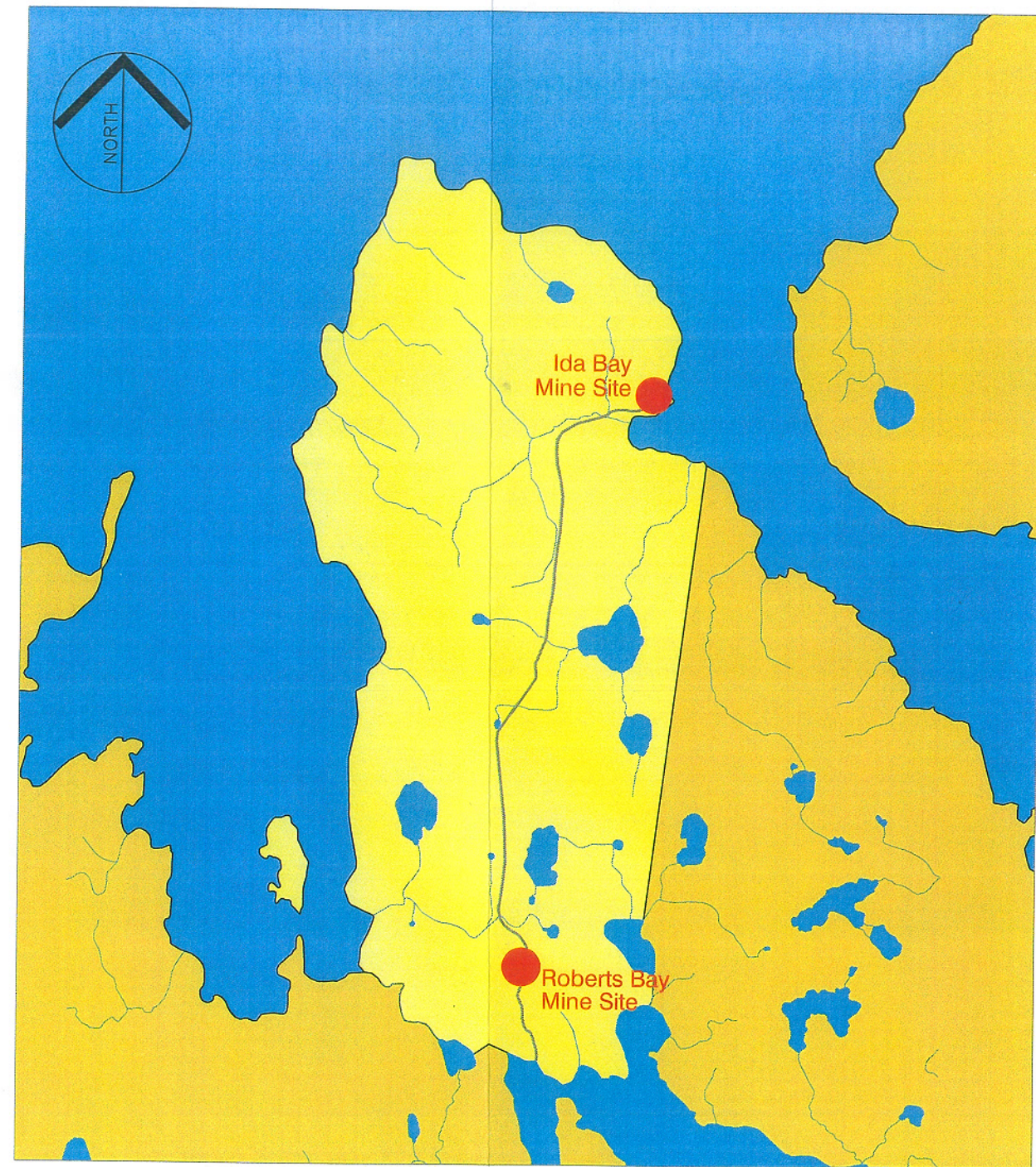
APPENDIX A

SITE PLANS

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GENERAL AREA OVERVIEW
NOT TO SCALE



ROBERTS BAY AND IDA BAY MINE SITE OVERVIEW
NOT TO SCALE

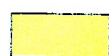
Date: October 07,2005


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LEGEND:



INUIT OWNED LANDS



NUNAVUT LAND

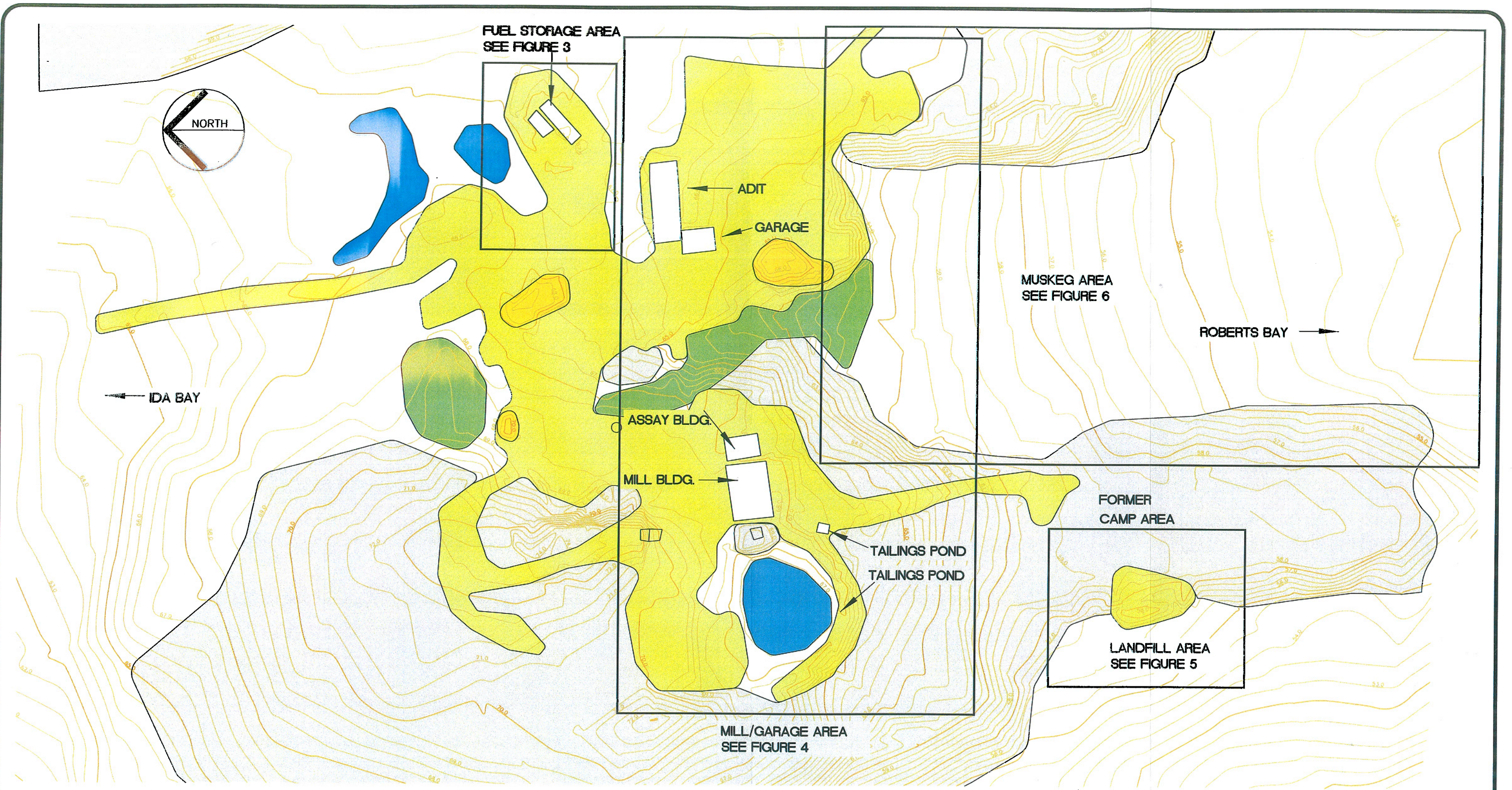


MINE SITE AREA

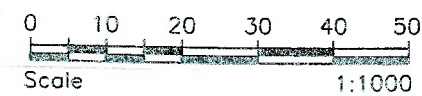
NOTE:

FIGURE BASED ON AMEC LAND SURVEYS
LIMITED DRAWINGS; ROBERTS BAY AND IDA
BAY MINE SITE REMEDIATION SHEETS 1-4,
SEPT.2005.

Public Works and Government Services Canada
Roberts Bay + Ida Bay Mine Site Investigation
Location Plan
Figure 1



Date: OCTOBER 11, 2005



EarthTech

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LEGEND:

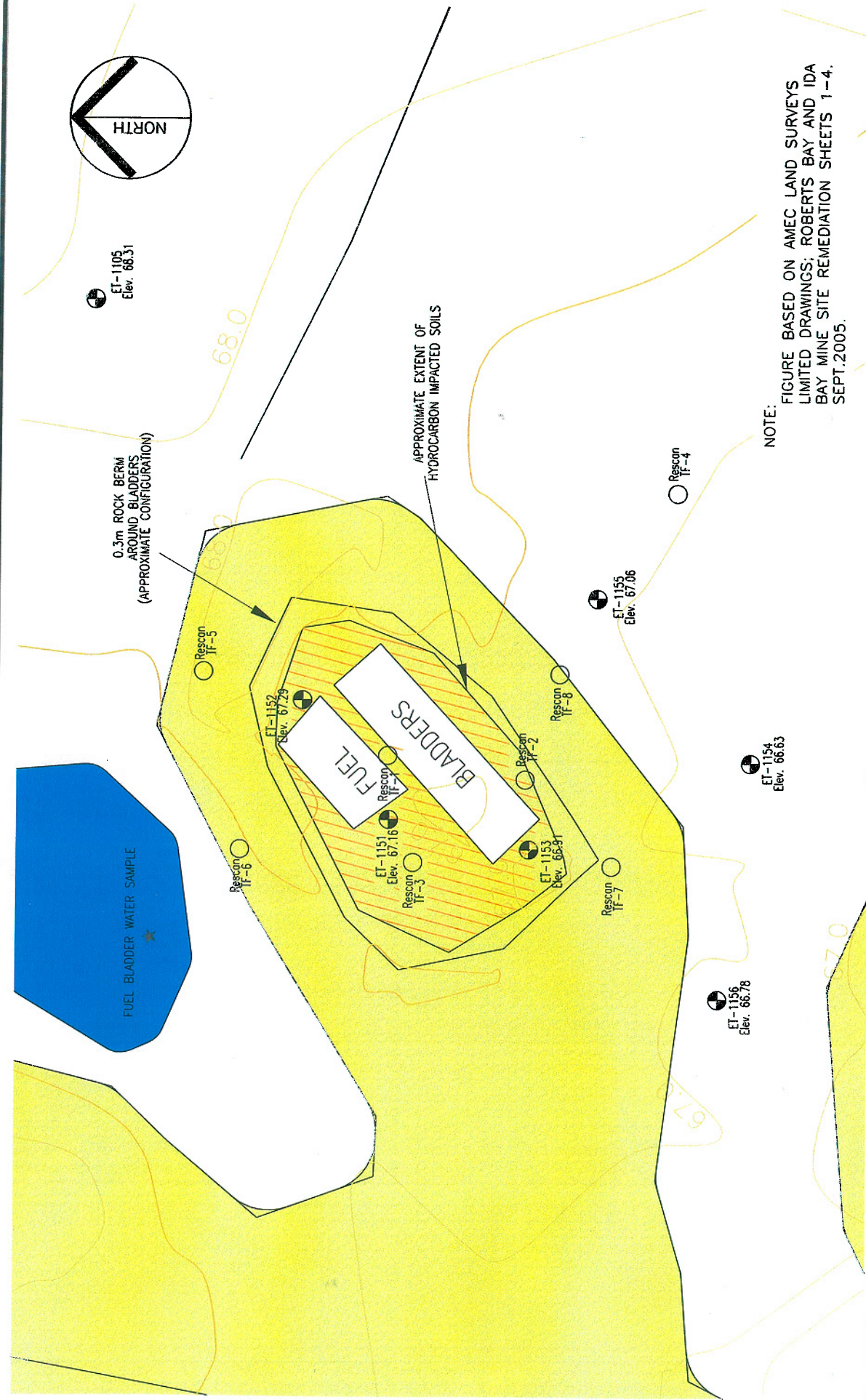
- WASTE ROCK PILE
- ROCK OUTCROP
- WASTE ROCK AREA

- OVERBURDEN AREA
- TESTHOLE
- RESCAN TESTHOLE

NOTE:

FIGURE BASED ON AMEC LAND SURVEYS LIMITED DRAWINGS; ROBERTS BAY AND IDA BAY MINE SITE REMEDIATION SHEETS 1-4, SEPT. 2005.

Public Works and Government Services Canada
 Roberts Bay + Ida Bay Mine Site Remediation
 Overall Site Plan
 Figure 2



NOTE: FIGURE BASED ON AMEC LAND SURVEYS LIMITED DRAWINGS; ROBERTS BAY AND IDA BAY MINE SITE REMEDIATION SHEETS 1-4, SEPT.2005.

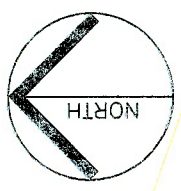
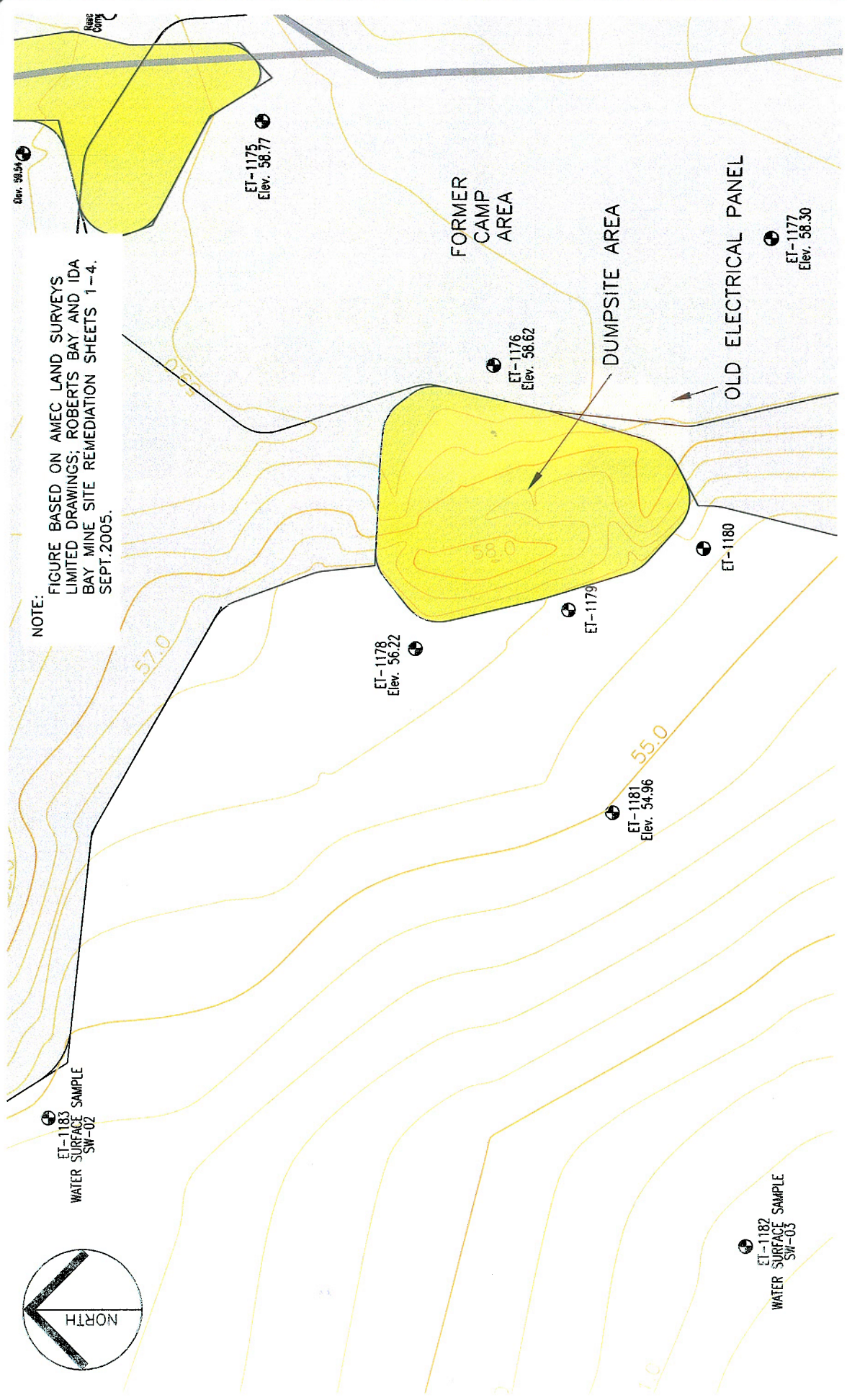
Date: OCTOBER 07, 2005



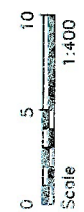
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- LEGEND:
- WASTE ROCK PILE
 - ROCK OUTCROP
 - HYDROCARBON IMPACTED AREA
 - WASTE ROCK AREA
 - TESTHOLE
 - RESCAN TESTHOLE

Public Works and Government Services Canada
Roberts Bay + Ida Bay Mine Site Investigation
Fuel Storage Area
Figure 3



Date: OCTOBER 11, 2005



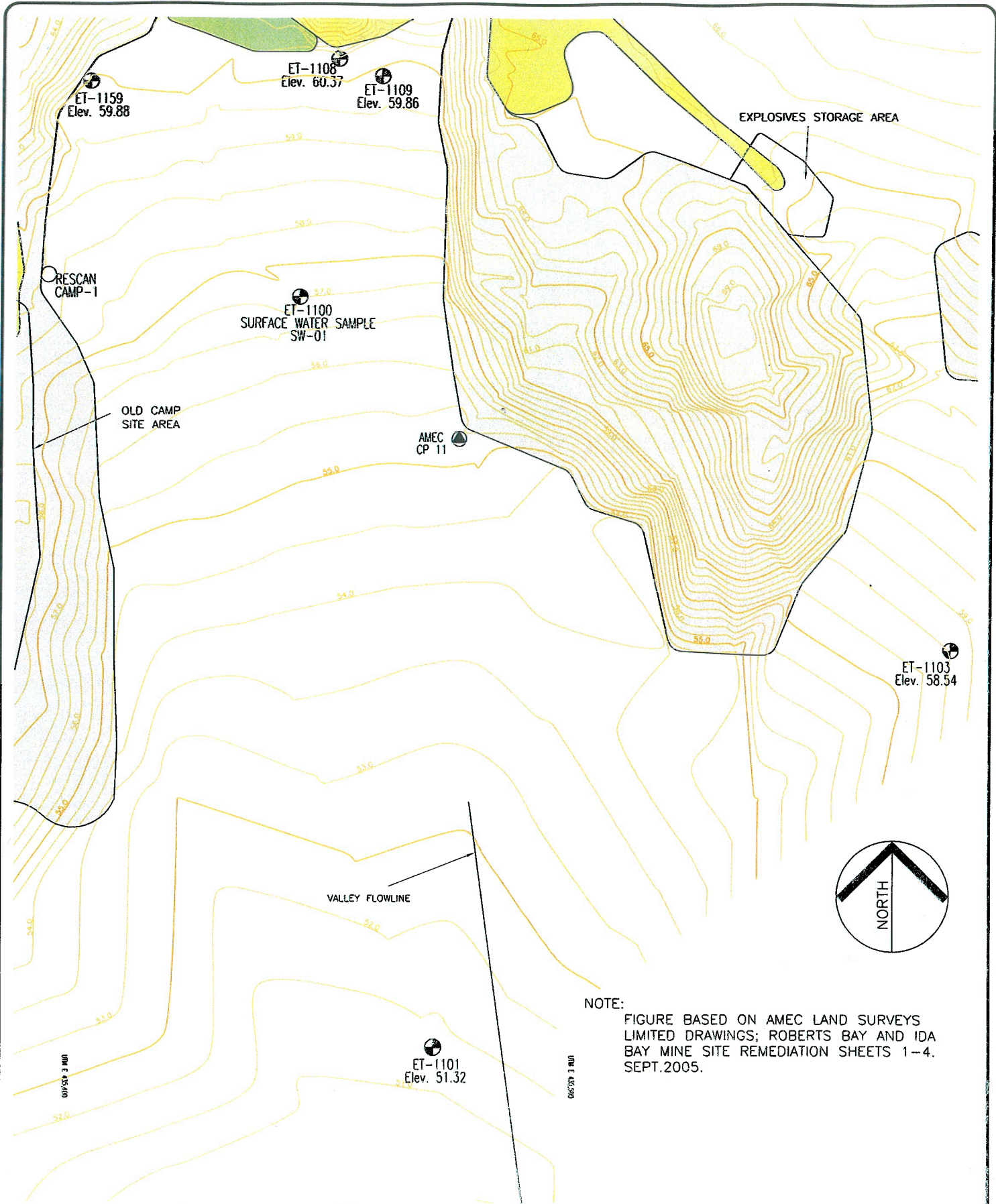
LEGEND:

- WASTE ROCK PILE
- ROCK OUTCROP
- WASTE ROCK AREA
- TESTHOLE
- RESCAN TESTHOLE



A tyco International Ltd. Company

Public Works and Government Services Canada
 Roberts Bay + Ida Bay Mine Site Investigation
 Camp/Landfill Area
 Figure 5



NOTE:

FIGURE BASED ON AMEC LAND SURVEYS LIMITED DRAWINGS; ROBERTS BAY AND IDA BAY MINE SITE REMEDIATION SHEETS 1-4. SEPT.2005.

Date: OCTOBER 11, 2005

Scale 1:1000

EarthTech

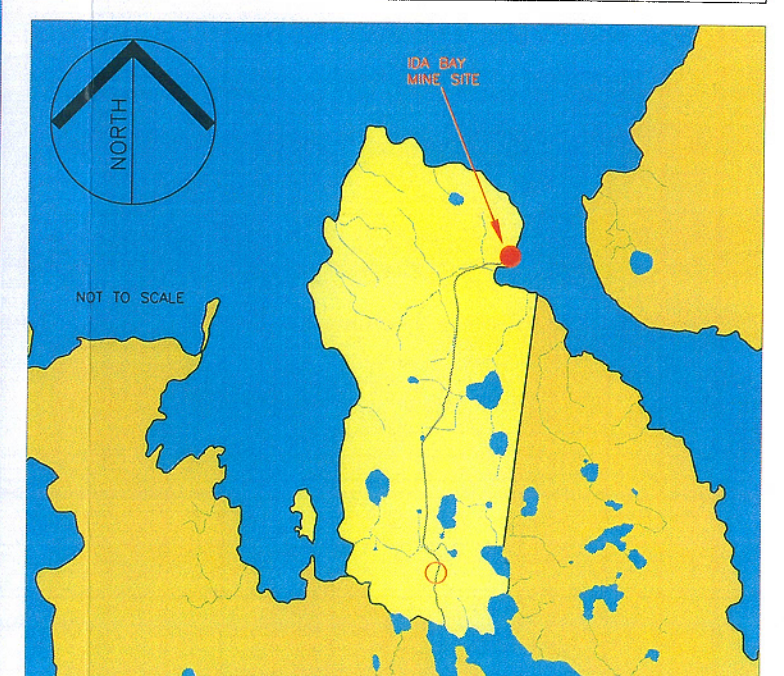
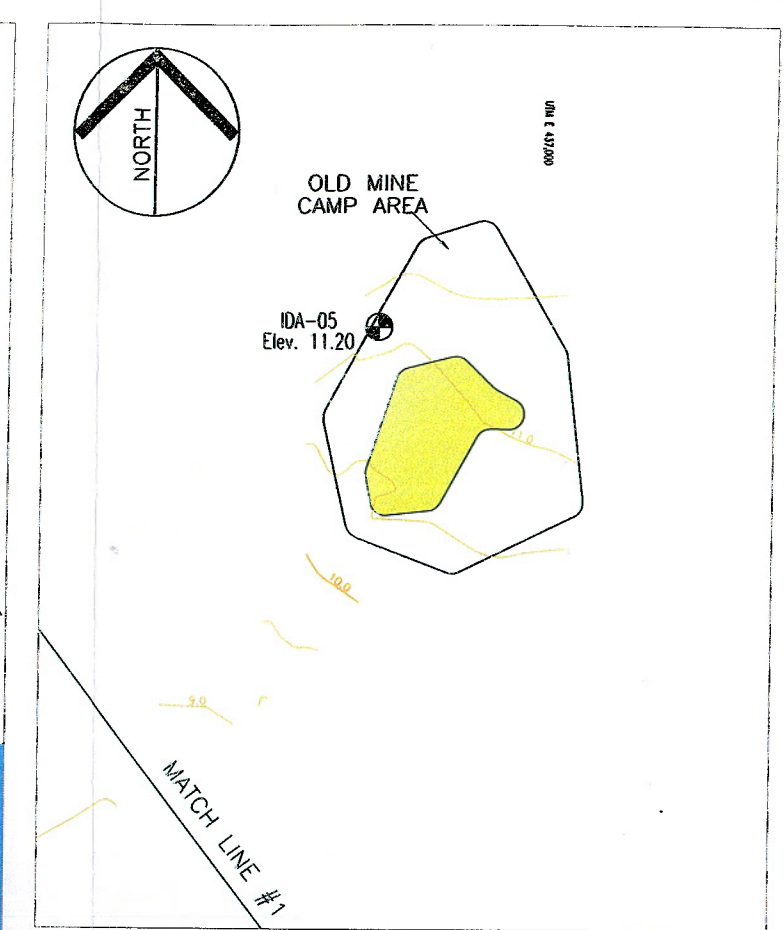
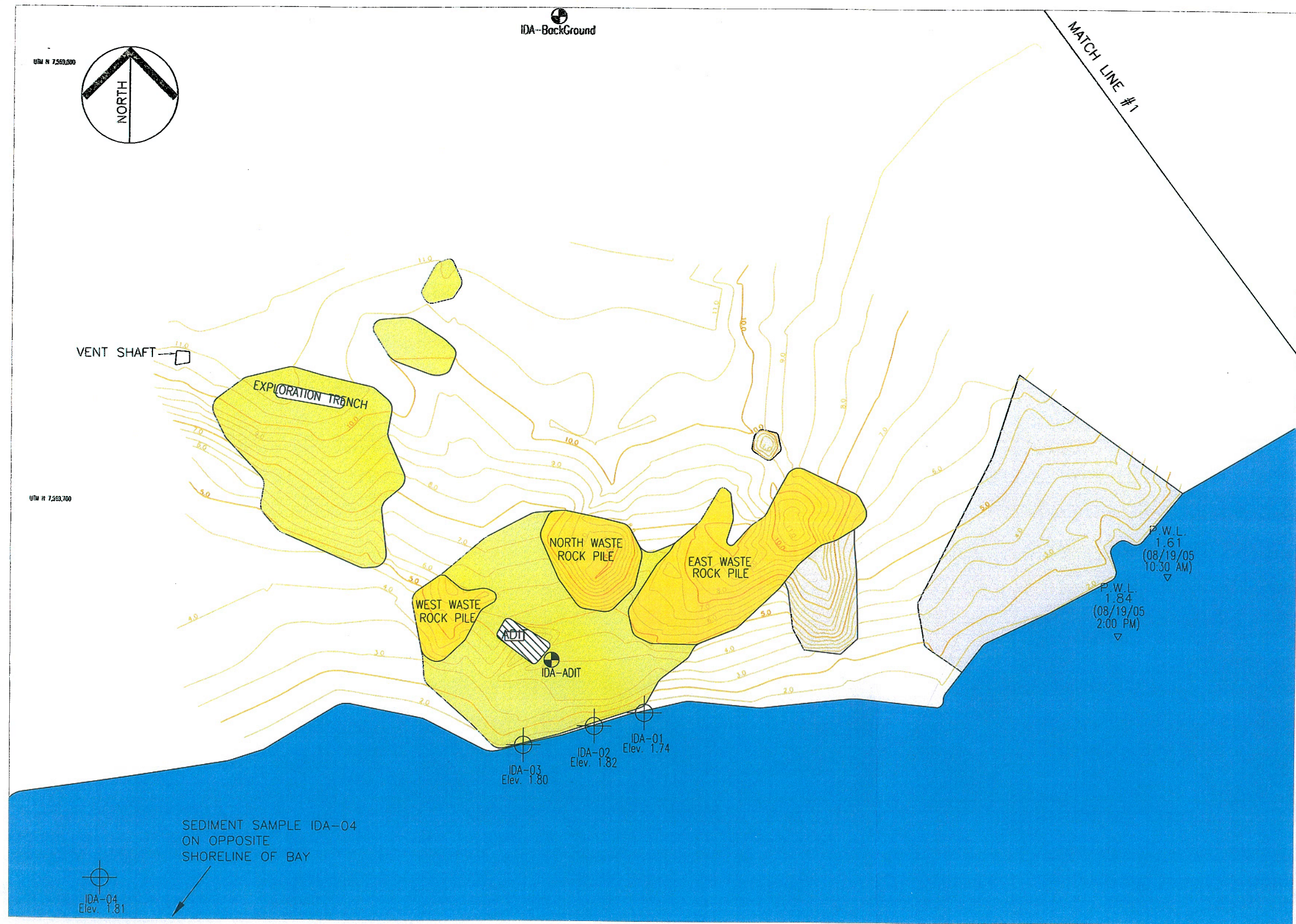
A **Geosystems** International Ltd. Company

LEGEND:

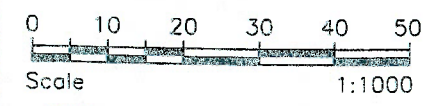
- WASTE ROCK PILE
- ROCK OUTCROP
- WASTE ROCK AREA

- OVERBURDEN AREA
- TESTHOLE
- RESCAN TESTHOLE

Public Works and Government Services Canada
Roberts Bay + Ida Bay Mine Site Investigation
Muskeg Area
Figure 6



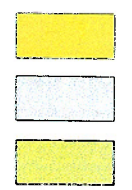
Date: October 07, 2005



EarthTech

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LEGEND:

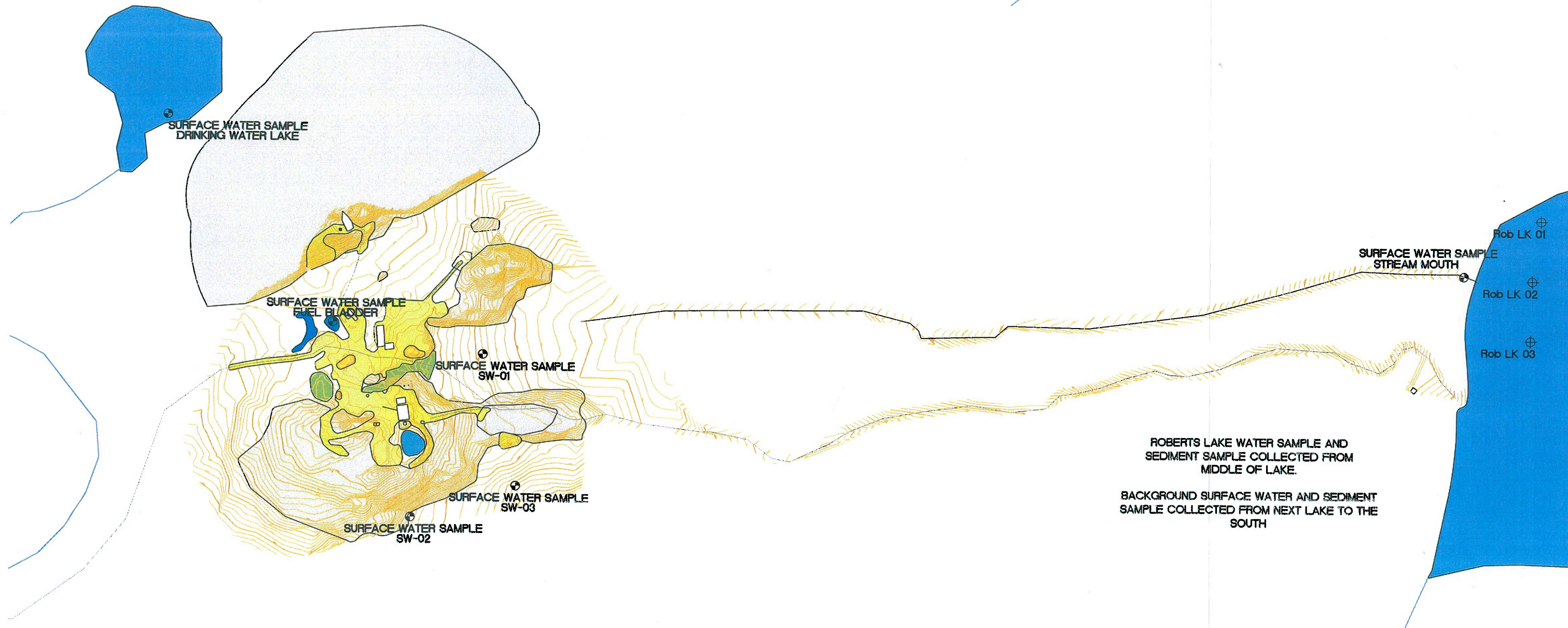
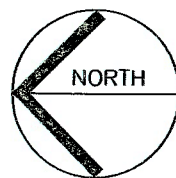


TESTHOLE

SEDIMENT SAMPLE LOCATION

NOTE:
FIGURE BASED ON AMEC LAND SURVEYS LIMITED DRAWINGS; ROBERTS BAY AND IDA BAY MINE SITE REMEDIATION SHEETS 1-4. SEPT.2005.

Public Works and Government Services Canada
Roberts Bay + Ida Bay Mine Site Investigation
Ida Bay
Figure 7



Date: January, 2006

Scale 0 40 80 120 160 200m
1:4000

EarthTech

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LEGEND:

- WASTE ROCK PILE
- ROCK OUTCROP
- WASTE ROCK AREA

- OVERBURDEN AREA
- SURFACE WATER SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATON

NOTE:
FIGURE BASED ON AMEC LAND SURVEYS LIMITED
DRAWINGS; ROBERTS BAY AND IDA BAY MINE SITE
REMEDIATION SHEETS 1-4. SEPT. 2005.

Public Works and Government Services Canada
Roberts Bay + Ida Bay Mine Site Investigation
Surface Water Sample Locations
Figure 8

APPENDIX B



AERIAL PHOTOGRAPHS

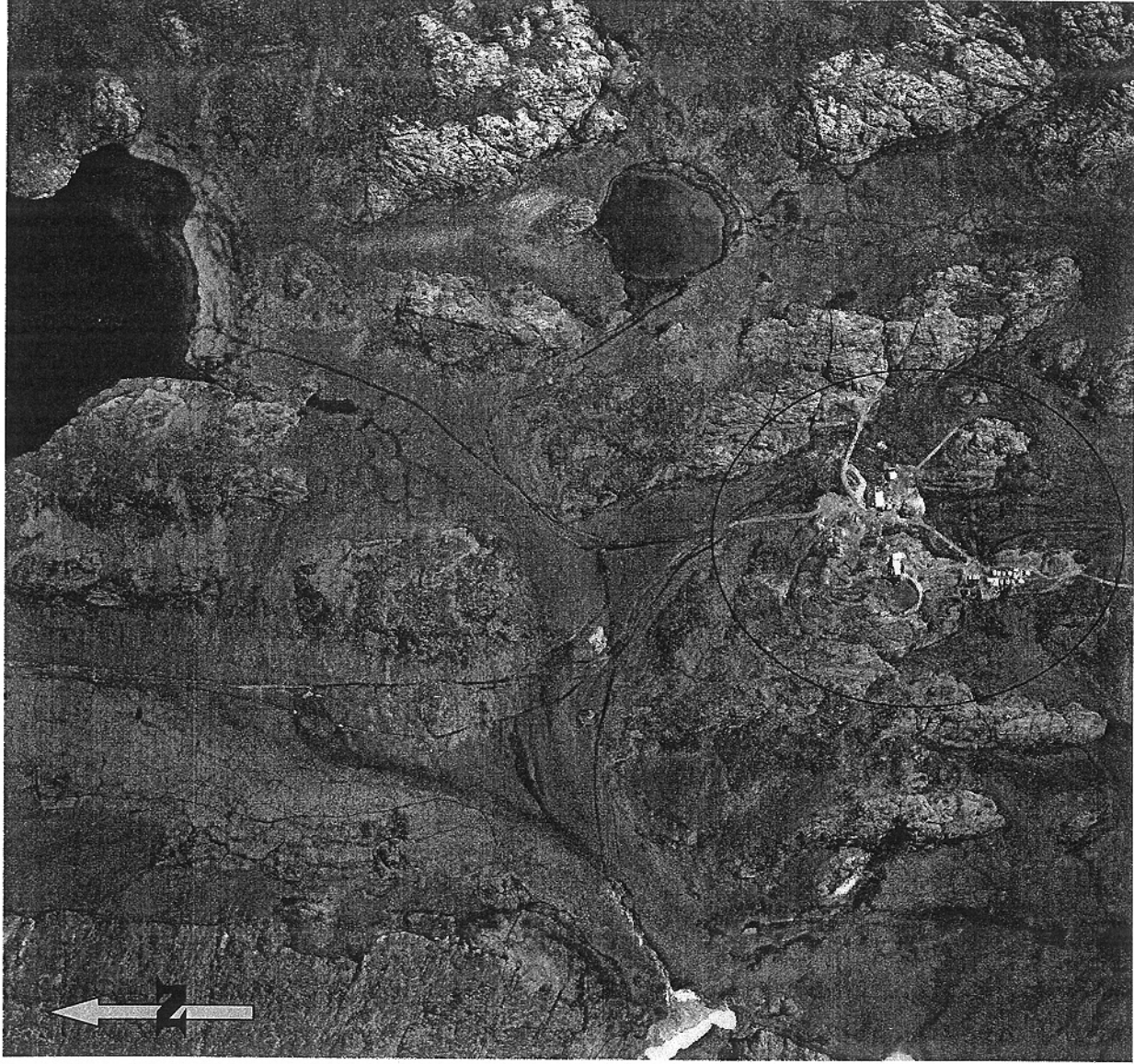


Photo B-1 Aerial Photo of Roberts Bay Site – 1982 NTS



Photo B-1 Aerial Photo of Ida Bay Site – 1982 NTS

APPENDIX C

SITE PHOTOGRAPHS



Photo 1: Close up of Roberts Bay Mine Site, viewed from the east

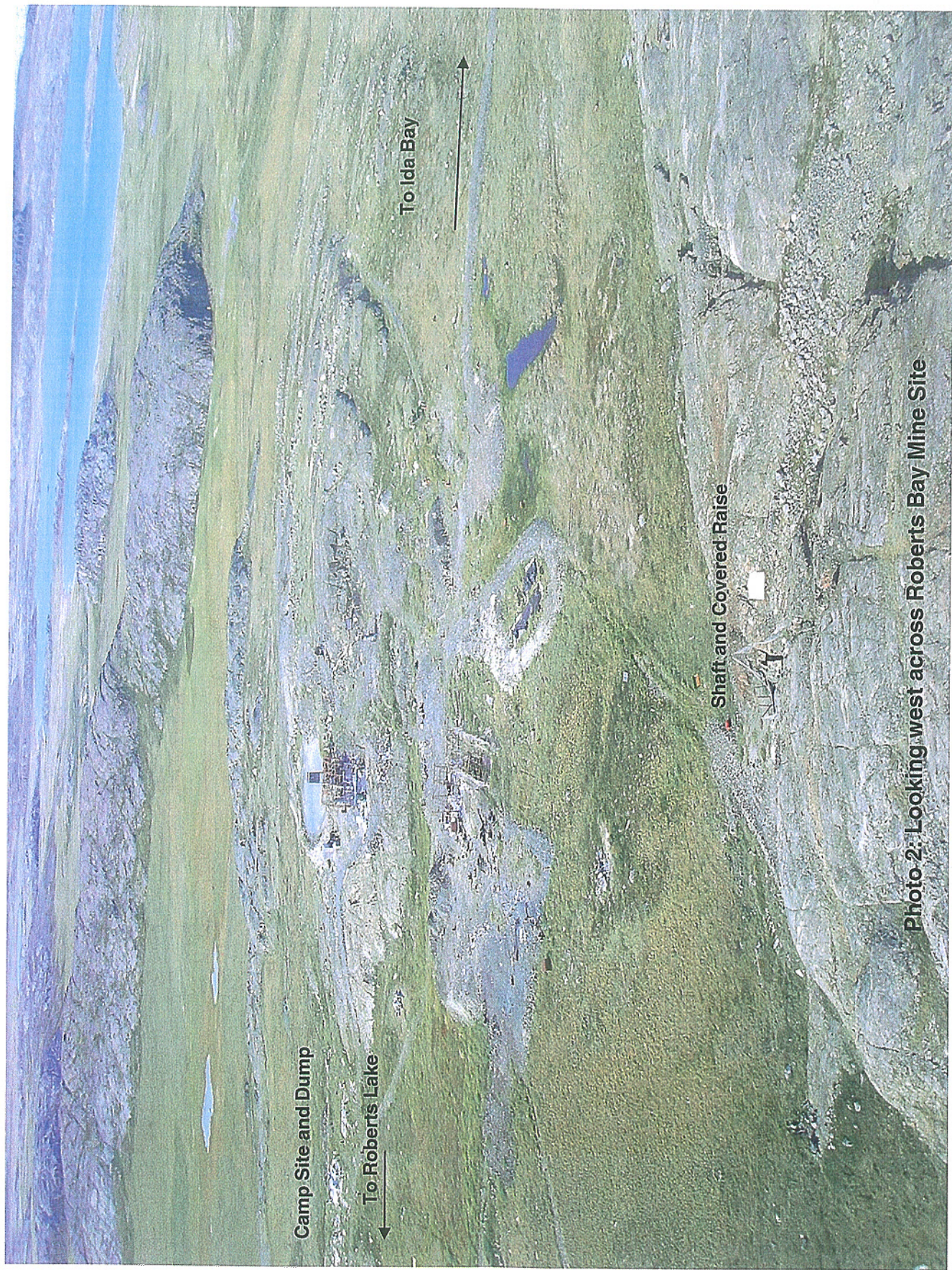


Photo 2: Looking west across Roberts Bay Mine Site

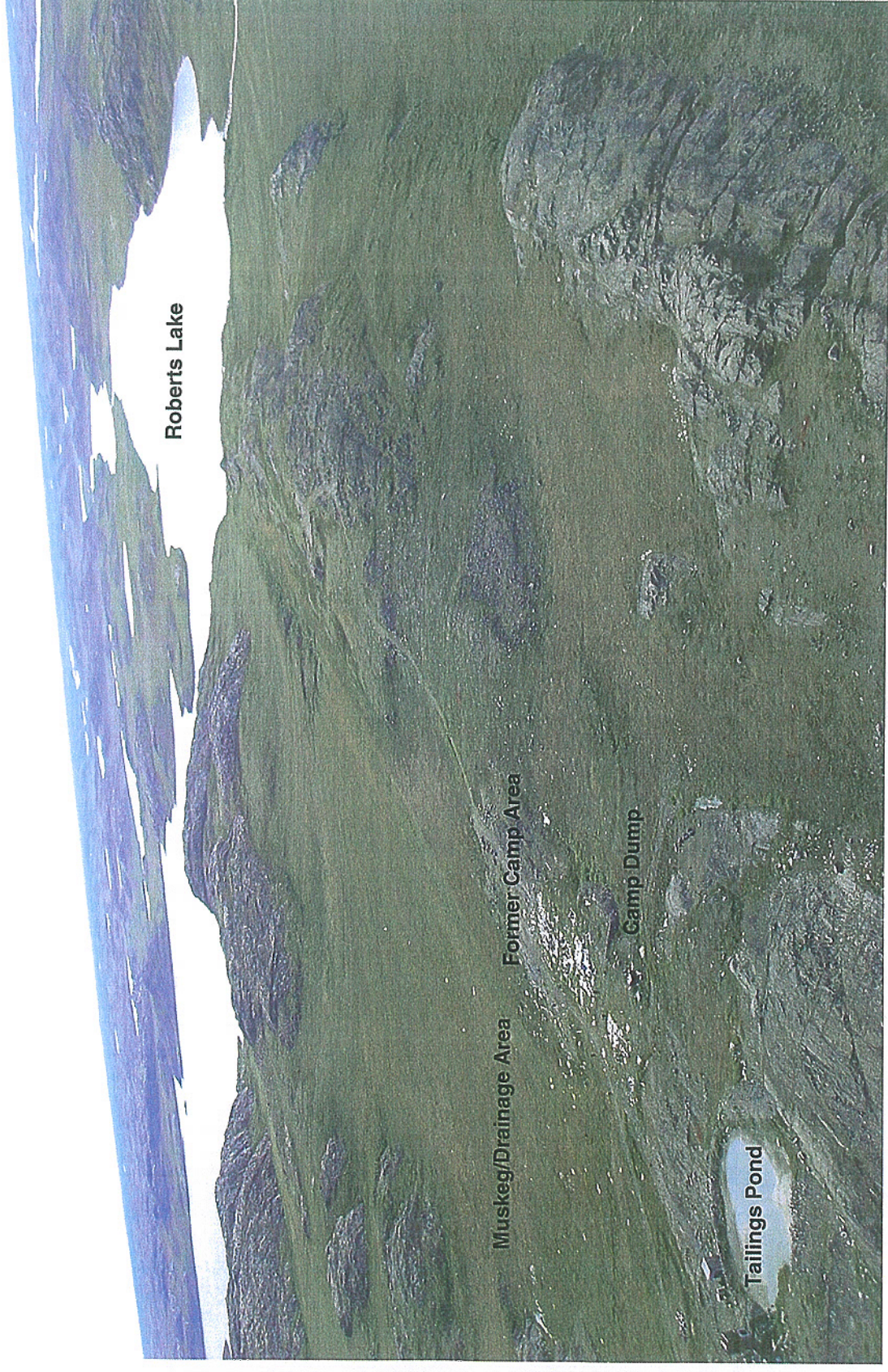


Photo 3: Looking south from Roberts Bay Mine towards Roberts Lake

Exploration Trenches

Adit Entrance

Former Camp Location

Waste Rock Piles

Melville Sound

Photo 4: Close up of Ida Bay Site, viewed from the east





Photo 5: Background sample (ET 1157) location to the north



Photo 6: Background sample location (ET 1158) to the southeast



Photo 7: Two rubber fuel storage bladders, looking west



Photo 8: Excavation of testpit (ET 1153) near fuel bladders



Photo 9: Remains of Mill and Assay Building, looking south



Photo 10: Tailings Pond west of Mill



Photo 11: Northeast corner of Assay Building



Photo 12: Sample Et 1160 south of Assay building



Photo 14: Sample ET 1163 near main electrical panel



Photo 13: Ball mill inside Mill Building



Photo 15: Sample ET 1167 in surface stain in Mill



Photo 17: Drainage pathway below shed, ET1170, 1171



Photo 19: Base of Tailing Pond berm



Photo 16: Sample ET 1169 on north side of Barrel storage shed



Photo 18: Evidence of tailings on side of berm



Photo 20: Waste materials in former Camp area



Photo 21: Camp area dump



Photo 22: Sample location ET 1180 at base of Camp dump



Photo 23: Area downgradient of Camp dump



Photo 24: Remains of Garage Building, looking south



Photo 26: Flagging showing ET 1111 and debris inside Garage,



Photo 25: Waste debris inside Garage



Photo 27: Storage area outside Garage



Photo 28: Sample location ET 1108 at base of waste rock pile



Photo 29: Muskeg area below waste rock piles, looking south



Photo 30: Looking north across Muskeg area



Photo 31: Sample location ET 1100 in Muskeg area



Photo 32: Ida Bay site, along shoreline



Photo 33: Ida Bay site



Photo 34: Adit entrance

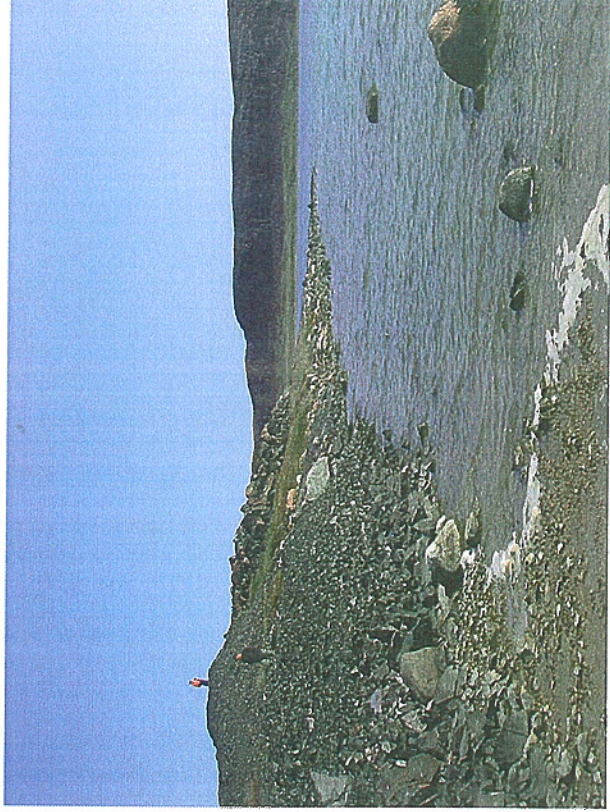


Photo 35: Waste rock along Ida Bay shoreline



Photo 36: Sample Ida 05 by waste lead acid batteries



Photo 37: Pile of tin cans at former camp site



Photo 38: Scattered debris at Ida Bay site

APPENDIX D



ANALYTICAL DATA SUMMARY TABLES

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Background - Metal Analysis

Table 1: Metals Concentrations in Soils

Parameter	CCME Criteria (mg/kg)	Sample Location		Background Data Range
		ET 1157	ET 1158	
Depth (cm)		30	8	
Antimony	20	<0.2	<0.2	<0.2
Arsenic	12	2.1	0.5	0.5-2.1
Barium	500	104	37	37-104
Beryllium	4	<1	<1	<1
Cadmium	10	<0.5	<0.5	<0.5
Chromium	64	45.0	10.6	10.6-45.0
Cobalt	50	13	8	8-13
Copper	63	32	9	9-32
Lead	140	13	<5	<5-13
Mercury	6.6	<0.05	<0.05	<0.05
Molybdenum	10	<1	<1	<1
Nickel	50	24	8	8-24
Selenium	1	<0.2	<0.2	<0.2
Silver	20	16	8	8-16
Thallium	1	<1	<1	<1
Tin	50	<5	<5	<5
Uranium	-	<40	<40	<40
Vanadium	130	54	23	23-54
Zinc	200	60	30	30-60

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

**Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Fuel Storage Area**

Table 2: PHC Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1151A	ET 1152A	ET 1152B	ET 1153A	ET 1153B	ET 1154A	ET 1155A	ET 1156A
Depth (cm)		15	18	45	35	50	45	45	35
Benzene	0.0068	<0.005	<0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.08	<0.01	<0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.018	0.03	<0.06	<0.01	0.07	0.03	<0.01	<0.01	<0.01
Xylene	2.4	1.7	0.14	0.09	0.27	2.5	<0.01	<0.01	<0.01
F1 C6-C10	260	360	200	97	740	330	<5	<5	<5
F2 C10-C16	900	7000	42000	3200	20000	7400	49	<5	<5
F3 C16-C34	800	1400	13000	910	8200	3100	360	33	8
F4 C34-C50	5600	19	430	13	630	79	130	27	<5

PARAMETER	CRITERIA (mg/kg)	Rescan Environmental 2003 Data											
		TF-1A	TF-1C	TF-2B	TF-3A	TF-3B	TF-4B	TF-5B	TF-5D	TF-6B	TF-7A	TF-7B	TF-8A
Depth (cm)		10	50	50	10	50	50	30	60	50	10	50	10
Benzene	0.0068	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.08	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	0.018	<0.2	0.4	<0.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Xylene	2.4	<0.6	5.7	<0.6	<0.3	<0.3	<0.3	16.9	<0.3	<0.3	<0.3	<0.3	<0.3
F1 C6-C10	260	60	60	60	<20	<20	<20	80	60	<20	<20	<20	<20
F2 C10-C16	900	20000	1300	4700	290	710	<10	11000	430	<10	20	30	<10
F3 C16-C34	800	8600	180	1600	200	250	<10	2100	80	60	30	60	<10
F4 C34-C50	5600	<10	<10	30	<10	<10	<10	40	<10	<10	<10	<10	<10

NOTES:

- 1) BTX Criteria based on the 2004 CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Fine Grained Soil
- 2) Benzene Criteria is based on a 10^{-6} incremental risk
- 3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Fine Grained Soil
- 4) Exceedance indicated with shading

Table 3: PAH Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1152A	ET 1153A
Naphthalene	0.6	<0.3	<1
Quinoline	-	<0.3	<1
Phenanthrene	5	<0.3	2
Pyrene	10	0.3	<1
Benzo(a)anthracene	1	<0.3	<1
Benzo(b)fluoranthene	1	<0.3	<1
Benzo(k)fluoranthene	1	<0.3	<1
Benzo(a)pyrene	0.7	<0.3	<1
Indeno(1,2,3-cd)pyrene	1	<0.3	<1
Dibenzo(a,h)anthracene	1	<0.3	<1

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

Roberts Bay - Abandoned Mine Site
Summary of Soil Analytical Data
Mill and Assay Buildings

Table 4: PHC Concentrations in Soils

PARAMETER	CRITERIA mg/kg	ET 1159	ET 1160	ET 1161	ET 1162	ET 1163	ET 1164	ET 1165	ET 1166	ET 1167	Rescan 2003 Mill-1
Depth (cm)		25	20	15	15	8	15	15	15	10	20
Benzene	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
Toluene	0.37	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Ethylbenzene	0.082	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Xylene	11	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.3
F1 C6-Cl0	30	<5	<5	<5	<5	<5	36	<5	<5	6	<20
F2 Cl0-Cl6	150	6	<5	<5	1700	<5	2500	<5	<5	2000	740
F3 Cl6-C34	400	210	<5	45	400	40	8200	120	24	5300	1600
F4 C34-C50	2800	110	<5	7	80	10	1200	44	21	89	50

NOTES:

1) BTEX Criteria based on the 2004 CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Coarse Grained Soil

2) Benzene Criteria is based on a 10^{-6} incremental risk

3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Coarse Grained Soil

4) Exceedance indicated with shading

Table 5: PAH Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	1163	1164	1166
Naphthalene	0.6	<0.01	<0.1	<0.01
Quinoline	-	<0.01	<0.1	<0.01
Phenanthrene	5	<0.01	<0.1	<0.01
Pyrene	10	<0.01	<0.1	<0.01
Benzo(a)anthracene	1	<0.01	<0.1	<0.01
Benzo(b)fluoranthene	1	<0.01	<0.1	<0.01
Benzo(k)fluoranthene	1	<0.01	<0.1	<0.01
Benzo(a)pyrene	0.7	<0.01	<0.1	<0.01
Indeno(1,2,3-cd)pyrene	1	<0.01	<0.1	<0.01
Dibenzo(a,h)anthracene	1	<0.01	<0.1	<0.01
Nitrobenzene d5	-	94	0	96

NOTES:

1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

2) Exceedance indicated with shading

Table 6: PCB Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	1163	1164	1165	1166	Rescan Mill-1
Aroclor 1016	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1221	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1232	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1242	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1248	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1254	-	<0.01	<0.01	0.02	<0.01	-
Aroclor 1260	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1262	-	<0.01	<0.01	<0.01	<0.01	-
Aroclor 1268	-	<0.01	<0.01	<0.01	<0.01	-
Total PCBs	1.3	<0.05	<0.05	<0.05	<0.05	<0.1

NOTES:

1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Soil Analytical Data
Mill and Assay Buildings

Table 7: Metals Concentrations in Soils

PARAMETER	DEPTH (cm)	CRITERIA (mg/kg)	Background Range	ET 1159	ET 1160	ET 1161	ET 1162	ET 1163	ET 1164	ET 1165
Aluminum				25	20	15	15	8	15	15
Antimony		20	<0.2	<0.2	0.3	2.4	1.4	6.2	2.0	9.0
Arsenic		12	0.5-2.1	9.5	1.6	2.9	42.1	819	9.7	214
Barium		500	37-104	492	59	92	51	772	1190	804
Beryllium		4	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium		10	<0.5	<0.5	<0.5	<0.5	<0.5	4.8	2.3	9.1
Chromium		64	10.6-45.0	35.4	10.6	6.4	10.3	94.8	12.1	69.1
Cobalt		50	8-13	12	5	4	7	30	7	43
Copper		63	9-32	66	12	13	35	254	29	200
Iron		-	-	-	-	-	-	-	-	-
Lead		140	<5-13	60	13	108	351	261	22	812
Mercury		6.6	<0.05	<0.05	<0.05	<0.05	0.31	1.29	<0.05	1.75
Molybdenum		10	<1	<1	<1	<1	<1	7	<1	3
Nickel		50	8-24	32	10	8	26	184	13	216
Selenium		1	<0.2	0.6	<0.2	<0.2	<0.2	0.2	<0.2	0.9
Silver		20	8-16	3	4	2	105	661	17	79
Thallium		1	<1	<1	<1	<1	<1	<1	<1	<1
Tin		50	<5	<5	<5	<5	<5	<5	<5	<5
Uranium		-	<40	<40	<40	<40	<40	<40	<40	<40
Vanadium		130	23-54	50	17	14	22	79	26	80
Zinc		200	30-60	110	30	30	50	300	160	370

PARAMETER	DEPTH (cm)	CRITERIA (mg/kg)	Background Range	ET 1166	ET 1167	ET 1168	1068 Duplicate of 1168	ET 1173	ET 1174	Rescan 2003 Mill-1
Aluminum				15	15	15		10	20	19100
Antimony		20	<0.2	5.5	4.5	19.8	19.0	<0.2	0.3	-
Arsenic		12	0.5-2.1	15.2	19.1	379	521	1.4	19.4	35.6
Barium		500	37-104	254	581	402	352	17	46	33
Beryllium		4	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium		10	<0.5	<0.5	1.6	4.9	7.5	<0.5	<0.5	5.5
Chromium		64	10.6-45.0	22.6	71.1	67.4	67.8	8.0	7.8	104
Cobalt		50	8-13	12	30	99	138	6	6	25
Copper		63	9-32	46	100	652	979	6	16	108
Iron		-	-	-	-	-	-	-	-	97700
Lead		140	<5-13	34	69	2750	4670	<5	5	156
Mercury		6.6	<0.05	0.06	0.06	6.13	10.3	<0.05	<0.05	-
Molybdenum		10	<1	<1	1	6	8	<1	<1	2
Nickel		50	8-24	48	62	360	444	8	8	76
Selenium		1	<0.2	<0.2	<0.2	2.6	4.4	<0.2	<0.2	-
Silver		20	8-16	140	9	2920	8030	8	3	35
Thallium		1	<1	<1	<1	<1	<1	<1	<1	<1
Tin		50	<5	<5	<5	<5	<5	<5	<5	-
Uranium		-	<40	<40	<40	<40	<40	<40	<40	-
Vanadium		130	23-54	40	100	106	100	20	22	78
Zinc		200	30-60	60	140	780	1140	40	30	172

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Soil Analytical Data
Barrel Storage Area

Table 8: PHC Concentrations in Soils

PARAMETER	CRITERIA mg/kg	ET 1169	ET 1170	ET 1171
Depth (cm)		15	12	7
Benzene	0.0095	<0.005	<0.005	<0.005
Toluene	0.37	<0.01	<0.01	<0.01
Ethylbenzene	0.082	<0.01	<0.01	<0.01
Xylene	11	<0.01	<0.01	<0.01
F1 C6-C10	30	<5	<5	<5
F2 C10-C16	150	<5	<5	<5
F3 C16-C34	400	45	9	<5
F4 C34-C50	2800	32	<5	<5

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Coarse Grained Soil
- 2) Benzene Criteria is based on a 10^{-6} incremental risk
- 3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Coarse Grained Soil

Table 9: Metals Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	Background Range	ET 1169	ET 1170	ET 1070 Dup. of 1170	ET 1171	ET 1171B	ET 1172
Depth (cm)			15	12	12	7	15	10
Antimony	20	<0.2	<0.2	<0.2	<0.2	1.0	<0.2	<0.2
Arsenic	12	0.5-2.1	14.0	29.2	31.4	50.7	39.8	1.2
Barium	500	37-104	669	847	587	1790	1240	21
Beryllium	4	<1	<1	<1	<1	<1	<1	<1
Cadmium	10	<0.5	<0.5	<0.5	<0.5	0.7	0.8	<0.5
Chromium	64	10.6-45.0	28.8	28.1	29.4	93.6	78.0	4.8
Cobalt	50	8-13	11	11	11	23	19	4
Copper	63	9-32	33	38	38	93	81	5
Lead	140	<5-13	61	78	56	307	341	<5
Mercury	6.6	<0.05	<0.05	0.09	<0.05	0.15	<0.05	<0.05
Molybdenum	10	<1	<1	<1	<1	<1	<1	<1
Nickel	50	8-24	29	47	62	110	86	6
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	20	8-16	3	5	28	2	21	7
Thallium	1	<1	<1	<1	<1	<1	<1	<1
Tin	50	<5	<5	<5	<5	<5	<5	<5
Uranium	-	<40	<40	<40	<40	<40	<40	<40
Vanadium	130	23-54	43	42	38	110	92	15
Zinc	200	30-60	100	100	90	310	310	30

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Camp Dump

Table 10: Metals Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	Background Range	ET 1175	ET 1176	ET 1177	ET 1178	ET 1179	ET 1180	ET 1181	ET 1182	Rescan 2003 Landfill 1	Camp-1
Depth (cm)												
Aluminum	-	-	10	15	20	25	25	25	30	25	6000	25300
Antimony	20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Arsenic	12	0.5-2.1	16.4	1.2	0.8	1.0	1.7	0.8	0.5	1.3	2.8	17.2
Barium	500	37-104	546	31	39	45	33	29	20	85	56	119
Beryllium	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1
Chromium	64	10.6-45.0	55.9	13.2	11.5	14.1	10.1	8.1	9.2	36.8	24	166
Cobalt	50	8-13	33	6	7	7	6	5	5	10	6	24
Copper	63	9-32	177	16	24	16	16	14	11	42	21	90
Iron	-	-	-	-	-	-	-	-	-	-	14700	58400
Lead	140	<5-13	237	<5	<5	7	13	<5	6	7	7	74
Manganese	-	-	-	-	-	-	-	-	-	-	197	1220
Mercury	6.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Molybdenum	10	<1	1	<1	<1	<1	<1	<1	<1	<1	2	11
Nickel	50	8-24	44	12	11	12	10	7	8	21	16	89
Selenium	1	<0.2	0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Silver	20	8-16	9	4	<1	<1	3	<1	<1	<1	3	63
Strontium	-	-	-	-	-	-	-	-	-	-	13	22
Thallium	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tin	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-
Uranium	-	<40	<40	<40	<40	<40	<40	<40	<40	<40	-	-
Vanadium	130	23-54	104	23	27	29	24	25	21	47	28	93
Zinc	200	30-60	160	30	40	40	40	30	30	60	42	138

NOTES:

1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

2) Exceedance indicated with shading

Table 11: PHC Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1175	ET 1176	ET 1177	ET 1178	ET 1179	ET 1180	ET 1181	ET 1182	Rescan 2003 Landfill 1	Camp-1
Depth (cm)											
Benzene	0.0068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.05
Toluene	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.1	<0.1
Ethylbenzene	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.1
Xylene	2.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.3	<0.3
F1 C6-C10	260	<5	<5	<5	<5	<5	<5	<5	<5	-	-
F2 C10-C16	900	<5	<5	<5	<5	<5	<5	<5	<5	-	-
F3 C16-C34	800	87	7	27	49	13	<5	7	100	-	-
F4 C34-C50	5600	55	<5	11	14	12	6	<5	7	-	-

NOTES:

1) BTEX Criteria based on 2004 CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Fine Grained Soil

2) Benzene Criteria is based on a 10^{-6} incremental risk

3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Fine Grained Soil

4) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Camp Dump

Table 12: PAH Concentrations in Soils

PARAMETER Depth (cm):	CRITERIA (mg/kg)	ET 1175 10	ET 1176 15	ET 1177 20	ET 1178 25	ET 1179 25	ET 1180 25	ET 1181 30	ET 1182 25
Naphthalene	0.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Quinoline	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	0.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(a,h)anthracene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Table 13: Pesticide Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1175	ET 1176	ET 1179
p,p'-DDD	-	<0.005	<0.005	<0.005
p,p'-DDE	-	<0.005	<0.005	<0.005
p,p'-DDT	0.7	<0.005	<0.005	<0.005
Aldrin	-	<0.005	<0.005	<0.005
alpha-BHC	-	<0.005	<0.005	<0.005
beta-BHC	-	<0.005	<0.005	<0.005
gamma-BHC (Lindane)	-	<0.005	<0.005	<0.005
Quintozine (PCNB)	-	<0.005	<0.005	<0.005
cis-Chlordane	-	<0.005	<0.005	<0.005
trans-Chlordane	-	<0.005	<0.005	<0.005
Dieldrin	-	<0.005	<0.005	<0.005
Endosulfan I	-	<0.005	<0.005	<0.005
Endosulfan II	-	<0.005	<0.005	<0.005
Endrin	-	<0.005	<0.005	<0.005
Heptachlor	-	<0.005	<0.005	<0.005
Methoxychlor	-	<0.005	<0.005	<0.005
Mirex	-	<0.005	<0.005	<0.005
Nonachlor	-	<0.005	<0.005	<0.005
Oxychlorodane	-	<0.005	<0.005	<0.005

NOTES:

- 1) Criteria based on
- 2) Exceedance indicated with shading

Table 14: PCB Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1179	ET 1181
Aroclor 1016	-	<0.01	<0.01
Aroclor 1221	-	<0.01	<0.01
Aroclor 1232	-	<0.01	<0.01
Aroclor 1242	-	<0.01	<0.01
Aroclor 1248	-	<0.01	<0.01
Aroclor 1254	-	<0.01	<0.01
Aroclor 1260	-	<0.01	<0.01
Aroclor 1262	-	<0.01	<0.01
Aroclor 1268	-	<0.01	<0.01
Total PCBs	1.3	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Garage Area

Table 15: PHC Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1111	ET 1112	ET 1113	Rescan Environmental 2003 Data			
					Gar-1A	Gar-1B	Gar-2A	Gar-2B
Depth (cm)		8	10	8	10	30	10	30
Benzene	0.0095	<0.005	<0.005	<0.005	<0.05	<0.05	<0.05	<0.05
Toluene	0.37	0.01	0.01	<0.01	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	0.082	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1
Xylene	11	<0.01	<0.01	<0.01	<0.3	<0.3	<0.3	<0.3
F1 C6-C10	30	<5	<5	<5	<20	<20	<20	<20
F2 C10-C16	150	730	<5	<5	<10	470	30	70
F3 C16-C34	400	8500	19000	36	1800	2500	5300	4400
F4 C34-C50	2800	5000	4300	23	4800	740	490	410

NOTES:

- 1) BTEX Criteria based on the 2004 CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Coarse Grained Soil
- 2) Benzene Criteria is based on a 10⁻⁶ incremental risk
- 3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Coarse Grained Soil
- 4) Exceedance indicated with shading

Table 16: PAH Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1111	ET 1112
Naphthalene	0.6	<0.1	<0.1
Quinoline	-	<0.1	<0.1
Phenanthrene	5	<0.1	<0.1
Pyrene	10	0.1	<0.1
Benzo(a)anthracene	1	<0.1	<0.1
Benzo(b)fluoranthene	1	<0.1	<0.1
Benzo(k)fluoranthene	1	<0.1	<0.1
Benzo(a)pyrene	0.7	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	1	<0.1	<0.1
Dibenzo(a,h)anthracene	1	<0.1	<0.1

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use

Table 17: Metals Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	Background Range	ET 1111	ET 1112	ET 1113	Rescan Environmental 2003 Data			
						Gar-1A	Gar-1B	Gar-2A	Gar-2B
Aluminum	-	-	-	-	-	19800	24400	12800	14500
Antimony	20	<0.2	2.1	1.0	2.1	-	-	-	-
Arsenic	12	0.5-2.1	43.5	11.4	16.9	33.1	16.9	6.1	10.1
Barium	500	37-104	401	474	1010	138	152	455	406
Beryllium	4	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	10	<0.5	4.1	1.4	3.4	4.3	6.9	<0.5	<0.5
Chromium	64	10.6-45.0	68.4	27.3	93.6	101	136	106	74
Cobalt	50	8-13	84	19	37	60	81	15	14
Copper	63	9-32	134	64	203	152	426	84	112
Cyanide (free)	0.9	-	-	-	-	<0.1	<0.1	<0.1	<0.1
Iron	-	-	-	-	-	50000	64600	49000	57600
Lead	140	<5-13	280	26	170	420	110	28	42
Manganese	-	-	-	-	-	820	932	1120	1200
Mercury	6.6	<0.05	0.58	0.09	1.06	-	-	-	-
Molybdenum	10	<1	3	1	2	4	5	11	10
Nickel	50	8-24	108	22	88	94	105	51	35
Selenium	1	<0.2	1.3	<0.2	<0.2	-	-	-	-
Silver	20	8-16	202	4	946	117	50	2	2
Strontium	-	-	-	-	-	19	17	20	20
Thallium	1	<1	<1	<1	<1	<1	<1	<1	<1
Tin	50	<5	<5	<5	<5	-	-	-	-
Uranium	-	<40	<40	<40	<40	-	-	-	-
Vanadium	130	23-54	94	50	136	83	69	33	33
Zinc	200	30-60	330	180	190	329	142	74	120

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Table 18: PCB Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1111	Rescan Environmental 2003 Data			
			Gar-1A	Gar-1B	Gar-2A	Gar-2B
Aroclor 1016	-	<0.01	-	-	-	-
Aroclor 1221	-	<0.01	-	-	-	-
Aroclor 1232	-	<0.01	-	-	-	-
Aroclor 1242	-	<0.01	-	-	-	-
Aroclor 1248	-	<0.01	-	-	-	-
Aroclor 1254	-	<0.01	-	-	-	-
Aroclor 1260	-	<0.01	-	-	-	-
Aroclor 1262	-	<0.01	-	-	-	-
Aroclor 1268	-	<0.01	-	-	-	-
Total PCBs	1.3	<0.05	<0.1	<0.1	<0.1	<0.1

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Muskeg Area below Rock Piles

Table 19: PHC Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1100	ET 1101	ET 1108	ET 1109
Depth (cm)		30	30	35	35
Benzene	0.0068	<0.005	<0.005	<0.005	<0.005
Toluene	0.08	<0.01	0.02	0.01	0.01
Ethylbenzene	0.018	<0.01	<0.01	<0.01	<0.01
Xylene	2.4	<0.01	<0.01	<0.01	<0.01
F1 C6-C10	260	<5	<5	<5	<5
F2 C10-C16	900	<5	12	<5	<5
F3 C16-C34	800	<5	2300	45	15
F4 C34-C50	5600	<5	970	42	11

NOTES:

- 1) BTEX Criteria based on 2004 CCME Soil Quality Guidelines for Residential/Parkland Land-Use for Fine Grained Soil
- 2) Benzene Criteria is based on a 10^{-6} incremental risk
- 3) F1-F4 Criteria based on CCME Tier 1 Canada Wide Standards for PHCs in Soil for Residential Land Use and Fine Grained Soil
- 4) Exceedance indicated with shading

Table 20: PAH Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1100	ET 1101
Naphthalene	0.6	<0.01	<0.01
Quinoline	-	<0.01	<0.01
Phenanthrene	5	<0.01	<0.01
Pyrene	10	<0.01	<0.01
Benzo(a)anthracene	1	<0.01	<0.01
Benzo(b)fluoranthene	1	<0.01	<0.01
Benzo(k)fluoranthene	1	<0.01	<0.01
Benzo(a)pyrene	0.7	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	1	<0.01	<0.01
Dibenzo(a,h)anthracene	1	<0.01	<0.01

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Table 21: Metals Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	Background	ET 1100	ET 1101	ET 1108	ET 1109
Antimony	20	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic	12	0.5-2.1	0.8	3.0	0.7	3.1
Barium	500	37-104	13	200	18	118
Beryllium	4	<1	<1	<1	<1	<1
Cadmium	10	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	64	10.6-45.0	7.2	73.5	6.5	48.5
Cobalt	50	8-13	4	15	5	12
Copper	63	9-32	2	63	3	21
Lead	140	<5-13	8	11	<5	8
Mercury	6.6	<0.05	<0.05	<0.05	<0.05	<0.05
Molybdenum	10	<1	<1	2	<1	<1
Nickel	50	8-24	5	34	6	25
Selenium	1	<0.2	<0.2	0.2	<0.2	<0.2
Silver	20	8-16	<1	<1	<1	<1
Thallium	1	<1	<1	<1	<1	<1
Tin	50	<5	<5	<5	<5	<5
Uranium	-	<40	<40	<40	<40	<40
Vanadium	130	23-54	17	82	16	51
Zinc	200	30-60	20	100	20	60

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Table 22: PCB Concentrations in Soils

PARAMETER	CRITERIA (mg/kg)	ET 1100
Aroclor 1016	-	<0.01
Aroclor 1221	-	<0.01
Aroclor 1232	-	<0.01
Aroclor 1242	-	<0.01
Aroclor 1248	-	<0.01
Aroclor 1254	-	<0.01
Aroclor 1260	-	<0.01
Aroclor 1262	-	<0.01
Aroclor 1268	-	<0.01
Total PCBs	1.3	<0.05

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential/Parkland Land-Use
- 2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site Summary of Analytical Data
Surface Water Samples

Table 23: Routine Water Chemistry

PARAMETER	CRITERIA mg/L	Stream Mouth	SW-01	SW-03	Drinking Water Lake	Roberts Lake	Roberts Lake Background	Trip Blank
pH	6.5-8.5	7.7	7.9	7.9	7.5	6.9	6.9	6.1
Conductivity (EC)	-	479	495	279	173	244	353	0.9
Total Organic Carbon	-	13	7	10	13	4	6	-
TDS (Calculated)	-	246	284	149	90	123	172	1
Nitrate+Nitrite-N	-	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate-N	-	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrite-N	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hardness (as CaCO ₃)	-	121	175	111	58	39	52	<1
Bicarbonate (HCO ₃)	-	76	180	86	56	29	26	<5
Carbonate (CO ₃)	-	<5	<5	<5	<5	<5	<5	<5
Alkalinity, Total (as CaCO ₃)	-	62	147	70	46	24	21	<5
Calcium	-	25.2	46.3	30.8	14.3	5.7	6.3	<0.5
Chloride	-	96	39	36	28	61	90	1
Magnesium	-	14.0	14.5	8.3	5.5	6.0	8.8	<0.1
Sodium	-	48	39	13	11	29	44	<1
Sulfate	-	23.2	52.1	17.8	1.4	4.7	7.7	<0.5
Iron	0.3	0.210	0.021	0.075	-	0.039	0.063	<0.005
Manganese	-	0.002	0.001	0.001	-	0.001	0.001	<0.001

NOTES:

1) Criteria based on CCME Freshwater and Aquatic Life Criteria

Table 24: Pesticides in Surface Water

PARAMETER	CRITERIA mg/L	SW-01 mg/L	SW-03 mg/L
p,p'-DDD	-	<0.0003	<0.0003
p,p'-DDE	-	<0.0003	<0.0003
p,p'-DDT	-	<0.0003	<0.0003
Aldrin	-	<0.0003	<0.0003
alpha-BHC	-	<0.0003	<0.0003
beta-BHC	-	<0.0003	<0.0003
gamma-BHC (Lindane)	-	<0.0003	<0.0003
Quintozine (PCNB)	-	<0.0003	<0.0003
cis-Chlordane	-	<0.0003	<0.0003
trans-Chlordane	-	<0.0003	<0.0003
Dieldrin	-	<0.0003	<0.0003
Endosulfan I	-	<0.0003	<0.0003
Endosulfan II	-	<0.0003	<0.0003
Endrin	-	<0.0003	<0.0003
Heptachlor	-	<0.0003	<0.0003
Methoxychlor	-	<0.0003	<0.0003
Mirex	-	<0.0003	<0.0003
Nonachlor	-	<0.0003	<0.0003
Oxychlordane	-	<0.0003	<0.0003

Table 25: PHC and PCBs Concentrations in Surface Waters

PARAMETER	CRITERIA mg/L	Stream Mouth	SW-01	SW-03	North of Fuel Bladders	Roberts Lake	Roberts Lake Background	Trip Blank
Benzene	0.37	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.09	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylene	0.18	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
F1 C6-C10	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
F2 C10-C16	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total PCB	-	<0.00005	<0.00005	<0.00005	-	<0.00005	<0.00005	<0.00005

NOTES:

1) Criteria based on CCME Freshwater and Aquatic Life Criteria

Roberts Bay - Abandoned Mine Site Summary of Analytical Data
Surface Water Samples

Table 26: Total Metals in Surface Waters

PARAMETER	CRITERIA mg/L	Stream Mouth	SW-01	SW-02	SW-03	North of Bladder	Roberts Lake	Roberts Lake Background	Trip Blank
Silver (Ag)	0.0001	<0.0004	<0.0004	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
Aluminum (Al)	0.1	0.22	0.13	0.04	0.05	<0.02	0.08	0.050	<0.02
Arsenic (As)	0.005	0.0005	0.0007	0.0031	<0.0004	0.0005	0.0004	0.0006	<0.0004
Boron (B)	-	0.03	0.05	0.03	<0.02	<0.02	0.02	0.03	<0.02
Barium (Ba)	-	0.0204	0.0404	0.0476	0.0100	0.145	0.0044	0.0095	<0.0002
Beryllium (Be)	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth (Bi)	-	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium (Cd)	0.00017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Cobalt (Co)	-	<0.0002	<0.0002	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002
Chromium (Cr)	0.0089	0.0005	<0.0004	<0.0004	<0.0004	0.0004	<0.0004	<0.0004	<0.0008
Copper (Cu)	0.003	0.0004	0.0005	0.0005	0.0004	0.002	0.003	0.003	<0.001
Molybdenum (Mo)	0.073	0.0004	0.0015	0.0016	0.0001	0.0005	0.0002	0.0002	<0.0001
Nickel (Ni)	0.65	0.0017	<0.0002	<0.0002	0.0002	<0.0002	0.0007	0.0009	<0.0002
Lead (Pb)	0.007	<0.0001	0.0020	0.0006	<0.0001	0.0004	0.0004	0.0001	<0.0001
Antimony (Sb)	-	0.0005	0.0010	0.0032	0.0005	0.0016	0.0008	0.0005	0.0006
Selenium (Se)	0.001	0.0008	<0.0004	<0.0004	<0.0004	0.0005	<0.0004	<0.0004	<0.0004
Tin (Sn)	-	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Strontium (Sr)	-	0.111	0.133	0.129	0.0572	1.04	0.0373	0.0511	<0.0002
Titanium (Ti)	-	0.008	0.006	<0.005	<0.005	<0.005	<0.005	0.010	<0.005
Thallium (Tl)	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium (U)	-	0.0003	0.0015	0.0007	<0.0001	0.0005	<0.0001	<0.0001	<0.0001
Vanadium (V)	-	0.0004	0.0006	<0.0002	0.0002	<0.0002	0.0004	0.0008	<0.0002
Zinc (Zn)	0.03	<0.004	0.006	0.011	0.005	0.006	0.006	<0.004	<0.004

NOTES:

1) Criteria based on CCME Freshwater and Aquatic Life Criteria

2) Exceedance indicated with shading

Table 27: Dissolved Metals in Surface Waters

PARAMETER	CRITERIA mg/L	Stream Mouth	SW-01	SW-02	SW-03	North of Bladder	Roberts Lake	Roberts Lake Background	Trip Blank
Silver (Ag)	0.0001	0.0005	0.0004	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Aluminum (Al)	0.1	0.06	0.02	<0.01	0.01	<0.01	<0.01	0.07	<0.01
Arsenic (As)	0.005	0.0005	0.0004	0.0032	<0.0004	0.0041	<0.0004	<0.0004	<0.0004
Boron (B)	-	0.032	0.058	0.077	0.010	0.015	0.022	0.025	<0.002
Barium (Ba)	-	0.0163	0.0265	0.0389	0.0061	0.118	0.0025	0.0034	<0.0001
Beryllium (Be)	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bismuth (Bi)	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium (Cd)	0.00017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cobalt (Co)	-	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001
Chromium (Cr)	0.0089	0.0005	<0.0004	<0.0004	<0.0004	0.0004	<0.0004	<0.0004	0.0004
Copper (Cu)	0.003	0.0033	0.0042	0.0041	0.0030	0.0010	0.0005	0.0016	<0.0006
Molybdenum (Mo)	0.073	0.0004	0.0015	0.0016	0.0004	0.0005	0.0003	0.0003	<0.0001
Nickel (Ni)	0.65	0.0013	<0.0001	0.0003	0.0002	<0.0001	0.0007	0.0004	<0.0001
Lead (Pb)	0.007	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Antimony (Sb)	-	0.0010	0.0010	0.0032	0.0005	0.0013	0.0005	0.0005	0.0006
Selenium (Se)	0.001	0.0011	0.0007	0.0006	<0.0004	0.0012	<0.0004	<0.0004	<0.0004
Tin (Sn)	-	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Strontium (Sr)	-	0.110	0.130	0.124	0.0493	1.03	0.0377	0.0504	<0.0001
Titanium (Ti)	-	0.0016	0.0007	0.0006	0.0006	0.0019	0.0003	0.0005	<0.0003
Thallium (Tl)	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Uranium (U)	-	0.0002	0.0014	0.0006	<0.0001	0.0005	<0.0001	<0.0001	<0.0001
Vanadium (V)	-	0.0001	0.0002	0.0001	0.0004	<0.0001	0.0005	0.0005	0.0003
Zinc (Zn)	0.03	0.003	0.006	0.009	0.006	0.003	0.003	0.002	<0.002

NOTES:

1) Criteria based on CCME Freshwater and Aquatic Life Criteria

2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Roberts Lake Sediments

Table 28: PHC Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	Rob LK 01	Rob LK 02	Rob LK 03	Rob LK Middle	Rob LK Background
Benzene	-	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	-	0.03	0.02	0.02	0.02	0.01
Ethylbenzene	-	<0.01	<0.01	<0.01	<0.01	<0.01
Xylene	-	<0.01	<0.01	<0.01	<0.01	<0.01
F1 C6-C10	-	<5	<5	<5	<5	<5
F2 C10-C16	-	<5	<5	<5	<5	<5
F3 C16-C34	-	30	24	29	9	37
F4 C34-C50	-	12	6	11	<5	17

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection for Freshwater
- 2) Exceedance indicated with shading

Table 30: Metals Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	Rob LK 01	Rob LK 02	Rob LK 03	Rob LK 04	Rob LK BKGD Dup. of Rob LK04	Rob LK Middle
Antimony	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic	5.9	2.6	1.7	2.5	9.2	8.7	5.1
Barium	-	108	62	82	111	106	141
Beryllium	-	<1	<1	<1	<1	<1	<1
Cadmium	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	37.3	63	29.6	40.5	57.9	59.5	70.4
Cobalt	-	11	8	10	12	12	14
Copper	35.7	20	14	22	30	30	25
Lead	35.0	8	7	7	25	21	12
Mercury	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Molybdenum	-	<1	<1	<1	3	4	<1
Nickel	-	32	17	22	31	31	35
Selenium	-	<0.2	<0.2	<0.2	0.4	0.3	<0.2
Silver	-	<1	<1	<1	3	3	<1
Thallium	-	<1	<1	<1	<1	<1	<1
Tin	-	<5	<5	<5	<5	<5	<5
Uranium	-	<40	<40	<40	<40	<40	<40
Vanadium	-	61	35	48	66	65	70
Zinc	123	80	40	60	80	80	90

NOTES:

- 1) Criteria based on Interim CCME Sediment Quality Guidelines for the Protection for Freshwater
- 2) Exceedance indicated with shading

Table 29: PAH Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	Rob LK 02	Rob LK Middle	Rob LK Background
Naphthalene	0.0346	<0.01	<0.01	<0.01
Quinoline	-	<0.01	<0.01	<0.01
Phenanthrene	0.0419	<0.01	<0.01	<0.01
Pyrene	0.0330	<0.01	<0.01	<0.01
Benzo(a)anthracene	0.0317	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	-	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	-	<0.01	<0.01	<0.01
Benzo(a)pyrene	0.0319	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	-	<0.01	<0.01	<0.01
Dibenzo(a,h)anthracene	0.00622	<0.01	<0.01	<0.01

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection for Freshwater
- 2) Exceedance indicated with shading

Table 31: PCB Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	Rob LK 01	Rob LK 02	Rob LK 03	Rob LK Middle	Rob LK Background
Aroclor 1016	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1221	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1232	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1248	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1254	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1260	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1262	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1268	-	<0.01	<0.01	<0.01	<0.01	<0.01
Total PCBs	0.0341	<0.05	<0.05	<0.05	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection for Freshwater
- 2) Exceedance indicated with shading

Ida Bay - Abandoned Mine Site
Summary of Analytical Data
Ida Bay Sediments

Table 35: PHC Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	IDA 01	IDA 02	IDA 04 Background
Benzene	-	<0.005	<0.005	<0.005
Toluene	-	0.01	<0.01	<0.01
Ethylbenzene	-	<0.01	<0.01	<0.01
Xylene	-	<0.01	<0.01	<0.01
F1 C6-C10	-	<5	<5	<5
F2 C10-C16	-	<5	<5	<5
F3 C16-C34	-	<5	6	18
F4 C34-C50	-	<5	<5	11

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection of Marine Aquatic Life
- 2) Exceedance indicated with shading

Table 36: PAH Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	IDA 02	IDA 04 Background
Naphthalene	0.0346	<0.01	<0.01
Quinoline	-	<0.01	<0.01
Phenanthrene	0.0867	<0.01	<0.01
Pyrene	0.153	<0.01	<0.01
Benzo(a)anthracene	0.0748	<0.01	<0.01
Benzo(b)fluoranthene	-	<0.01	<0.01
Benzo(k)fluoranthene	-	<0.01	<0.01
Benzo(a)pyrene	0.0888	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	-	<0.01	<0.01
Dibenzo(a,b)anthracene	0.00622	<0.01	<0.01

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection of Marine Aquatic Life

Table 37: Metals Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	IDA 01	IDA 02	IDA 03	IDA 04 Background
Antimony	-	<0.2	<0.2	<0.2	<0.2
Arsenic	7.24	6.5	2.0	1.4	2.0
Barium	-	108	95	85	51
Beryllium	-	<1	<1	<1	<1
Cadmium	0.7	<0.5	<0.5	<0.5	<0.5
Chromium	52.3	47.9	33.7	41.0	30.8
Cobalt	-	13	10	11	7
Copper	18.7	39	26	28	21
Lead	30.2	49	8	6	<5
Mercury	0.17	<0.05	<0.05	<0.05	<0.05
Molybdenum	-	<1	<1	<1	<1
Nickel	-	31	21	24	17
Selenium	-	<0.2	<0.2	<0.2	<0.2
Silver	-	3	1	<1	<1
Thallium	-	<1	<1	<1	<1
Tin	-	<5	<5	<5	<5
Uranium	-	<40	<40	<40	<40
Vanadium	-	59	46	53	39
Zinc	124	80	60	70	40

NOTES:

- 1) Criteria based on Interim CCME Sediment Quality Guidelines for the Protection of Marine Aquatic Life
- 2) Exceedance indicated with shading

Table 38: PCB Concentrations in Sediment

PARAMETER	CRITERIA (mg/kg)	IDA 02	IDA 04 Background
Aroclor 1016	-	<0.01	<0.01
Aroclor 1221	-	<0.01	<0.01
Aroclor 1232	-	<0.01	<0.01
Aroclor 1242	-	<0.01	<0.01
Aroclor 1248	-	<0.01	<0.01
Aroclor 1254	0.0633	<0.01	<0.01
Aroclor 1260	-	<0.01	<0.01
Aroclor 1262	-	<0.01	<0.01
Aroclor 1268	-	<0.01	<0.01
Total PCBs	0.0215	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Sediment Quality Guidelines for the Protection of Marine Aquatic Life
- 2) Exceedance indicated with shading

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
Leachate Analysis

Table 39: TCLP Leachate Metal Concentrations in Soils

PARAMETER	CRITERIA* (mg/L)	ET 1168	ET 1175
Arsenic (As)	5	<5	<5
Boron (B)	500	<5	<5
Barium (Ba)	100	<0.5	<0.5
Beryllium (Be)	5	0.20	<0.05
Cadmium (Cd)	1	<5	<5
Cobalt (Co)	100	<0.5	<0.5
Chromium (Cr)	5	<5	<5
Copper (Cu)	100	<5	<5
Iron (Fe)	1000	<0.01	<0.01
Mercury (Hg)	0.2	1.1	<0.5
Nickel (Ni)	5	42.7	<0.5
Lead (Pb)	5	<5	<5
Antimony (Sb)	500	<0.2	<0.2
Selenium (Se)	1	<0.5	<0.5
Thallium (Tl)	5	<0.2	<0.2
Uranium (U)	2	<5	<5
Vanadium (V)	100	9	<5
Zinc (Zn)	500	<5	<5

NOTE:

Referenced criteria is Table 2 of the Alberta Users Guide for Waste Managers

Table 40: Results of BCMEM Shakeflask Extraction on Roberts Bay Samples

Parameter	Units	Detection Limit	ET-1168	ET-1113	ET-1165	ET-1171	IDA-01 Sediment
pH			7.9	7.5	8.0	8.1	8.0
Aluminum	mg/L	0.001	0.1	0.006	0.29	0.26	0.1
Antimony	mg/L	0.0002	0.037	0.118	0.195	0.03	0.001
Arsenic	mg/L	0.0002	0.068	0.099	0.217	0.196	0.0053
Barium	mg/L	0.0002	0.111	0.0016	0.09	0.137	0.012
Beryllium	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Bismuth	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron	mg/L	0.01	0.03	0.03	0.06	0.04	0.44
Cadmium	mg/L	0.00004	0.00034	0.00014	0.00087	0.0001	<0.00004
Calcium	mg/L	0.01	27.8	34.3	40.9	29.5	16.7
Chromium	mg/L	0.0002	<0.0002	<0.0002	0.0034	0.0011	0.0006
Cobalt	mg/L	0.0002	0.0007	0.0006	0.0012	0.0008	<0.0002
Copper	mg/L	0.0002	0.011	0.013	0.022	0.022	0.018
Iron	mg/L	0.01	<0.01	<0.01	0.54	0.28	0.05
Lead	mg/L	0.0002	0.043	0.0002	0.05	0.023	<0.0002
Lithium	mg/L	0.0002	0.011	0.011	0.0018	0.004	0.024
Magnesium	mg/L	0.01	4.25	3.33	2.59	5.44	20.7
Manganese	mg/L	0.0002	0.025	0.025	0.057	0.014	0.014
Nickel	mg/L	0.0002	0.0096	0.0091	0.032	0.012	0.0013
Potassium	mg/L	0.02	3.13	11.6	3.14	4.85	19.5
Selenium	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SiO ₂	mg/L	0.05	1.44	7.24	3.23	3.65	5.15
Silver	mg/L	0.00005	0.00	0.00	0.01	0.00	<0.00005
Sodium	mg/L	0.01	4.62	2.26	4.55	3.9	526
Sr	mg/L	0.0002	0.043	0.018	0.054	0.046	0.200
Tellurium	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Thallium	mg/L	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Thorium	mg/L	0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Tin	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Titanium	mg/L	0.0002	<0.0002	0.0098	0.01	0.0049	0.0026
Uranium	mg/L	0.0001	0.0001	<0.0001	0.0004	0.0015	0.0004
Vanadium	mg/L	0.0002	<0.0002	0.013	0.0016	0.002	0.0064
Zinc	mg/L	0.001	0.01	0.005	0.063	0.025	0.003

NOTES:

Bold values exceed CCME criteria

Solid to liquid ratio : 1:3 (50g to 150mL) due to insufficient sample weight.

Roberts Bay - Abandoned Mine Site
Summary of Analytical Data
QA/QC

Table 41: QA/QC Summary

PARAMETER	ET 1168	1068 Duplicate of ET 1168	RPD	ET 1170	ET 1070 Dup. of 1170	RPD	IDA Background	IDA 06 Dup of Background	RPD
Antimony	19.8	19.0	4	<0.2	<0.2		<0.2	<0.2	
Arsenic	379	521	32	29.2	31.4	7	1.0	0.3	108
Barium	402	352	13	847	587	36	37	23	47
Beryllium	<1	<1		<1	<1		<1	<1	
Cadmium	4.9	7.5	42	<0.5	<0.5		<0.5	<0.5	
Chromium	67.4	67.8	1	28.1	29.4	5	11.0	7.9	33
Cobalt	99	138	33	11	11	0	5	4	22
Copper	652	979	40	38	38	0	16	11	37
Lead	2750	4670	52	78	56	33	8	5	46
Mercury	6.13	10.3	51	0.09	<0.05		<0.05	<0.05	
Molybdenum	6	8	29	<1	<1		<1	<1	
Nickel	360	444	21	47	62	28	9	6	40
Selenium	2.6	4.4	51	<0.2	<0.2		<0.2	<0.2	
Silver	2920	8030	93	5	28	139	45	22	69
Thallium	<1	<1		<1	<1		<1	<1	
Tin	<5	<5		<5	<5		<5	<5	
Uranium	<40	<40		<40	<40		<40	<40	
Vanadium	106	100	6	42	38	10	22	18	20
Zinc	780	1140	38	100	90	11	30	30	0

PARAMETER	Rob LK 04	Rob LK BKGD Dup. of Rob LK04	RPD
Antimony	<0.2	<0.2	
Arsenic	9.2	8.7	6
Barium	111	106	5
Beryllium	<1	<1	
Cadmium	<0.5	<0.5	
Chromium	57.9	59.2	2
Cobalt	12	12	0
Copper	30	30	0
Lead	25	21	17
Mercury	<0.05	<0.05	
Molybdenum	3	4	29
Nickel	31	31	0
Selenium	0.4	0.3	29
Silver	3	3	0
Thallium	<1	<1	
Tin	<5	<5	
Uranium	<40	<40	
Vanadium	66	65	2
Zinc	80	80	0

APPENDIX E

SURFACE WATER FIELD DATA



A Tyco International Ltd. Company

Surface Water Sampling Record

Site Name:	Roberts Bay Mine Site
Date:	Aug 20 / 05
Name:	Woollett / Osiovy
Job Number:	88045

Location:	Stream mouth upstream of Roberts Lake	
Sample Collected:	Stream mouth	
Sample Name:	Stream mouth	
Parameters:	Routine, metals, hydrocarbons	
Containers:	PCBS	
	N7562737 E435568	
Parameter	Field Value	Units
Temperature	9.9	°C
pH	7.64	
DO	-	
EC	0.46	mS
Turbidity	-	
TDS	-	

Location:	NEAR ET-1100 in ditch	
Sample Collected:	Surface water in ditch	
Sample Name:	SW-01	
Parameters:	metals routine, pesticides	
Containers:	hydrocarbons	
	N7563735 E435427	
Parameter	Field Value	Units
Temperature	13.9	°C
pH	7.2	
DO	-	
EC	0.5	mS
Turbidity	-	
TDS	-	

Location:	NE of shaft	
Sample Collected:	near pump house	
Sample Name:	Drinking water Lake	
Parameters:	Routine	
Containers:		
	N7564073 E435701	
Parameter	Field Value	Units
Temperature	14.2	°C
pH	8.33	
DO	-	
EC	0.16	mS
Turbidity	-	
TDS	-	

Location:	North of Fuel bladder	
Sample Collected:	Surface water in pond	
Sample Name:	North of bladder	
Parameters:	PCB, Hydrocarbons, metals	
Containers:		
	N7563904 E435481	
Parameter	Field Value	Units
Temperature	15.8	°C
pH	7.89	
DO	-	
EC	0.49	mS
Turbidity	-	
TDS	-	



A Tyco International Ltd. Company

Surface Water Sampling Record

Site Name:	Roberts Bay Mine Site
Date:	Aug 20 / 05
Name:	Woollett / Osiony
Job Number:	88045

Location:	West of tailings pond	
Sample Collected:	Surface Water	
Sample Name:	SW-02	
Parameters:	hydrocarbons, metals	
Containers:	N7563757 E435302	
Parameter	Field Value	Units
Temperature	14.6	°C
pH	8.15	
DO	—	
EC	0.81	MS
Turbidity	—	
TDS	—	

Location:	~100m W of camp dump	
Sample Collected:	Surface Water	
Sample Name:	SW-03	
Parameters:	metals, routine, particulates	
Containers:	hydrocarbons	
	N7563587 E435061	
Parameter	Field Value	Units
Temperature	9.8	°C
pH	6.85	
DO	—	
EC	0.59	MS
Turbidity	—	
TDS	—	

Location:	Roberts Lake	
Sample Collected:	near dock	
Sample Name:	Roberts Lake	
Parameters:	metals, routine, hydrocarbons	
Containers:	N7562730 E435429	
Parameter	Field Value	Units
Temperature	11.0	°C
pH	8.54	
DO	—	
EC	0.24	MS
Turbidity		
TDS		

Location:	Lake to South of Roberts Lake	
Sample Collected:	Surface Water	
Sample Name:	Roberts Lake Backwash	
Parameters:	metals, routine, hydrocarbons	
Containers:	N7560954 E435979	
Parameter	Field Value	Units
Temperature	—	
pH	—	
DO	—	
EC	—	
Turbidity	—	
TDS	—	

APPENDIX F

ENVIRO-TEST LABS, VIZON LABS LABORATORY
REPORTS

DEC 19 2005

GW

Edmonton, AB

ANALYTICAL REPORT

EARTH TECH (CANADA) INC

DATE: 05-DEC-05

ATTN: GORD WOOLLETT

17203 103 AVE

EDMONTON AB T5S 1J4

Lab Work Order #: L309982

Sampled By: NOT PROVIDED

Date Received: 25-AUG-05

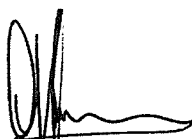
Project P.O. #: E0211-023/96/004/EDM

Project Reference: PWGSC 10390

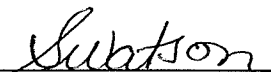
Other Information:

Comments: ADDITIONAL 16-NOV-05 11:47 ADDITIONAL 11-OCT-05 09:31 ADDITIONAL 22-SEP-05 12:16

Sample Specific Comments: L309982-27: PAH detection limit raised due to matrix interference., L309982-28: PAH detection limit raised due to matrix interference., L309982-31: PAH detection limit raised due to matrix interference., L309982-32: PAH detection limit raised due to matrix interference., L309982-45: PAH detection limit raised due to matrix interference., L309982-62: Sample data for BTEX,F1 results unreliable due to the sample being dried and ground prior to extract,



DOUG JOHNSON
Director of Operations, Edmonton



SANDRA WATSON
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-1 STREAM MOUTH ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: WATER								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10)								
Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.210		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.002		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	0.22		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	0.0005		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	0.03		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.0204		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Cobalt (Co)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Chromium (Cr)	<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)	0.004		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)	0.0004		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)	0.0017		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)	0.0005		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)	0.0008		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)	0.111		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)	0.008		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)	0.0003		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)	0.0004		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)	<0.004		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals								
Calcium (Ca)	22.4		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)	2.2		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)	11.6		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)	40		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)	0.329		0.005	mg/L		29-AUG-05	HAS	R318878
Manganese (Mn)	0.014		0.001	mg/L		29-AUG-05	HAS	R318878
Total Organic Carbon	13		1	mg/L		29-AUG-05	ZOW	R318721
PCBs								
Aroclor 1016	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1221	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1232	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1242	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-1	STREAM MOUTH ROBERTS BAY								
Sampled By:	NOT PROVIDED on 20-AUG-05								
Matrix:	WATER								
PCBs									
	Aroclor 1248	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1254	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1260	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1262	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1268	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Total PCBs	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Surr:	Decachlorobiphenyl	78		65-119	%	29-AUG-05	30-AUG-05	HCB	R319444
Dissolved Trace Metals (Low Level)									
	Silver (Ag)	0.0005		0.0002	mg/L		26-AUG-05	CLL	R318107
	Aluminum (Al)	0.06		0.01	mg/L		26-AUG-05	CLL	R318107
	Arsenic (As)	0.0005		0.0004	mg/L		26-AUG-05	CLL	R318107
	Boron (B)	0.032		0.002	mg/L		26-AUG-05	CLL	R318107
	Barium (Ba)	0.0163		0.0001	mg/L		26-AUG-05	CLL	R318107
	Beryllium (Be)	<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
	Bismuth (Bi)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Cadmium (Cd)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Cobalt (Co)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Chromium (Cr)	0.0005		0.0004	mg/L		12-OCT-05	HLA	R335077
	Copper (Cu)	0.0033		0.0006	mg/L		26-AUG-05	CLL	R318107
	Molybdenum (Mo)	0.0004		0.0001	mg/L		26-AUG-05	CLL	R318107
	Nickel (Ni)	0.0013		0.0001	mg/L		26-AUG-05	CLL	R318107
	Lead (Pb)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Antimony (Sb)	0.0007		0.0004	mg/L		26-AUG-05	CLL	R318107
	Selenium (Se)	0.0011		0.0004	mg/L		26-AUG-05	CLL	R318107
	Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
	Strontium (Sr)	0.110		0.0001	mg/L		26-AUG-05	CLL	R318107
	Titanium (Ti)	0.0016		0.0003	mg/L		26-AUG-05	CLL	R318107
	Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Uranium (U)	0.0002		0.0001	mg/L		26-AUG-05	CLL	R318107
	Vanadium (V)	0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Zinc (Zn)	0.003		0.002	mg/L		26-AUG-05	CLL	R318107
Major Ions & Total Metals									
	Chloride (Cl)	96		1	mg/L		29-AUG-05	JTV	R318891
	Nitrate+Nitrite-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
	Nitrate-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
	Nitrite-N	<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity									
	pH	7.7		0.1	pH		26-AUG-05	PTT	R318273
	Conductivity (EC)	479		0.2	uS/cm		26-AUG-05	PTT	R318273
	Bicarbonate (HCO3)	76		5	mg/L		26-AUG-05	PTT	R318273
	Carbonate (CO3)	<5		5	mg/L		26-AUG-05	PTT	R318273
	Hydroxide (OH)	<5		5	mg/L		26-AUG-05	PTT	R318273
	Alkalinity, Total (as CaCO3)	62		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation									
	Ion Balance	103			%		30-AUG-05		
	TDS (Calculated)	246			mg/L		30-AUG-05		
	Hardness (as CaCO3)	121			mg/L		30-AUG-05		
ICP metals and SO4 for routine water									
	Calcium (Ca)	25.2		0.5	mg/L		29-AUG-05	AHY	R318787
	Potassium (K)	2.6		0.5	mg/L		29-AUG-05	AHY	R318787

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-1 STREAM MOUTH ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER Major Ions & Total Metals ICP metals and SO4 for routine water								
Magnesium (Mg)	14.0		0.1	mg/L		29-AUG-05	AHY	R318787
Sodium (Na)	48		1	mg/L		29-AUG-05	AHY	R318787
Sulfate (SO4)	23.2		0.5	mg/L		29-AUG-05	AHY	R318787
L309982-2 SW-01 ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10)								
Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.021		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	0.13		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	0.0007		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	0.05		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.0404		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Cobalt (Co)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Chromium (Cr)	<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)	0.005		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)	0.0015		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)	0.0020		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)	0.0010		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)	0.133		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)	0.006		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)	0.0015		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)	0.0006		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)	0.006		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals								
Calcium (Ca)	40.4		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)	2.1		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)	12.2		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)	33		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)	0.218		0.005	mg/L		29-AUG-05	HAS	R318878

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-2 SW-01 ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: WATER								
Total Metals								
Total Major Metals								
Manganese (Mn)	0.006		0.001	mg/L		29-AUG-05	HAS	R318878
Total Organic Carbon	7		1	mg/L		29-AUG-05	ZOW	R318721
PCBs								
Aroclor 1016	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1221	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1232	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1242	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1248	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1254	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1260	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1262	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1268	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Total PCBs	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Surr: Decachlorobiphenyl	76		65-119	%	29-AUG-05	30-AUG-05	HCB	R319444
OC Screen GC/ECD								
p,p'-DDD	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
p,p'-DDE	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
p,p'-DDT	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Aldrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
alpha-BHC	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
beta-BHC	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
gamma-BHC (Lindane)	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Quintozine (PCNB)	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
cis-Chlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
trans-Chlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Dieldrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Endosulfan I	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Endosulfan II	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Endrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Heptachlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Methoxychlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Mirex	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Nonachlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Oxychlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Dissolved Trace Metals (Low Level)								
Silver (Ag)	0.0004		0.0002	mg/L		26-AUG-05	CLL	R318107
Aluminum (Al)	0.02		0.01	mg/L		26-AUG-05	CLL	R318107
Arsenic (As)	0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
Boron (B)	0.058		0.002	mg/L		26-AUG-05	CLL	R318107
Barium (Ba)	0.0265		0.0001	mg/L		26-AUG-05	CLL	R318107
Beryllium (Be)	<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
Bismuth (Bi)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Cadmium (Cd)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Cobalt (Co)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Chromium (Cr)	<0.0004		0.0004	mg/L		12-OCT-05	HLA	R335077
Copper (Cu)	0.0042		0.0006	mg/L		26-AUG-05	CLL	R318107
Molybdenum (Mo)	0.0015		0.0001	mg/L		26-AUG-05	CLL	R318107
Nickel (Ni)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Lead (Pb)	0.0002		0.0001	mg/L		26-AUG-05	CLL	R318107

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-2 SW-01 ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER								
Dissolved Trace Metals (Low Level)								
Antimony (Sb)	0.0010		0.0004	mg/L		26-AUG-05	CLL	R318107
Selenium (Se)	0.0007		0.0004	mg/L		26-AUG-05	CLL	R318107
Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Strontium (Sr)	0.130		0.0001	mg/L		26-AUG-05	CLL	R318107
Titanium (Ti)	0.0007		0.0003	mg/L		26-AUG-05	CLL	R318107
Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Uranium (U)	0.0014		0.0001	mg/L		26-AUG-05	CLL	R318107
Vanadium (V)	0.0002		0.0001	mg/L		26-AUG-05	CLL	R318107
Zinc (Zn)	0.006		0.002	mg/L		26-AUG-05	CLL	R318107
Major Ions & Total Metals								
Chloride (Cl)	39		1	mg/L		29-AUG-05	JTV	R318891
Nitrate+Nitrite-N	0.5		0.1	mg/L		26-AUG-05	TL	R317948
Nitrate-N	0.5		0.1	mg/L		26-AUG-05	TL	R317948
Nitrite-N	<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity								
pH	7.9		0.1	pH		26-AUG-05	PTT	R318273
Conductivity (EC)	495		0.2	uS/cm		26-AUG-05	PTT	R318273
Bicarbonate (HCO3)	180		5	mg/L		26-AUG-05	PTT	R318273
Carbonate (CO3)	<5		5	mg/L		26-AUG-05	PTT	R318273
Hydroxide (OH)	<5		5	mg/L		26-AUG-05	PTT	R318273
Alkalinity, Total (as CaCO3)	147		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation								
Ion Balance	102			%		30-AUG-05		
TDS (Calculated)	284			mg/L		30-AUG-05		
Hardness (as CaCO3)	175			mg/L		30-AUG-05		
ICP metals and SO4 for routine water								
Calcium (Ca)	46.3		0.5	mg/L		29-AUG-05	AHY	R318787
Potassium (K)	2.2		0.5	mg/L		29-AUG-05	AHY	R318787
Magnesium (Mg)	14.5		0.1	mg/L		29-AUG-05	AHY	R318787
Sodium (Na)	39		1	mg/L		29-AUG-05	AHY	R318787
Sulfate (SO4)	52.1		0.5	mg/L		29-AUG-05	AHY	R318787
L309982-3 SW-02 ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER								
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.011		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	<0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	0.04		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	0.0031		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	0.03		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.0476		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Cobalt (Co)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-3	SW-02 ROBERTS BAY								
Sampled By:	NOT PROVIDED on 20-AUG-05								
Matrix:	WATER								
Total Metals									
Total Trace Metals (Low Level)									
Chromium (Cr)		<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)		0.005		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)		0.0016		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)		<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)		0.0006		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)		0.0032		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)		<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)		<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)		0.129		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)		<0.005		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)		<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)		0.0007		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)		<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)		0.011		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals									
Calcium (Ca)		78.4		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)		1.8		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)		14.2		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)		12		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)		0.060		0.005	mg/L		29-AUG-05	HAS	R318878
Manganese (Mn)		0.003		0.001	mg/L		29-AUG-05	HAS	R318878
Dissolved Trace Metals (Low Level)									
Silver (Ag)		0.0003		0.0002	mg/L		26-AUG-05	CLL	R318107
Aluminum (Al)		<0.01		0.01	mg/L		26-AUG-05	CLL	R318107
Arsenic (As)		0.0032		0.0004	mg/L		26-AUG-05	CLL	R318107
Boron (B)		0.027		0.002	mg/L		26-AUG-05	CLL	R318107
Barium (Ba)		0.0389		0.0001	mg/L		26-AUG-05	CLL	R318107
Beryllium (Be)		<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
Bismuth (Bi)		<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Cadmium (Cd)		<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Cobalt (Co)		<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Chromium (Cr)		<0.0004		0.0004	mg/L		12-OCT-05	HLA	R335077
Copper (Cu)		0.0041		0.0006	mg/L		26-AUG-05	CLL	R318107
Molybdenum (Mo)		0.0016		0.0001	mg/L		26-AUG-05	CLL	R318107
Nickel (Ni)		0.0003	RRV	0.0001	mg/L		26-AUG-05	CLL	R318107
Lead (Pb)		<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Antimony (Sb)		0.0032		0.0004	mg/L		26-AUG-05	CLL	R318107
Selenium (Se)		0.0006		0.0004	mg/L		26-AUG-05	CLL	R318107
Tin (Sn)		<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Strontium (Sr)		0.124		0.0001	mg/L		26-AUG-05	CLL	R318107
Titanium (Ti)		0.0006		0.0003	mg/L		26-AUG-05	CLL	R318107
Thallium (Tl)		<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Uranium (U)		0.0006		0.0001	mg/L		26-AUG-05	CLL	R318107
Vanadium (V)		0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Zinc (Zn)		0.009		0.002	mg/L		26-AUG-05	CLL	R318107
L309982-4	SW-03 ROBERTS BAY								
Sampled By:	NOT PROVIDED on 20-AUG-05								
Matrix:	WATER								
BTEX, F1 (C6-C10) and F2 (>C10-C16)									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-4 SW-03 ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: WATER								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10)								
Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.075		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	0.0005		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	0.05		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	<0.02		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.0100		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Cobalt (Co)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Chromium (Cr)	<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)	0.004		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)	0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)	0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)	0.0005		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)	0.0572		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)	<0.005		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)	0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)	0.005		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals								
Calcium (Ca)	30.5		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)	1.0		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)	7.9		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)	14		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)	0.099		0.005	mg/L		29-AUG-05	HAS	R318878
Manganese (Mn)	0.005		0.001	mg/L		29-AUG-05	HAS	R318878
Total Organic Carbon	10		1	mg/L		29-AUG-05	ZOW	R318721
PCBs								
Aroclor 1016	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1221	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1232	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1242	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-4	SW-03 ROBERTS BAY								
Sampled By:	NOT PROVIDED on 20-AUG-05								
Matrix:	WATER								
PCBs									
	Aroclor 1248	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1254	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1260	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1262	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Aroclor 1268	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
	Total PCBs	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Surr:	Decachlorobiphenyl	77		65-119	%	29-AUG-05	30-AUG-05	HCB	R319444
OC Screen GC/ECD									
	p,p'-DDD	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	p,p'-DDE	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	p,p'-DDT	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Aldrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	alpha-BHC	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	beta-BHC	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	gamma-BHC (Lindane)	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Quintozine (PCNB)	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	cis-Chlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	trans-Chlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Dieldrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Endosulfan I	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Endosulfan II	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Endrin	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Heptachlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Methoxychlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Mirex	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Nonachlor	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
	Oxychlordane	<0.0003		0.0003	mg/L		06-SEP-05	TN	R322289
Dissolved Trace Metals (Low Level)									
	Silver (Ag)	0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
	Aluminum (Al)	0.01		0.01	mg/L		26-AUG-05	CLL	R318107
	Arsenic (As)	<0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
	Boron (B)	0.010		0.002	mg/L		26-AUG-05	CLL	R318107
	Barium (Ba)	0.0061		0.0001	mg/L		26-AUG-05	CLL	R318107
	Beryllium (Be)	<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
	Bismuth (Bi)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Cadmium (Cd)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Cobalt (Co)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Chromium (Cr)	<0.0004		0.0004	mg/L		12-OCT-05	HLA	R335077
	Copper (Cu)	0.0030		0.0006	mg/L		26-AUG-05	CLL	R318107
	Molybdenum (Mo)	0.0004		0.0001	mg/L		26-AUG-05	CLL	R318107
	Nickel (Ni)	0.0002		0.0001	mg/L		26-AUG-05	CLL	R318107
	Lead (Pb)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Antimony (Sb)	0.0005		0.0004	mg/L		26-AUG-05	CLL	R318107
	Selenium (Se)	<0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
	Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
	Strontium (Sr)	0.0493		0.0001	mg/L		26-AUG-05	CLL	R318107
	Titanium (Ti)	0.0008		0.0003	mg/L		26-AUG-05	CLL	R318107
	Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Uranium (U)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Vanadium (V)	0.0004		0.0001	mg/L		26-AUG-05	CLL	R318107

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-4 SW-03 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: WATER									
Dissolved Trace Metals (Low Level)									
Zinc (Zn)		0.006		0.002	mg/L		26-AUG-05	CLL	R318107
Major Ions & Total Metals									
Chloride (Cl)		36		1	mg/L		29-AUG-05	JTV	R318891
Nitrate+Nitrite-N		<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrate-N		<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrite-N		<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity									
pH		7.9		0.1	pH		26-AUG-05	PTT	R318273
Conductivity (EC)		279		0.2	uS/cm		26-AUG-05	PTT	R318273
Bicarbonate (HCO3)		86		5	mg/L		26-AUG-05	PTT	R318273
Carbonate (CO3)		<5		5	mg/L		26-AUG-05	PTT	R318273
Hydroxide (OH)		<5		5	mg/L		26-AUG-05	PTT	R318273
Alkalinity, Total (as CaCO3)		70		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation									
Ion Balance		101			%		30-AUG-05		
TDS (Calculated)		149			mg/L		30-AUG-05		
Hardness (as CaCO3)		111			mg/L		30-AUG-05		
ICP metals and SO4 for routine water									
Calcium (Ca)		30.8		0.5	mg/L		29-AUG-05	AHY	R318787
Potassium (K)		1.2		0.5	mg/L		29-AUG-05	AHY	R318787
Magnesium (Mg)		8.3		0.1	mg/L		29-AUG-05	AHY	R318787
Sodium (Na)		13		1	mg/L		29-AUG-05	AHY	R318787
Sulfate (SO4)		17.8		0.5	mg/L		29-AUG-05	AHY	R318787
L309982-5 DW LAKE ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: WATER									
Total Organic Carbon		13		1	mg/L		29-AUG-05	ZOW	R318721
Routine Water Analysis									
Chloride (Cl)		28		1	mg/L		29-AUG-05	JTV	R318891
Nitrate+Nitrite-N		<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrate-N		<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrite-N		<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity									
pH		7.5		0.1	pH		26-AUG-05	PTT	R318273
Conductivity (EC)		173		0.2	uS/cm		26-AUG-05	PTT	R318273
Bicarbonate (HCO3)		56		5	mg/L		26-AUG-05	PTT	R318273
Carbonate (CO3)		<5		5	mg/L		26-AUG-05	PTT	R318273
Hydroxide (OH)		<5		5	mg/L		26-AUG-05	PTT	R318273
Alkalinity, Total (as CaCO3)		46		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation									
Ion Balance		97.6			%		30-AUG-05		
TDS (Calculated)		90			mg/L		30-AUG-05		
Hardness (as CaCO3)		58			mg/L		30-AUG-05		
ICP metals and SO4 for routine water									
Calcium (Ca)		14.3		0.5	mg/L		29-AUG-05	AHY	R318787
Potassium (K)		2.0		0.5	mg/L		29-AUG-05	AHY	R318787
Magnesium (Mg)		5.5		0.1	mg/L		29-AUG-05	AHY	R318787
Sodium (Na)		11		1	mg/L		29-AUG-05	AHY	R318787

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-5 DW LAKE ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER Routine Water Analysis ICP metals and SO4 for routine water Sulfate (SO4)	1.4		0.5	mg/L		29-AUG-05	AHY	R318787
L309982-6 N BLADDER ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER BTEX, F1 (C6-C10) and F2 (>C10-C16) F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10) Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals Dissolved Major Metals Iron (Fe)	1.72		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.048		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals Total Metals Total Trace Metals (Low Level) Silver (Ag)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	<0.02		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	0.0053		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	<0.02		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.145		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Cobalt (Co)	0.0006		0.0002	mg/L		29-AUG-05	CLL	R319278
Chromium (Cr)	<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)	0.002		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)	0.0005		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)	0.0004		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)	0.0016		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)	0.0164		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)	1.04		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)	<0.005		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)	0.0005		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)	0.006		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals Calcium (Ca)	197		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)	5.1		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)	91.4		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)	558		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)	3.21		0.005	mg/L		29-AUG-05	HAS	R318878
Manganese (Mn)	0.200		0.001	mg/L		29-AUG-05	HAS	R318878

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-6 N BLADDER ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER Total Metals								
Dissolved Trace Metals (Low Level)								
Silver (Ag)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Aluminum (Al)	<0.01		0.01	mg/L		26-AUG-05	CLL	R318107
Arsenic (As)	0.0041		0.0004	mg/L		26-AUG-05	CLL	R318107
Boron (B)	0.015		0.002	mg/L		26-AUG-05	CLL	R318107
Barium (Ba)	0.118		0.0001	mg/L		26-AUG-05	CLL	R318107
Beryllium (Be)	<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
Bismuth (Bi)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Cadmium (Cd)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Cobalt (Co)	0.0002		0.0001	mg/L		26-AUG-05	CLL	R318107
Chromium (Cr)	0.0004		0.0004	mg/L		12-OCT-05	HLA	R335077
Copper (Cu)	0.0010		0.0006	mg/L		26-AUG-05	CLL	R318107
Molybdenum (Mo)	0.0005		0.0001	mg/L		26-AUG-05	CLL	R318107
Nickel (Ni)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Lead (Pb)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Antimony (Sb)	0.0013		0.0004	mg/L		26-AUG-05	CLL	R318107
Selenium (Se)	0.0172		0.0004	mg/L		26-AUG-05	CLL	R318107
Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Strontium (Sr)	1.03		0.0001	mg/L		26-AUG-05	CLL	R318107
Titanium (Ti)	0.0019		0.0003	mg/L		26-AUG-05	CLL	R318107
Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Uranium (U)	0.0005		0.0001	mg/L		26-AUG-05	CLL	R318107
Vanadium (V)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Zinc (Zn)	0.003		0.002	mg/L		26-AUG-05	CLL	R318107
L309982-7 ROBERTS LAKE ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10)								
Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.039		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Aluminum (Al)	0.08		0.02	mg/L		29-AUG-05	CLL	R319278
Arsenic (As)	0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Boron (B)	0.02		0.02	mg/L		29-AUG-05	CLL	R319278
Barium (Ba)	0.0044		0.0002	mg/L		29-AUG-05	CLL	R319278
Beryllium (Be)	<0.001		0.001	mg/L		29-AUG-05	CLL	R319278
Bismuth (Bi)	<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Cadmium (Cd)	<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-7 ROBERTS LAKE ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: WATER									
Total Metals									
Total Trace Metals (Low Level)									
Cobalt (Co)		<0.0002		0.0002	mg/L		29-AUG-05	CLL	R319278
Chromium (Cr)		<0.0008		0.0008	mg/L		29-AUG-05	CLL	R319278
Copper (Cu)		0.010		0.001	mg/L		29-AUG-05	CLL	R319278
Molybdenum (Mo)		0.0002		0.0001	mg/L		29-AUG-05	CLL	R319278
Nickel (Ni)		0.0007		0.0002	mg/L		29-AUG-05	CLL	R319278
Lead (Pb)		0.0004		0.0001	mg/L		29-AUG-05	CLL	R319278
Antimony (Sb)		0.0008		0.0004	mg/L		29-AUG-05	CLL	R319278
Selenium (Se)		0.0008		0.0004	mg/L		29-AUG-05	CLL	R319278
Tin (Sn)		<0.0004		0.0004	mg/L		29-AUG-05	CLL	R319278
Strontium (Sr)		0.0373		0.0002	mg/L		29-AUG-05	CLL	R319278
Titanium (Ti)		<0.005		0.005	mg/L		29-AUG-05	CLL	R319278
Thallium (Tl)		<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Uranium (U)		<0.0001		0.0001	mg/L		29-AUG-05	CLL	R319278
Vanadium (V)		0.0004		0.0002	mg/L		29-AUG-05	CLL	R319278
Zinc (Zn)		0.006		0.004	mg/L		29-AUG-05	CLL	R319278
Total Major Metals									
Calcium (Ca)		5.4		0.5	mg/L		29-AUG-05	HAS	R318878
Potassium (K)		1.8		0.1	mg/L		29-AUG-05	HAS	R318878
Magnesium (Mg)		5.4		0.1	mg/L		29-AUG-05	HAS	R318878
Sodium (Na)		27		1	mg/L		29-AUG-05	HAS	R318878
Iron (Fe)		0.089		0.005	mg/L		29-AUG-05	HAS	R318878
Manganese (Mn)		0.006		0.001	mg/L		29-AUG-05	HAS	R318878
Total Organic Carbon		4		1	mg/L		29-AUG-05	ZOW	R318721
PCBs									
Aroclor 1016		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1221		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1232		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1242		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1248		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1254		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1260		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1262		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1268		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Total PCBs		<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Surr: Decachlorobiphenyl		77		65-119	%	29-AUG-05	30-AUG-05	HCB	R319444
Dissolved Trace Metals (Low Level)									
Silver (Ag)		<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Aluminum (Al)		<0.01		0.01	mg/L		26-AUG-05	CLL	R318107
Arsenic (As)		<0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
Boron (B)		0.022		0.002	mg/L		26-AUG-05	CLL	R318107
Barium (Ba)		0.0025		0.0001	mg/L		26-AUG-05	CLL	R318107
Beryllium (Be)		<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
Bismuth (Bi)		<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Cadmium (Cd)		<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Cobalt (Co)		<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Chromium (Cr)		<0.0004		0.0004	mg/L		12-OCT-05	HLA	R335077
Copper (Cu)		0.0035		0.0006	mg/L		26-AUG-05	CLL	R318107
Molybdenum (Mo)		0.0003		0.0001	mg/L		26-AUG-05	CLL	R318107
Nickel (Ni)		0.0007		0.0001	mg/L		26-AUG-05	CLL	R318107

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-7 ROBERTS LAKE ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: WATER								
Dissolved Trace Metals (Low Level)								
Lead (Pb)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Antimony (Sb)	0.0005		0.0004	mg/L		26-AUG-05	CLL	R318107
Selenium (Se)	<0.0004		0.0004	mg/L		14-OCT-05	SYF	R334968
Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
Strontium (Sr)	0.0377		0.0001	mg/L		26-AUG-05	CLL	R318107
Titanium (Ti)	0.0003		0.0003	mg/L		26-AUG-05	CLL	R318107
Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
Uranium (U)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
Vanadium (V)	0.0005		0.0001	mg/L		26-AUG-05	CLL	R318107
Zinc (Zn)	0.005		0.002	mg/L		26-AUG-05	CLL	R318107
Major Ions & Total Metals								
Chloride (Cl)	61		1	mg/L		29-AUG-05	JTV	R318891
Nitrate+Nitrite-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrate-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
Nitrite-N	<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity								
pH	6.9		0.1	pH		26-AUG-05	PTT	R318273
Conductivity (EC)	244		0.2	uS/cm		26-AUG-05	PTT	R318273
Bicarbonate (HCO ₃)	29		5	mg/L		26-AUG-05	PTT	R318273
Carbonate (CO ₃)	<5		5	mg/L		26-AUG-05	PTT	R318273
Hydroxide (OH)	<5		5	mg/L		26-AUG-05	PTT	R318273
Alkalinity, Total (as CaCO ₃)	24		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation								
Ion Balance	91.4			%		30-AUG-05		
TDS (Calculated)	123			mg/L		30-AUG-05		
Hardness (as CaCO ₃)	39			mg/L		30-AUG-05		
ICP metals and SO₄ for routine water								
Calcium (Ca)	5.7		0.5	mg/L		29-AUG-05	AHY	R318787
Potassium (K)	2.2		0.5	mg/L		29-AUG-05	AHY	R318787
Magnesium (Mg)	6.0		0.1	mg/L		29-AUG-05	AHY	R318787
Sodium (Na)	29		1	mg/L		29-AUG-05	AHY	R318787
Sulfate (SO ₄)	4.7		0.5	mg/L		29-AUG-05	AHY	R318787
L309982-8 ROBERTS LAKE BACKGROUND ROBERTS BAY Sampled By: NOT PROVIDED Matrix: WATER								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
F2 (>C10-C16)	<0.05		0.05	mg/L	29-AUG-05	29-AUG-05	AAT	R319104
BTEX and F1 (C6-C10)								
Benzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Toluene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
EthylBenzene	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	0.063		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-8 ROBERTS LAKE BACKGROUND ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: WATER									
Total Metals									
Total Trace Metals (Low Level)									
Silver (Ag)	<0.0004	0.0004	mg/L	29-AUG-05	CLL	R319278			
Aluminum (Al)	0.50	0.02	mg/L	29-AUG-05	CLL	R319278			
Arsenic (As)	0.0006	0.0004	mg/L	29-AUG-05	CLL	R319278			
Boron (B)	0.03	0.02	mg/L	29-AUG-05	CLL	R319278			
Barium (Ba)	0.0095	0.0002	mg/L	29-AUG-05	CLL	R319278			
Beryllium (Be)	<0.001	0.001	mg/L	29-AUG-05	CLL	R319278			
Bismuth (Bi)	<0.0001	0.0001	mg/L	29-AUG-05	CLL	R319278			
Cadmium (Cd)	<0.0002	0.0002	mg/L	29-AUG-05	CLL	R319278			
Cobalt (Co)	<0.0002	0.0002	mg/L	29-AUG-05	CLL	R319278			
Chromium (Cr)	<0.0008	0.0008	mg/L	29-AUG-05	CLL	R319278			
Copper (Cu)	0.003	0.001	mg/L	29-AUG-05	CLL	R319278			
Molybdenum (Mo)	0.0002	0.0001	mg/L	29-AUG-05	CLL	R319278			
Nickel (Ni)	0.0009	0.0002	mg/L	29-AUG-05	CLL	R319278			
Lead (Pb)	0.0001	0.0001	mg/L	29-AUG-05	CLL	R319278			
Antimony (Sb)	0.0005	0.0004	mg/L	29-AUG-05	CLL	R319278			
Selenium (Se)	0.0011	0.0004	mg/L	29-AUG-05	CLL	R319278			
Tin (Sn)	<0.0004	0.0004	mg/L	29-AUG-05	CLL	R319278			
Strontium (Sr)	0.0511	0.0002	mg/L	29-AUG-05	CLL	R319278			
Titanium (Ti)	0.010	0.005	mg/L	29-AUG-05	CLL	R319278			
Thallium (Tl)	<0.0001	0.0001	mg/L	29-AUG-05	CLL	R319278			
Uranium (U)	<0.0001	0.0001	mg/L	29-AUG-05	CLL	R319278			
Vanadium (V)	0.0008	0.0002	mg/L	29-AUG-05	CLL	R319278			
Zinc (Zn)	<0.004	0.004	mg/L	29-AUG-05	CLL	R319278			
Total Major Metals									
Calcium (Ca)	5.9	0.5	mg/L	29-AUG-05	HAS	R318878			
Potassium (K)	2.1	0.1	mg/L	29-AUG-05	HAS	R318878			
Magnesium (Mg)	7.9	0.1	mg/L	29-AUG-05	HAS	R318878			
Sodium (Na)	39	1	mg/L	29-AUG-05	HAS	R318878			
Iron (Fe)	0.308	0.005	mg/L	29-AUG-05	HAS	R318878			
Manganese (Mn)	0.010	0.001	mg/L	29-AUG-05	HAS	R318878			
Total Organic Carbon	6	1	mg/L	29-AUG-05	ZOW	R318721			
PCBs									
Aroclor 1016	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1221	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1232	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1242	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1248	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1254	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1260	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1262	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Aroclor 1268	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Total PCBs	<0.00005	0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444		
Surr: Decachlorobiphenyl	75	65-119	%	29-AUG-05	30-AUG-05	HCB	R319444		
Dissolved Trace Metals (Low Level)									
Silver (Ag)	<0.0002	0.0002	mg/L	26-AUG-05	CLL	R318107			
Aluminum (Al)	0.07	0.01	mg/L	26-AUG-05	CLL	R318107			
Arsenic (As)	<0.0004	0.0004	mg/L	26-AUG-05	CLL	R318107			
Boron (B)	0.025	0.002	mg/L	26-AUG-05	CLL	R318107			
Barium (Ba)	0.0034	0.0001	mg/L	26-AUG-05	CLL	R318107			

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-8 ROBERTS LAKE BACKGROUND ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: WATER									
Dissolved Trace Metals (Low Level)									
Beryllium (Be)	<0.0005	0.0005	mg/L	26-AUG-05	CLL	R318107			
Bismuth (Bi)	<0.00005	0.00005	mg/L	26-AUG-05	CLL	R318107			
Cadmium (Cd)	<0.0001	0.0001	mg/L	26-AUG-05	CLL	R318107			
Cobalt (Co)	<0.0001	0.0001	mg/L	26-AUG-05	CLL	R318107			
Chromium (Cr)	<0.0004	0.0004	mg/L	12-OCT-05	HLA	R335077			
Copper (Cu)	0.0016	0.0006	mg/L	26-AUG-05	CLL	R318107			
Molybdenum (Mo)	0.0003	0.0001	mg/L	26-AUG-05	CLL	R318107			
Nickel (Ni)	0.0004	0.0001	mg/L	26-AUG-05	CLL	R318107			
Lead (Pb)	<0.0001	0.0001	mg/L	26-AUG-05	CLL	R318107			
Antimony (Sb)	0.0005	0.0004	mg/L	26-AUG-05	CLL	R318107			
Selenium (Se)	<0.0004	0.0004	mg/L	14-OCT-05	SYF	R334968			
Tin (Sn)	<0.0002	0.0002	mg/L	26-AUG-05	CLL	R318107			
Strontium (Sr)	0.0504	0.0001	mg/L	26-AUG-05	CLL	R318107			
Titanium (Ti)	0.0005	0.0003	mg/L	26-AUG-05	CLL	R318107			
Thallium (Tl)	<0.00005	0.00005	mg/L	26-AUG-05	CLL	R318107			
Uranium (U)	<0.0001	0.0001	mg/L	26-AUG-05	CLL	R318107			
Vanadium (V)	0.0005	0.0001	mg/L	26-AUG-05	CLL	R318107			
Zinc (Zn)	0.002	0.002	mg/L	26-AUG-05	CLL	R318107			
Major Ions & Total Metals									
Chloride (Cl)	90	1	mg/L	29-AUG-05	JTV	R318891			
Nitrate+Nitrite-N	<0.1	0.1	mg/L	26-AUG-05	TL	R317948			
Nitrate-N	<0.1	0.1	mg/L	26-AUG-05	TL	R317948			
Nitrite-N	<0.05	0.05	mg/L	26-AUG-05	TL	R317948			
pH, Conductivity and Total Alkalinity									
pH	6.9	0.1	pH	26-AUG-05	PTT	R318273			
Conductivity (EC)	353	0.2	uS/cm	26-AUG-05	PTT	R318273			
Bicarbonate (HCO3)	26	5	mg/L	26-AUG-05	PTT	R318273			
Carbonate (CO3)	<5	5	mg/L	26-AUG-05	PTT	R318273			
Hydroxide (OH)	<5	5	mg/L	26-AUG-05	PTT	R318273			
Alkalinity, Total (as CaCO3)	21	5	mg/L	26-AUG-05	PTT	R318273			
Ion Balance Calculation									
Ion Balance	96.4		%	30-AUG-05					
TDS (Calculated)	172		mg/L	30-AUG-05					
Hardness (as CaCO3)	52		mg/L	30-AUG-05					
ICP metals and SO4 for routine water									
Calcium (Ca)	6.3	0.5	mg/L	29-AUG-05	AHY	R318787			
Potassium (K)	2.3	0.5	mg/L	29-AUG-05	AHY	R318787			
Magnesium (Mg)	8.8	0.1	mg/L	29-AUG-05	AHY	R318787			
Sodium (Na)	44	1	mg/L	29-AUG-05	AHY	R318787			
Sulfate (SO4)	7.7	0.5	mg/L	29-AUG-05	AHY	R318787			
L309982-9 TRIP BLANK ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: WATER									
BTEX, F1 (C6-C10) and F2 (>C10-C16)									
F2 (>C10-C16)	<0.05	0.05	mg/L	29-AUG-05	AAT	R319104	29-AUG-05		
BTEX and F1 (C6-C10)									
Benzene	<0.0005	0.0005	mg/L	29-AUG-05	EMP	R319106	29-AUG-05		
Toluene	<0.0005	0.0005	mg/L	29-AUG-05	EMP	R319106	29-AUG-05		
EthylBenzene	<0.0005	0.0005	mg/L	29-AUG-05	EMP	R319106	29-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-9 TRIP BLANK ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: WATER								
BTEX, F1 (C6-C10) and F2 (>C10-C16)								
BTEX and F1 (C6-C10)								
Xylenes	<0.0005		0.0005	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1(C6-C10)	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
F1-BTEX	<0.1		0.1	mg/L	29-AUG-05	29-AUG-05	EMP	R319106
Dissolved Metals								
Dissolved Major Metals								
Iron (Fe)	<0.005		0.005	mg/L		29-AUG-05	HAS	R318877
Manganese (Mn)	<0.001		0.001	mg/L		29-AUG-05	HAS	R318877
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		30-AUG-05	CLL	R319720
Aluminum (Al)	<0.02		0.02	mg/L		30-AUG-05	CLL	R319720
Arsenic (As)	<0.0004		0.0004	mg/L		30-AUG-05	CLL	R319720
Boron (B)	<0.02		0.02	mg/L		30-AUG-05	CLL	R319720
Barium (Ba)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Beryllium (Be)	<0.001		0.001	mg/L		30-AUG-05	CLL	R319720
Bismuth (Bi)	<0.0001		0.0001	mg/L		30-AUG-05	CLL	R319720
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Cobalt (Co)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Chromium (Cr)	<0.0008		0.0008	mg/L		30-AUG-05	CLL	R319720
Copper (Cu)	<0.001		0.001	mg/L		30-AUG-05	CLL	R319720
Molybdenum (Mo)	<0.0001		0.0001	mg/L		30-AUG-05	CLL	R319720
Nickel (Ni)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Lead (Pb)	<0.0001		0.0001	mg/L		30-AUG-05	CLL	R319720
Antimony (Sb)	0.0006		0.0004	mg/L		30-AUG-05	CLL	R319720
Selenium (Se)	<0.0004		0.0004	mg/L		30-AUG-05	CLL	R319720
Tin (Sn)	<0.0004		0.0004	mg/L		30-AUG-05	CLL	R319720
Strontium (Sr)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Titanium (Ti)	<0.005		0.005	mg/L		30-AUG-05	CLL	R319720
Thallium (Tl)	<0.0001		0.0001	mg/L		30-AUG-05	CLL	R319720
Uranium (U)	<0.0001		0.0001	mg/L		30-AUG-05	CLL	R319720
Vanadium (V)	<0.0002		0.0002	mg/L		30-AUG-05	CLL	R319720
Zinc (Zn)	<0.004		0.004	mg/L		30-AUG-05	CLL	R319720
Total Major Metals								
Calcium (Ca)	<0.5		0.5	mg/L		31-AUG-05	HAS	R319811
Potassium (K)	<0.1		0.1	mg/L		31-AUG-05	HAS	R319811
Magnesium (Mg)	<0.1		0.1	mg/L		31-AUG-05	HAS	R319811
Sodium (Na)	<1		1	mg/L		31-AUG-05	HAS	R319811
Iron (Fe)	<0.005		0.005	mg/L		31-AUG-05	HAS	R319811
Manganese (Mn)	<0.001		0.001	mg/L		31-AUG-05	HAS	R319811
PCBs								
Aroclor 1016	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1221	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1232	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1242	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1248	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1254	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1260	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1262	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Aroclor 1268	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-9	TRIP BLANK ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	WATER								
PCBs									
	Total PCBs	<0.00005		0.00005	mg/L	29-AUG-05	30-AUG-05	HCB	R319444
Surr:	Decachlorobiphenyl	75		65-119	%	29-AUG-05	30-AUG-05	HCB	R319444
Dissolved Trace Metals (Low Level)									
	Silver (Ag)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
	Aluminum (Al)	<0.01		0.01	mg/L		26-AUG-05	CLL	R318107
	Arsenic (As)	<0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
	Boron (B)	<0.002		0.002	mg/L		26-AUG-05	CLL	R318107
	Barium (Ba)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Beryllium (Be)	<0.0005		0.0005	mg/L		26-AUG-05	CLL	R318107
	Bismuth (Bi)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Cadmium (Cd)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Cobalt (Co)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Chromium (Cr)	0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
	Copper (Cu)	<0.0006		0.0006	mg/L		26-AUG-05	CLL	R318107
	Molybdenum (Mo)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Nickel (Ni)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Lead (Pb)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Antimony (Sb)	0.0006		0.0004	mg/L		26-AUG-05	CLL	R318107
	Selenium (Se)	<0.0004		0.0004	mg/L		26-AUG-05	CLL	R318107
	Tin (Sn)	<0.0002		0.0002	mg/L		26-AUG-05	CLL	R318107
	Strontium (Sr)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Titanium (Ti)	<0.0003		0.0003	mg/L		26-AUG-05	CLL	R318107
	Thallium (Tl)	<0.00005		0.00005	mg/L		26-AUG-05	CLL	R318107
	Uranium (U)	<0.0001		0.0001	mg/L		26-AUG-05	CLL	R318107
	Vanadium (V)	0.0003		0.0001	mg/L		26-AUG-05	CLL	R318107
	Zinc (Zn)	<0.002		0.002	mg/L		26-AUG-05	CLL	R318107
Major Ions & Total Metals									
	Chloride (Cl)	1		1	mg/L		29-AUG-05	JTV	R318891
	Nitrate+Nitrite-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
	Nitrate-N	<0.1		0.1	mg/L		26-AUG-05	TL	R317948
	Nitrite-N	<0.05		0.05	mg/L		26-AUG-05	TL	R317948
pH, Conductivity and Total Alkalinity									
	pH	6.1		0.1	pH		26-AUG-05	PTT	R318273
	Conductivity (EC)	0.9		0.2	uS/cm		26-AUG-05	PTT	R318273
	Bicarbonate (HCO3)	<5		5	mg/L		26-AUG-05	PTT	R318273
	Carbonate (CO3)	<5		5	mg/L		26-AUG-05	PTT	R318273
	Hydroxide (OH)	<5		5	mg/L		26-AUG-05	PTT	R318273
	Alkalinity, Total (as CaCO3)	<5		5	mg/L		26-AUG-05	PTT	R318273
Ion Balance Calculation									
	Ion Balance	Low EC			%		30-AUG-05		
	TDS (Calculated)	1			mg/L		30-AUG-05		
	Hardness (as CaCO3)	<1			mg/L		30-AUG-05		
ICP metals and SO4 for routine water									
	Calcium (Ca)	<0.5		0.5	mg/L		29-AUG-05	AHY	R318787
	Potassium (K)	<0.5		0.5	mg/L		29-AUG-05	AHY	R318787
	Magnesium (Mg)	<0.1		0.1	mg/L		29-AUG-05	AHY	R318787
	Sodium (Na)	<1		1	mg/L		29-AUG-05	AHY	R318787
	Sulfate (SO4)	<0.5		0.5	mg/L		29-AUG-05	AHY	R318787

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-10 ROB LK 01 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	30	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)	12	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	42		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	91		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.03		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	43		0.1	%		26-AUG-05	VN	R318233
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	85		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	2.6		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	108		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	11		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	63.2		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	20		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	32		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	8		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	61		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	80		10	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-11 ROB LK 02 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	24	IPC	5	mg/kg		31-AUG-05		
F3-PAH	24		5	mg/kg		31-AUG-05		
F4 (C34-C50)	6	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	30		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	105		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.02		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	22		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	91		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	62		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	8		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	29.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	14		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	17		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	35		1	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-11 ROB LK 02 SEDIMENTS									
Sampled By: EARTH TECH									
Matrix: SEDIMENT									
Metals in Soil - CCME List									
Zinc (Zn)		40		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	90		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	92		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	97		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-12 ROB LK 03 SEDIMENTS									
Sampled By: EARTH TECH									
Matrix: SEDIMENT									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)		29	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)		11	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		40		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	96		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene		0.02		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture		21		0.1	%		27-AUG-05	VN	R318405
PCBs									
Aroclor 1016		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs		<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	89		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-12 ROB LK 03 SEDIMENTS Sampled By: EARTH TECH Matrix: SEDIMENT								
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	2.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	82		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	10		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	40.3		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	22		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	22		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	7		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	48		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	60		10	mg/kg		29-AUG-05	QLI	R318881
L309982-13 ROB LK 04 SEDIMENTS Sampled By: EARTH TECH Matrix: SEDIMENT								
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	9.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	111		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	12		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	57.9		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	30		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	3		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	31		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	25		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	66		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	80		10	mg/kg		29-AUG-05	QLI	R318881
L309982-14 ROB LAKE MED SEDIMENTS Sampled By: EARTH TECH Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-14 ROB LAKE MED SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	9	IPC	5	mg/kg		31-AUG-05		
F3-PAH	9		5	mg/kg		31-AUG-05		
F4 (C34-C50)	<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	9		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	101		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.02		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	38		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	85		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	5.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	141		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	14		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	70.4		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	25		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	35		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	12		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	70		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	90		10	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-14	ROB LAKE MED SEDIMENTS								
Sampled By:	EARTH TECH								
Matrix:	SEDIMENT								
CCME PAHs									
	Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Phenanthrene	<0.01	RAMB	0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	76		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	94		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	97		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-15	ROB LK BKND SEDIMENTS								
Sampled By:	EARTH TECH								
Matrix:	SEDIMENT								
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
	F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
	F1-BTEX	<5		5	mg/kg		31-AUG-05		
	F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
	F2-Naphth	<5		5	mg/kg		31-AUG-05		
	F3 (C16-C34)	37	IPC	5	mg/kg		31-AUG-05		
	F3-PAH	37		5	mg/kg		31-AUG-05		
	F4 (C34-C50)	17	IPC	5	mg/kg		31-AUG-05		
	Total Hydrocarbons (C6-C50)	54		5	mg/kg		31-AUG-05		
	Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	106		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
	Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
	Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
	Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
	Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
	Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
	% Moisture	29		0.1	%		27-AUG-05	VN	R318405
PCBs									
	Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	90		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-15 ROB LK BKND SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	8.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	106		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	12		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	59.2		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	30		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	4		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	31		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	21		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	65		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	80		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	89		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	90		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	97		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-16 IDA 01 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	<5	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)	<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	<5		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	98		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-16 IDA 01 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME BTEX								
Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	22		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	6.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	108		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	13		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	47.9		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	39		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	31		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	49		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	59		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	80		10	mg/kg		29-AUG-05	QLI	R318881
L309982-17 IDA 02 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	6	IPC	5	mg/kg		31-AUG-05		
F3-PAH	6		5	mg/kg		31-AUG-05		
F4 (C34-C50)	<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	6		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	99		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	28-AUG-05	CTL	R318864
Toluene	<0.01		0.01	mg/kg	27-AUG-05	28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	28-AUG-05	CTL	R318864
% Moisture	19		0.1	%		27-AUG-05	VN	R318405
PCBs								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-17 IDA 02 SEDIMENTS									
Sampled By: EARTH TECH									
Matrix: SEDIMENT									
PCBs									
	Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	88		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									
	Silver (Ag)	1		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	2.0		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	95		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	10		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	33.7		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	26		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	21		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	8		5	mg/kg		29-AUG-05	QLI	R318881
	Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
	Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
	Vanadium (V)	46		1	mg/kg		29-AUG-05	QLI	R318881
	Zinc (Zn)	60		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
	Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Phenanthrene	<0.01	RAMB	0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	82		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	85		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	103		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-18 IDA 03 SEDIMENTS									
Sampled By: EARTH TECH									
Matrix: SEDIMENT									
Metals in Soil - CCME List									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-18 IDA 03 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	85		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	11		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	41.0		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	28		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	24		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	6		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	53		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	70		10	mg/kg		29-AUG-05	QLI	R318881
L309982-19 IDA 04 SEDIMENTS								
Sampled By: EARTH TECH								
Matrix: SEDIMENT								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	18	IPC	5	mg/kg		31-AUG-05		
F3-PAH	18		5	mg/kg		31-AUG-05		
F4 (C34-C50)	11	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	29		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	104		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
% Moisture	20		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-19 IDA 04 SEDIMENTS									
Sampled By: EARTH TECH									
Matrix: SEDIMENT									
PCBs									
	Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	91		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									
	Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	2.0		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	51		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	7		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	30.8		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	21		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	17		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
	Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
	Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
	Vanadium (V)	39		1	mg/kg		29-AUG-05	QLI	R318881
	Zinc (Zn)	40		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
	Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	79		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	90		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	96		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-20 BLUE PAINT ROBERTS BAY									
Sampled By: NOT PROVIDED on 21-AUG-05									
Matrix: PAINT									
	Lead (Pb)-Leachable	<0.5		0.5	mg/L		23-SEP-05	CLL	R327849
PCBs in Paint									
	Aroclor 1016	<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
	Aroclor 1221	<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
	Aroclor 1232	<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
	Aroclor 1242	<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
	Aroclor 1248	<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-20 BLUE PAINT ROBERTS BAY Sampled By: NOT PROVIDED on 21-AUG-05 Matrix: PAINT									
PCBs in Paint									
Aroclor 1254		0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1260		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1262		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1268		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Total PCBs		0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Surr: Decachlorobiphenyl		91		66-124	%	29-AUG-05	30-AUG-05	HCB	R319499
Lead In Paint									
Lead (Pb)		28100		10	mg/kg		30-AUG-05	HZ	R319768
L309982-21 GREEN PAINT ROBERTS BAY Sampled By: NOT PROVIDED on 21-AUG-05 Matrix: PAINT									
Lead (Pb)-Leachable		<0.5		0.5	mg/L		23-SEP-05	CLL	R327849
PCBs in Paint									
Aroclor 1016		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1221		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1232		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1242		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1248		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1254		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1260		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1262		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Aroclor 1268		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Total PCBs		<0.3		0.3	mg/kg	29-AUG-05	30-AUG-05	HCB	R319499
Surr: Decachlorobiphenyl		118		66-124	%	29-AUG-05	30-AUG-05	HCB	R319499
Lead In Paint									
Lead (Pb)		12200		10	mg/kg		30-AUG-05	HZ	R319768
L309982-22 ROBERTS BAY ET-01 ROBERTS BAY Sampled By: NOT PROVIDED on 21-AUG-05 Matrix: OIL									
C1-C60 GC/FID Scan		See attached				30-AUG-05	07-SEP-05	ARM	R321964
Cadmium (Cd)		<0.5		0.5	mg/kg		23-NOV-05	HAS	R349622
Chromium (Cr)		<0.5		0.5	mg/kg		23-NOV-05	HAS	R349622
Lead (Pb)		<5		5	mg/kg		23-NOV-05	HAS	R349622
TOX		140		1	ug/g Cl		01-DEC-05	SRC	R352596
L309982-23 ET-1100 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		<5	IPC	5	mg/kg		31-AUG-05		
F3-PAH		<5		5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-23 ET-1100 ROBERTS BAY								
Sampled By: NOT PROVIDED on 19-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
Total Hydrocarbons (C6-C50)	<5		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	99		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
% Moisture	5.2		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	92		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	0.8		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	13		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	4		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	7.2		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	2		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	5		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	8		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	17		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	20		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-23 ET-1100 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME PAHs								
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	83		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	89		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	97		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-24 ET-1101 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	12	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	12		5	mg/kg		31-AUG-05		
F3 (C16-C34)	2500	IPC	5	mg/kg		31-AUG-05		
F3-PAH	2500		5	mg/kg		31-AUG-05		
F4 (C34-C50)	970	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	3500		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	117		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.02		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	40		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	3.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	200		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	15		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	73.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	63		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	2		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	34		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	11		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-24 ET-1101 ROBERTS BAY									
Sampled By: NOT PROVIDED on 19-AUG-05									
Matrix: SOIL									
Metals in Soil - CCME List									
Vanadium (V)		82		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		100		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	76		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	76		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	119		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-25 ET-1108 ROBERTS BAY									
Sampled By: NOT PROVIDED on 19-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)		45	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)		42	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		87		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	101		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene		0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture		6.9		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		0.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		18		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		5		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		6.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		3		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		6		2	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-25 ET-1108 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
Metals in Soil - CCME List								
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	16		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	20		10	mg/kg		29-AUG-05	QLI	R318881
L309982-26 ET-1109 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	15	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)	11	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	26		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	101		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
 % Moisture	 14		 0.1	 %		 27-AUG-05	 VN	 R318405
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	3.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	118		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	12		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	48.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	21		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	25		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	8		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	51		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	60		10	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-26 ET-1109 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
L309982-27 ET-1111 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	730	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	730		5	mg/kg		31-AUG-05		
F3 (C16-C34)	8500	IPC	5	mg/kg		31-AUG-05		
F3-PAH	8500		5	mg/kg		31-AUG-05		
F4 (C34-C50)	5900	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	15000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	3.2		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	77		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	202		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	43.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	401		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	4.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	84		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	68.4		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	134		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	0.58		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	3		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	108		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	280		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	2.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	1.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-27 ET-1111 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
Metals in Soil - CCME List								
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	94		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	330		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	60		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	75		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	99		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
Note: PAH detection limit raised due to matrix interference.								
L309982-28 ET-1112 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	19000	IPC	5	mg/kg		31-AUG-05		
F3-PAH	19000		5	mg/kg		31-AUG-05		
F4 (C34-C50)	4300	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	23000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
 % Moisture	 2.1		 0.1	 %		 27-AUG-05	 VN	 R318405
Metals in Soil - CCME List								
Silver (Ag)	4		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	11.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	474		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	1.4		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	19		1	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-28 ET-1112 ROBERTS BAY									
Sampled By: NOT PROVIDED on 19-AUG-05									
Matrix: SOIL									
Metals in Soil - CCME List									
Chromium (Cr)	27.3			0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	64			2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	0.09			0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	1			1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	22			2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	26			5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	1.0			0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2			0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5			5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1			1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40			40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	50			1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	180			10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.1			0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	59			41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	72			53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	99			63-135	%	29-AUG-05	31-AUG-05	UM	R318997
Note: PAH detection limit raised due to matrix interference.									
L309982-29 ET-1113 ROBERTS BAY									
Sampled By: NOT PROVIDED on 19-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)	<5			5	mg/kg		31-AUG-05		
F1-BTEX	<5			5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5		IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	36		IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)	23		IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	59			5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO						31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane	107			61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene	<0.005			0.005	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.01			0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	<0.01			0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	<0.01			0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-29 ET-1113 ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
% Moisture	8.4		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	946		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	16.9		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	1010		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	3.4		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	37		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	93.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	203		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	1.06		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	2		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	88		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	170		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	2.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	136		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	190		10	mg/kg		29-AUG-05	QLI	R318881
L309982-30 ET-1151 A ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	360		5	mg/kg		30-AUG-05		
F1-BTEX	360		5	mg/kg		30-AUG-05		
F2 (C10-C16)	7000	IPC	5	mg/kg		30-AUG-05		
F3 (C16-C34)	1400	IPC	5	mg/kg		30-AUG-05		
F4 (C34-C50)	19	IPC	5	mg/kg		30-AUG-05		
Total Hydrocarbons (C6-C50)	8800		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50	NO					30-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	100		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates					29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	0.03		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	1.7		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
% Moisture	13		0.1	%		27-AUG-05	VN	R318405
L309982-31 ET-1152 A ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	200		5	mg/kg		31-AUG-05		
F1-BTEX	200		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-31 ET-1152 A ROBERTS BAY								
Sampled By: NOT PROVIDED on 19-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F2 (C10-C16)	42000	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	42000		5	mg/kg		31-AUG-05		
F3 (C16-C34)	13000	IPC	5	mg/kg		31-AUG-05		
F3-PAH	13000		5	mg/kg		31-AUG-05		
F4 (C34-C50)	430	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	56000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	201	SOL:MI		%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates					29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX								
Benzene	<0.03	DLHM	0.03	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.06	DLHM	0.06	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	<0.06	DLHM	0.06	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	0.14	DLHM	0.06	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
% Moisture	81		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.03		0.03	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.2	DLHM	0.15	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	76		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
CCME PAHs								
Naphthalene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.3		0.3	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	0	SOL:MI	41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	81		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	92		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
Note: PAH detection limit raised due to matrix interference.								
L309982-32 ET-1153 A ROBERTS BAY								
Sampled By: NOT PROVIDED on 19-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-32 ET-1153 A ROBERTS BAY								
Sampled By: NOT PROVIDED on 19-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	740		5	mg/kg		31-AUG-05		
F1-BTEX	740		5	mg/kg		31-AUG-05		
F2 (C10-C16)	20000	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	20000		5	mg/kg		31-AUG-05		
F3 (C16-C34)	8200	IPC	5	mg/kg		31-AUG-05		
F3-PAH	8200		5	mg/kg		31-AUG-05		
F4 (C34-C50)	630	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	30000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					29-AUG-05	30-AUG-05	JNW	R319733
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Toluene	<0.01		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Ethylbenzene	0.07		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
Xylenes	0.27		0.01	mg/kg	28-AUG-05	29-AUG-05	SCM	R319012
% Moisture	30		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	78		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
CCME PAHs								
Naphthalene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	2		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<1		1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	0	SOL:MI	41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	0	SOL:MI	53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	112		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
Note: PAH detection limit raised due to matrix interference.								
L309982-33 ET-1154 A ROBERTS BAY								
Sampled By: NOT PROVIDED on 19-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-33 ET-1154 A ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL CCME BTEX, TVHs and TEHs CCME Total Hydrocarbons F1 (C6-C10) <5 5 mg/kg 30-AUG-05 F1-BTEX <5 5 mg/kg 30-AUG-05 F2 (C10-C16) 49 IPC 5 mg/kg 30-AUG-05 F3 (C16-C34) 360 IPC 5 mg/kg 30-AUG-05 F4 (C34-C50) 130 IPC 5 mg/kg 30-AUG-05 Total Hydrocarbons (C6-C50) 540 5 mg/kg 30-AUG-05 Chromatogram to baseline at nC50 NO 30-AUG-05 CCME Total Extractable Hydrocarbons Surr: Androstane 107 61-151 % 29-AUG-05 29-AUG-05 JNW R319330 Prep/Analysis Dates 29-AUG-05 29-AUG-05 JNW R319330 CCME BTEX Benzene <0.005 0.005 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Toluene <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Ethylbenzene <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Xylenes <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 % Moisture 39 0.1 % 27-AUG-05 VN R318405								
L309982-34 ET-1155 A ROBERTS BAY Sampled By: NOT PROVIDED on 19-AUG-05 Matrix: SOIL CCME BTEX, TVHs and TEHs CCME Total Hydrocarbons F1 (C6-C10) <5 5 mg/kg 30-AUG-05 F1-BTEX <5 5 mg/kg 30-AUG-05 F2 (C10-C16) <5 IPC 5 mg/kg 30-AUG-05 F3 (C16-C34) 33 IPC 5 mg/kg 30-AUG-05 F4 (C34-C50) 27 IPC 5 mg/kg 30-AUG-05 Total Hydrocarbons (C6-C50) 60 5 mg/kg 30-AUG-05 Chromatogram to baseline at nC50 NO 30-AUG-05 CCME Total Extractable Hydrocarbons Surr: Androstane 104 61-151 % 29-AUG-05 29-AUG-05 JNW R319330 Prep/Analysis Dates 29-AUG-05 29-AUG-05 JNW R319330 CCME BTEX Benzene <0.005 0.005 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Toluene <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Ethylbenzene <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 Xylenes <0.01 0.01 mg/kg 28-AUG-05 29-AUG-05 SCM R319012 % Moisture 19 0.1 % 27-AUG-05 VN R318405								
L309982-35 ET-1156 A ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL CCME BTEX, TVHs and TEHs CCME Total Hydrocarbons F1 (C6-C10) <5 5 mg/kg 30-AUG-05 F1-BTEX <5 5 mg/kg 30-AUG-05 F2 (C10-C16) <5 IPC 5 mg/kg 30-AUG-05 F3 (C16-C34) 8 IPC 5 mg/kg 30-AUG-05 F4 (C34-C50) <5 IPC 5 mg/kg 30-AUG-05								

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-35	ET-1156 A ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
Total Hydrocarbons (C6-C50)		8		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50		YES					30-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	105		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates						29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
%									
Moisture		9.2		0.1	%		27-AUG-05	VN	R318405
L309982-36	ET-1152 B ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		97		5	mg/kg		30-AUG-05		
F1-BTEX		97		5	mg/kg		30-AUG-05		
F2 (C10-C16)		3200	IPC	5	mg/kg		30-AUG-05		
F3 (C16-C34)		910	IPC	5	mg/kg		30-AUG-05		
F4 (C34-C50)		13	IPC	5	mg/kg		30-AUG-05		
Total Hydrocarbons (C6-C50)		4200		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50		NO					30-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	116		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates						29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		0.09		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
%									
Moisture		15		0.1	%		27-AUG-05	VN	R318405
L309982-37	ET-1153 B ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		330		5	mg/kg		31-AUG-05		
F1-BTEX		330		5	mg/kg		31-AUG-05		
F2 (C10-C16)		7400	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)		3100	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)		79	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		11000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Prep/Analysis Dates						29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-37 ET-1153 B ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL CCME BTEX, TVHs and TEHs CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	0.03		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	2.5		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	21		0.1	%		27-AUG-05	VN	R318405
L309982-38 ET-1157 (BAG LABELLED 1057) ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	16		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	2.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	104		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	13		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	45.0		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	32		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	24		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	13		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	54		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	60		10	mg/kg		29-AUG-05	QLI	R318881
L309982-39 ET-1158 (BAG LABELLED 1058) ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	8		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	0.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	37		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	8		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	10.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	9		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	8		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-39 ET-1158 (BAG LABELLED 1058 ROBERTS BAY)									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
Metals in Soil - CCME List									
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		23		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-40 ET-1159 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		30-AUG-05		
F1-BTEX		<5		5	mg/kg		30-AUG-05		
F2 (C10-C16)		6	IPC	5	mg/kg		30-AUG-05		
F3 (C16-C34)		210	IPC	5	mg/kg		30-AUG-05		
F4 (C34-C50)		110	IPC	5	mg/kg		30-AUG-05		
Total Hydrocarbons (C6-C50)		330		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50		NO					30-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		99		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates						29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture		39		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		9.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		492		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		12		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		35.4		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		66		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		32		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		60		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		0.6		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		50		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		110		10	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-41 ET-1160 ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	<5	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)	<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	<5		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	76		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates					29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	1.4		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	4		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.6		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	59		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	5		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	10.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	12		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	10		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	13		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	0.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	17		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-42 ET-1161 ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		30-AUG-05		
F1-BTEX	<5		5	mg/kg		30-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		30-AUG-05		
F3 (C16-C34)	45	IPC	5	mg/kg		30-AUG-05		
F4 (C34-C50)	7	IPC	5	mg/kg		30-AUG-05		
Total Hydrocarbons (C6-C50)	52		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50	NO					30-AUG-05		
CCME Total Extractable Hydrocarbons								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-43 ET-1162 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
% Moisture		4.0		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		105		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		42.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		51		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		7		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		10.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		35		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		0.31		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		26		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		351		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		1.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		22		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		50		10	mg/kg		29-AUG-05	QLI	R318881
Acid Neutralizing Capacity (CaCO3 Equiv)									
CaCO3 Equivalent		19		1	%	31-AUG-05	31-AUG-05	AES	R319537
CaO Equivalent		21		1	%	31-AUG-05	31-AUG-05	AES	R319537
Detailed Salinity									
Chloride (Cl)		<20		20	mg/L		31-AUG-05	JTV	R319324
Sulphate (SO4)		28		6	mg/L		30-AUG-05	EOC	R319201
pH and EC (Saturated Paste)									
% Saturation		37.4		0.1	%		29-AUG-05	AW	R318921
pH in Saturated Paste		8.2		0.1	pH		29-AUG-05	AW	R318921
Conductivity Sat. Paste		0.25		0.01	dS m-1		29-AUG-05	AW	R318921
SAR									
Calcium (Ca)		52		5	mg/L		30-AUG-05	EOC	R319201
Potassium (K)		5		2	mg/L		30-AUG-05	EOC	R319201
Magnesium (Mg)		5		3	mg/L		30-AUG-05	EOC	R319201
Sodium (Na)		10		2	mg/L		30-AUG-05	EOC	R319201
SAR		0.4			SAR		30-AUG-05	EOC	R319201
L309982-44 ET-1163 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		40	IPC	5	mg/kg		31-AUG-05		
F3-PAH		40		5	mg/kg		31-AUG-05		
F4 (C34-C50)		10	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		50		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-44 ET-1163 ROBERTS BAY								
Sampled By: NOT PROVIDED on 20-AUG-05								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	82		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates					29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	2.0		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	75		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	661		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	219		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	772		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	4.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	30		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	94.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	254		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	1.29		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	7		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	184		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	261		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	6.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	79		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	300		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-44 ET-1163 ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL								
CCME PAHs								
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	94		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	80		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	101		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-45 ET-1164 ROBERTS BAY Sampled By: NOT PROVIDED on 20-AUG-05 Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	36		5	mg/kg		31-AUG-05		
F1-BTEX	36		5	mg/kg		31-AUG-05		
F2 (C10-C16)	5300	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	5300		5	mg/kg		31-AUG-05		
F3 (C16-C34)	8200	IPC	5	mg/kg		31-AUG-05		
F3-PAH	8200		5	mg/kg		31-AUG-05		
F4 (C34-C50)	1200	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	15000		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Prep/Analysis Dates					29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	0.02		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	6.6		0.1	%		27-AUG-05	VN	R318405
PCBs								
Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl	73	H	74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List								
Silver (Ag)	17		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	9.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	1190		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	2.3		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	7		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	12.1		0.5	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-45 ET-1164 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
Metals in Soil - CCME List									
Copper (Cu)		29		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		13		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		22		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		2.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		26		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		160		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.1		0.1	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5		0	SOL:MI	41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl		59		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14		90		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
Note: PAH detection limit raised due to matrix interference.									
L309982-46 ET-1165 ROBERTS BAY									
Sampled By: NOT PROVIDED on 20-AUG-05									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		30-AUG-05		
F1-BTEX		<5		5	mg/kg		30-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		30-AUG-05		
F3 (C16-C34)		120	IPC	5	mg/kg		30-AUG-05		
F4 (C34-C50)		44	IPC	5	mg/kg		30-AUG-05		
Total Hydrocarbons (C6-C50)		160		5	mg/kg		30-AUG-05		
Chromatogram to baseline at nC50		NO					30-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		77		61-151	%	29-AUG-05	29-AUG-05	JNW	R319330
Prep/Analysis Dates						29-AUG-05	29-AUG-05	JNW	R319330
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture		9.1		0.1	%		27-AUG-05	VN	R318405

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-46	ET-1165 ROBERTS BAY								
Sampled By:	NOT PROVIDED on 20-AUG-05								
Matrix:	SOIL								
PCBs									
	Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1254	0.02		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	75		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									
	Silver (Ag)	729		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	244		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	804		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	9.1		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	43		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	69.1		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	200		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	1.75		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	3		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	226		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	812		5	mg/kg		29-AUG-05	QLI	R318881
	Antimony (Sb)	9.0		0.2	mg/kg		29-AUG-05	QLI	R318881
	Selenium (Se)	0.9		0.2	mg/kg		29-AUG-05	QLI	R318881
	Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
	Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
	Vanadium (V)	80		1	mg/kg		29-AUG-05	QLI	R318881
	Zinc (Zn)	370		10	mg/kg		29-AUG-05	QLI	R318881
L309982-47	ET-1070 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
Metals in Soil - CCME List									
	Silver (Ag)	28		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	31.4		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	587		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	11		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	29.4		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	38		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	62		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	56		5	mg/kg		29-AUG-05	QLI	R318881
	Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-47 ET-1070 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	38		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	90		10	mg/kg		29-AUG-05	QLI	R318881
L309982-48 ET-1171 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	32		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	50.8		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	1720		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	0.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	23		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	95.3		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	90		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	101		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	349		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	111		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	330		10	mg/kg		29-AUG-05	QLI	R318881
L309982-49 ET-1172 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	7		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	21		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	4		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	4.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	5		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	6		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-49 ET-1172 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	15		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-50 ET-1173 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	8		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	17		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	6		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	8.0		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	6		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	8		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	20		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	40		10	mg/kg		29-AUG-05	QLI	R318881
L309982-51 ET-1174 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	19.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	46		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	6		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	7.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	16		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	8		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	0.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-51 ET-1174 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
Metals in Soil - CCME List								
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	22		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-52 ET-1175 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	87	IPC	5	mg/kg		31-AUG-05		
F3-PAH	87		5	mg/kg		31-AUG-05		
F4 (C34-C50)	55	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	140		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	94		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
TCLP Leachable Metals								
TCLP Leachable Metals								
Silver (Ag)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Arsenic (As)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Boron (B)	<5		5	mg/L		17-NOV-05	CLL	R347652
Barium (Ba)	<5		5	mg/L		17-NOV-05	CLL	R347652
Beryllium (Be)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Cadmium (Cd)	<0.05		0.05	mg/L		17-NOV-05	CLL	R347652
Cobalt (Co)	<5		5	mg/L		17-NOV-05	CLL	R347652
Chromium (Cr)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Copper (Cu)	<5		5	mg/L		17-NOV-05	CLL	R347652
Iron (Fe)	<5		5	mg/L		17-NOV-05	CLL	R347652
Mercury (Hg)	<0.01		0.01	mg/L		17-NOV-05	CLL	R347652
Nickel (Ni)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Lead (Pb)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Antimony (Sb)	<5		5	mg/L		17-NOV-05	CLL	R347652
Selenium (Se)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Thallium (Tl)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Uranium (U)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Vanadium (V)	<5		5	mg/L		17-NOV-05	CLL	R347652
Zinc (Zn)	<5		5	mg/L		17-NOV-05	CLL	R347652
Zirconium (Zr)	<5		5	mg/L		17-NOV-05	CLL	R347652
% Moisture	11		0.1	%		27-AUG-05	VN	R318405
OC Screen GC/ECD								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-52 ET-1175 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
OC Screen GC/ECD								
p,p'-DDD	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDE	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDT	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Aldrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
alpha-BHC	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
beta-BHC	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
gamma-BHC (Lindane)	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Quintozine (PCNB)	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
cis-Chlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
trans-Chlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Dieldrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan I	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan II	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Heptachlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Methoxychlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Mirex	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Nonachlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Oxychlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Metals in Soil - CCME List								
Silver (Ag)	9		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	16.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	546		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	33		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	55.9		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	177		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	44		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	237		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	104		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	160		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-52 ET-1175 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
CCME PAHs								
Surr: Nitrobenzene d5	93		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	79		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	103		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-53 ET-1176 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	7	IPC	5	mg/kg		31-AUG-05		
F3-PAH	7		5	mg/kg		31-AUG-05		
F4 (C34-C50)	<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	7		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	89		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	9.6		0.1	%		27-AUG-05	VN	R318405
OC Screen GC/ECD								
p,p'-DDD	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDE	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDT	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Aldrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
alpha-BHC	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
beta-BHC	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
gamma-BHC (Lindane)	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Quintozine (PCNB)	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
cis-Chlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
trans-Chlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Dieldrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan I	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan II	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endrin	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Heptachlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Methoxychlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Mirex	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Nonachlor	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Oxychlordane	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Metals in Soil - CCME List								
Silver (Ag)	4		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.2		0.2	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-53 ET-1176 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
Metals in Soil - CCME List									
Barium (Ba)		31		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		6		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		13.2		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		16		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		12		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		23		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5		94		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl		80		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14		104		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-54 ET-1177 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		27	IPC	5	mg/kg		31-AUG-05		
F3-PAH		27		5	mg/kg		31-AUG-05		
F4 (C34-C50)		11	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		38		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		89		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-54 ET-1177 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME BTEX									
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture		14		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		0.8		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		39		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		7		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		11.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		24		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		11		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		27		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		40		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	97		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	82		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	102		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-55 ET-1178 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		49	IPC	5	mg/kg		31-AUG-05		
F3-PAH		49		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-55 ET-1178 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F4 (C34-C50)	14	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	63		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	102		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	13		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	45		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	7		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	14.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	16		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	12		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	7		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	29		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	40		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	95		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	82		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	99		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-56 ET-1179 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-56	ET-1179 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		13	IPC	5	mg/kg		31-AUG-05		
F3-PAH		13		5	mg/kg		31-AUG-05		
F4 (C34-C50)		12	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		25		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		104		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture		10		0.1	%		27-AUG-05	VN	R318405
PCBs									
Aroclor 1016		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs		<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl		78		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
OC Screen GC/ECD									
p,p'-DDD		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDE		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
p,p'-DDT		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Aldrin		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
alpha-BHC		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
beta-BHC		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
gamma-BHC (Lindane)		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Quintozine (PCNB)		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
cis-Chlordane		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
trans-Chlordane		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Dieldrin		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan I		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endosulfan II		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Endrin		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Heptachlor		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Methoxychlor		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Mirex		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Nonachlor		<0.005		0.005	mg/kg		01-SEP-05	TN	R321775

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-56 ET-1179 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
OC Screen GC/ECD								
Oxychlordan	<0.005		0.005	mg/kg		01-SEP-05	TN	R321775
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.7		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	33		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	6		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	10.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	16		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	10		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	13		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	24		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	40		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	96		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	83		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	99		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-57 ET-1180 ROBERTS BAY Sampled By: NOT PROVIDED Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	<5	IPC	5	mg/kg		31-AUG-05		
F3-PAH	<5		5	mg/kg		31-AUG-05		
F4 (C34-C50)	6	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	6		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-57 ET-1180 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Extractable Hydrocarbons								
Surr: Androstane	66		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture	8.7		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	0.8		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	29		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	5		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	8.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	14		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	7		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	25		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	30		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	79		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	74		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	103		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-58 ET-1181 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-58 ET-1181 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		7	IPC	5	mg/kg		31-AUG-05		
F3-PAH		7		5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		7		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		YES					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		91		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Toluene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Ethylbenzene		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
Xylenes		<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
% Moisture		8.8		0.1	%		27-AUG-05	VN	R318405
PCBs									
Aroclor 1016		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1221		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1232		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1242		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1248		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1254		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1260		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1262		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Aroclor 1268		<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Total PCBs		<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr: Decachlorobiphenyl		75		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									
Silver (Ag)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		0.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		20		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		5		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		9.2		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		11		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		8		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		6		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		21		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-58	ET-1181 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
CCME PAHs									
	Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	88		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	77		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	99		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-59	ET-1166 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
	F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
	F1-BTEX	<5		5	mg/kg		31-AUG-05		
	F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
	F2-Naphth	<5		5	mg/kg		31-AUG-05		
	F3 (C16-C34)	24	IPC	5	mg/kg		31-AUG-05		
	F3-PAH	24		5	mg/kg		31-AUG-05		
	F4 (C34-C50)	21	IPC	5	mg/kg		31-AUG-05		
	Total Hydrocarbons (C6-C50)	45		5	mg/kg		31-AUG-05		
	Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	110		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
	Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
	Benzene	<0.005		0.005	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
	Toluene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
	Ethylbenzene	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
	Xylenes	<0.01		0.01	mg/kg	27-AUG-05	29-AUG-05	DCM	R319115
	% Moisture	2.5		0.1	%		27-AUG-05	VN	R318405
PCBs									
	Aroclor 1016	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1221	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1232	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1242	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1248	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1254	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1260	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1262	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Aroclor 1268	<0.01		0.01	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
	Total PCBs	<0.05		0.05	mg/kg	29-AUG-05	30-AUG-05	HCB	R319654
Surr:	Decachlorobiphenyl	79		74-126	%	29-AUG-05	30-AUG-05	HCB	R319654
Metals in Soil - CCME List									

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-59	ET-1166 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
Metals in Soil - CCME List									
	Silver (Ag)	140		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	15.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	254		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	12		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	22.6		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	46		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	0.06		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	48		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	34		5	mg/kg		29-AUG-05	QLI	R318881
	Antimony (Sb)	5.5		0.2	mg/kg		29-AUG-05	QLI	R318881
	Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
	Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
	Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
	Vanadium (V)	40		1	mg/kg		29-AUG-05	QLI	R318881
	Zinc (Zn)	60		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
	Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
	Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	96		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	83		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	101		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-60	ET-1168 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
Metals in Soil - CCME List									
	Silver (Ag)	2920		1	mg/kg		29-AUG-05	QLI	R318881
	Arsenic (As)	379		0.2	mg/kg		29-AUG-05	QLI	R318881
	Barium (Ba)	402		5	mg/kg		29-AUG-05	QLI	R318881
	Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
	Cadmium (Cd)	4.9		0.5	mg/kg		29-AUG-05	QLI	R318881
	Cobalt (Co)	99		1	mg/kg		29-AUG-05	QLI	R318881
	Chromium (Cr)	67.4		0.5	mg/kg		29-AUG-05	QLI	R318881
	Copper (Cu)	652		2	mg/kg		29-AUG-05	QLI	R318881
	Mercury (Hg)	6.13		0.05	mg/kg		29-AUG-05	QLI	R318881
	Molybdenum (Mo)	6		1	mg/kg		29-AUG-05	QLI	R318881
	Nickel (Ni)	360		2	mg/kg		29-AUG-05	QLI	R318881
	Lead (Pb)	2750		5	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-60	ET-1168 ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
Metals in Soil - CCME List									
Antimony (Sb)		19.8		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		2.6		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		106		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		780		10	mg/kg		29-AUG-05	QLI	R318881
Acid Neutralizing Capacity (CaCO3 Equiv)									
CaCO3 Equivalent		16		1	%	31-AUG-05	31-AUG-05	AES	R319537
CaO Equivalent		18		1	%	31-AUG-05	31-AUG-05	AES	R319537
Detailed Salinity									
Chloride (Cl)		<20		20	mg/L		31-AUG-05	WYA	R319600
Sulphate (SO4)		188		6	mg/L		31-AUG-05	AHY	R319746
pH and EC (Saturated Paste)									
% Saturation		27.6		0.1	%		30-AUG-05	AW	R319365
pH in Saturated Paste		7.8		0.1	pH		30-AUG-05	AW	R319365
Conductivity Sat. Paste		0.54		0.01	dS m-1		30-AUG-05	AW	R319365
SAR									
Calcium (Ca)		109		5	mg/L		31-AUG-05	AHY	R319746
Potassium (K)		6		2	mg/L		31-AUG-05	AHY	R319746
Magnesium (Mg)		13		3	mg/L		31-AUG-05	AHY	R319746
Sodium (Na)		12		2	mg/L		31-AUG-05	AHY	R319746
SAR		0.3			SAR		31-AUG-05	AHY	R319746
L309982-61	ET-1162B ROBERTS BAY								
Sampled By:	NOT PROVIDED								
Matrix:	SOIL								
Metals in Soil - CCME List									
Silver (Ag)		<1		1	mg/kg		30-AUG-05	QLI	R319418
Arsenic (As)		25.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		34		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		28		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		54.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		63		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		5		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		51		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		30		5	mg/kg		30-AUG-05	QLI	R319418
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		79		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		140		10	mg/kg		29-AUG-05	QLI	R318881

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-62 ET-1167 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		6		5	mg/kg		27-SEP-05		
F1-BTEX		6		5	mg/kg		27-SEP-05		
F2 (C10-C16)		2000	IPC	5	mg/kg		27-SEP-05		
F3 (C16-C34)		5300	IPC	5	mg/kg		27-SEP-05		
F4 (C34-C50)		89	IPC	5	mg/kg		27-SEP-05		
Total Hydrocarbons (C6-C50)		7400		5	mg/kg		27-SEP-05		
Chromatogram to baseline at nC50		NO					27-SEP-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		142		61-151	%	25-SEP-05	26-SEP-05	MKE	R328906
Prep/Analysis Dates						25-SEP-05	26-SEP-05	MKE	R328906
CCME BTEX									
Benzene		<0.005		0.005	mg/kg	26-SEP-05	26-SEP-05	DCD	R328669
Toluene		<0.01		0.01	mg/kg	26-SEP-05	26-SEP-05	DCD	R328669
Ethylbenzene		<0.01		0.01	mg/kg	26-SEP-05	26-SEP-05	DCD	R328669
Xylenes		<0.01		0.01	mg/kg	26-SEP-05	26-SEP-05	DCD	R328669
Note: Sample data for BTEX,F1 results unreliable due to the sample being dried and ground prior to extract									
Metals in Soil - CCME List									
Silver (Ag)		9		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		19.1		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		581		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		1.6		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		30		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		71.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		100		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		0.06		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		62		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		69		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		4.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		100		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		140		10	mg/kg		29-AUG-05	QLI	R318881
L309982-63 ET-1169 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)		19	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		19		5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-63 ET-1169 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
Chromatogram to baseline at nC50	YES					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	102		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates					29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	9.6		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	3		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	14.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	669		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	11		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	28.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	33		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	29		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	61		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	43		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	100		10	mg/kg		29-AUG-05	QLI	R318881
Acid Neutralizing Capacity (CaCO3 Equiv)								
CaCO3 Equivalent	11		1	%	31-AUG-05	31-AUG-05	AES	R319537
CaO Equivalent	12		1	%	31-AUG-05	31-AUG-05	AES	R319537
Detailed Salinity								
Chloride (Cl)	50		20	mg/L		31-AUG-05	JTV	R319324
Sulphate (SO4)	321		6	mg/L		30-AUG-05	EOC	R319201
pH and EC (Saturated Paste)								
% Saturation	25.0		0.1	%		30-AUG-05	NKC	R319256
pH in Saturated Paste	7.4		0.1	pH		30-AUG-05	NKC	R319256
Conductivity Sat. Paste	0.91		0.01	dS m-1		30-AUG-05	NKC	R319256
SAR								
Calcium (Ca)	114		5	mg/L		30-AUG-05	EOC	R319201
Potassium (K)	31		2	mg/L		30-AUG-05	EOC	R319201
Magnesium (Mg)	29		3	mg/L		30-AUG-05	EOC	R319201
Sodium (Na)	88		2	mg/L		30-AUG-05	EOC	R319201
SAR	1.9			SAR		30-AUG-05	EOC	R319201
L309982-64 ET-1068 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-64 ET-1068 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
TCLP Leachable Metals								
TCLP Leachable Metals								
Silver (Ag)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Arsenic (As)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Boron (B)	<5		5	mg/L		17-NOV-05	CLL	R347652
Barium (Ba)	<5		5	mg/L		17-NOV-05	CLL	R347652
Beryllium (Be)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Cadmium (Cd)	0.20		0.05	mg/L		17-NOV-05	CLL	R347652
Cobalt (Co)	<5		5	mg/L		17-NOV-05	CLL	R347652
Chromium (Cr)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Copper (Cu)	<5		5	mg/L		17-NOV-05	CLL	R347652
Iron (Fe)	<5		5	mg/L		17-NOV-05	CLL	R347652
Mercury (Hg)	<0.01		0.01	mg/L		17-NOV-05	CLL	R347652
Nickel (Ni)	1.1		0.5	mg/L		17-NOV-05	CLL	R347652
Lead (Pb)	42.7		0.5	mg/L		17-NOV-05	CLL	R347652
Antimony (Sb)	<5		5	mg/L		17-NOV-05	CLL	R347652
Selenium (Se)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Thallium (Tl)	<0.5		0.5	mg/L		17-NOV-05	CLL	R347652
Uranium (U)	<0.2		0.2	mg/L		17-NOV-05	CLL	R347652
Vanadium (V)	<5		5	mg/L		17-NOV-05	CLL	R347652
Zinc (Zn)	9		5	mg/L		17-NOV-05	CLL	R347652
Zirconium (Zr)	<5		5	mg/L		17-NOV-05	CLL	R347652
Metals in Soil - CCME List								
Silver (Ag)	8030		1	mg/kg		30-AUG-05	QLI	R319418
Arsenic (As)	521		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	352		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	7.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	138		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	67.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	979		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	10.3		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	8		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	444		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	4670		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	19.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	4.4		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	100		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	1140		10	mg/kg		29-AUG-05	QLI	R318881
L309982-65 ET-1170 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)	9	IPC	5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-65 ET-1170 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		9		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		YES					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		99		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture		6.4		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		5		1	mg/kg		30-AUG-05	QLI	R319418
Arsenic (As)		29.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		847		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		11		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		28.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		38		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		0.09		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		47		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		78		5	mg/kg		30-AUG-05	QLI	R319418
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		42		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		100		10	mg/kg		29-AUG-05	QLI	R318881
L309982-66 ET-1171 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F3 (C16-C34)		<5		5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		<5		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		YES					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		102		61-151	%	29-AUG-05	30-AUG-05	AAT	R319838
Prep/Analysis Dates						29-AUG-05	30-AUG-05	AAT	R319838
CCME BTEX									
Benzene		<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-66 ET-1171 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME BTEX								
Toluene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	17		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	2		1	mg/kg		30-AUG-05	QLI	R319418
Arsenic (As)	50.7		0.2	mg/kg		30-AUG-05	QLI	R319418
Barium (Ba)	1790		5	mg/kg		30-AUG-05	QLI	R319418
Beryllium (Be)	<1		1	mg/kg		30-AUG-05	QLI	R319418
Cadmium (Cd)	0.7		0.5	mg/kg		30-AUG-05	QLI	R319418
Cobalt (Co)	23		1	mg/kg		30-AUG-05	QLI	R319418
Chromium (Cr)	93.6		0.5	mg/kg		30-AUG-05	QLI	R319418
Copper (Cu)	93		2	mg/kg		30-AUG-05	QLI	R319418
Mercury (Hg)	0.15		0.05	mg/kg		30-AUG-05	QLI	R319418
Molybdenum (Mo)	<1		1	mg/kg		30-AUG-05	QLI	R319418
Nickel (Ni)	110		2	mg/kg		30-AUG-05	QLI	R319418
Lead (Pb)	307		5	mg/kg		30-AUG-05	QLI	R319418
Antimony (Sb)	1.0		0.2	mg/kg		30-AUG-05	QLI	R319418
Selenium (Se)	<0.2		0.2	mg/kg		30-AUG-05	QLI	R319418
Tin (Sn)	<5		5	mg/kg		30-AUG-05	QLI	R319418
Thallium (Tl)	<1		1	mg/kg		30-AUG-05	QLI	R319418
Uranium (U)	<40		40	mg/kg		30-AUG-05	QLI	R319418
Vanadium (V)	110		1	mg/kg		30-AUG-05	QLI	R319418
Zinc (Zn)	310		10	mg/kg		30-AUG-05	QLI	R319418
L309982-67 ET-1182 ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	100	IPC	5	mg/kg		31-AUG-05		
F3-PAH	100		5	mg/kg		31-AUG-05		
F4 (C34-C50)	7	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)	110		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50	NO					31-AUG-05		
CCME Total Extractable Hydrocarbons								
Surr: Androstane	110		61-151	%	29-AUG-05	30-AUG-05	JNW	R319733
Prep/Analysis Dates					29-AUG-05	30-AUG-05	JNW	R319733
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	20		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-67 ET-1182 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
Metals in Soil - CCME List									
Silver (Ag)		47		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		1.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		85		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		10		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		36.8		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		42		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		21		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		7		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		47		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		60		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5		82		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl		76		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14		103		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-68 IDA ADIT ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F1 (C6-C10)		<5		5	mg/kg		31-AUG-05		
F1-BTEX		<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)		<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth		<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)		46	IPC	5	mg/kg		31-AUG-05		
F3-PAH		46		5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5	IPC	5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		46		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		YES					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr: Androstane		102		61-151	%	29-AUG-05	30-AUG-05	JNW	R319733
Prep/Analysis Dates						29-AUG-05	30-AUG-05	JNW	R319733

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-68 IDA ADIT ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME BTEX								
Benzene	<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes	<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
% Moisture	7.4		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List								
Silver (Ag)	9		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)	1.9		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)	59		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)	1.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)	17		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)	21.0		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)	93		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)	<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)	20		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)	173		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)	<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)	0.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)	<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)	<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)	<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)	56		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)	370		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs								
Naphthalene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene	<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr: Nitrobenzene d5	88		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: 2-Fluorobiphenyl	77		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr: p-Terphenyl d14	98		63-135	%	29-AUG-05	31-AUG-05	UM	R318997
L309982-69 IDA BACKGROUND ROBERTS BAY								
Sampled By: NOT PROVIDED								
Matrix: SOIL								
CCME BTEX, TVHs and TEHs								
CCME Total Hydrocarbons								
F1 (C6-C10)	<5		5	mg/kg		31-AUG-05		
F1-BTEX	<5		5	mg/kg		31-AUG-05		
F2 (C10-C16)	<5	IPC	5	mg/kg		31-AUG-05		
F2-Naphth	<5		5	mg/kg		31-AUG-05		
F3 (C16-C34)	<5	IPC	5	mg/kg		31-AUG-05		

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-69 IDA BACKGROUND ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
CCME BTEX, TVHs and TEHs									
CCME Total Hydrocarbons									
F3-PAH		<5	IPC	5	mg/kg		31-AUG-05		
F4 (C34-C50)		<5		5	mg/kg		31-AUG-05		
Total Hydrocarbons (C6-C50)		<5		5	mg/kg		31-AUG-05		
Chromatogram to baseline at nC50		YES					31-AUG-05		
CCME Total Extractable Hydrocarbons									
Surr:	Androstane	108		61-151	%	29-AUG-05	30-AUG-05	JNW	R319733
	Prep/Analysis Dates					29-AUG-05	30-AUG-05	JNW	R319733
CCME BTEX									
Benzene		<0.005		0.005	mg/kg		28-AUG-05	CTL	R318864
Toluene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Ethylbenzene		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
Xylenes		<0.01		0.01	mg/kg		28-AUG-05	CTL	R318864
%									
Moisture		8.7		0.1	%		27-AUG-05	VN	R318405
Metals in Soil - CCME List									
Silver (Ag)		45		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		1.0		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		37		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		5		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		11.0		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		16		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		9		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		8		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		22		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
CCME PAHs									
Naphthalene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Quinoline		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Phenanthrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(b)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(k)fluoranthene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Benzo(a)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Indeno(1,2,3-cd)pyrene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Dibenzo(a,h)anthracene		<0.01		0.01	mg/kg	29-AUG-05	31-AUG-05	UM	R318997
Surr:	Nitrobenzene d5	91		41-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	2-Fluorobiphenyl	82		53-115	%	29-AUG-05	31-AUG-05	UM	R318997
Surr:	p-Terphenyl d14	103		63-135	%	29-AUG-05	31-AUG-05	UM	R318997

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L309982-70 IDA 05 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
Metals in Soil - CCME List									
Silver (Ag)		27		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		0.5		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		38		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		3		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		5.1		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		4		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		4		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		36		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		13		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-71 IDA 06 ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
Metals in Soil - CCME List									
Silver (Ag)		22		1	mg/kg		29-AUG-05	QLI	R318881
Arsenic (As)		0.3		0.2	mg/kg		29-AUG-05	QLI	R318881
Barium (Ba)		23		5	mg/kg		29-AUG-05	QLI	R318881
Beryllium (Be)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Cadmium (Cd)		<0.5		0.5	mg/kg		29-AUG-05	QLI	R318881
Cobalt (Co)		4		1	mg/kg		29-AUG-05	QLI	R318881
Chromium (Cr)		7.9		0.5	mg/kg		29-AUG-05	QLI	R318881
Copper (Cu)		11		2	mg/kg		29-AUG-05	QLI	R318881
Mercury (Hg)		<0.05		0.05	mg/kg		29-AUG-05	QLI	R318881
Molybdenum (Mo)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Nickel (Ni)		6		2	mg/kg		29-AUG-05	QLI	R318881
Lead (Pb)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Antimony (Sb)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Selenium (Se)		<0.2		0.2	mg/kg		29-AUG-05	QLI	R318881
Tin (Sn)		<5		5	mg/kg		29-AUG-05	QLI	R318881
Thallium (Tl)		<1		1	mg/kg		29-AUG-05	QLI	R318881
Uranium (U)		<40		40	mg/kg		29-AUG-05	QLI	R318881
Vanadium (V)		18		1	mg/kg		29-AUG-05	QLI	R318881
Zinc (Zn)		30		10	mg/kg		29-AUG-05	QLI	R318881
L309982-72 ET-1171B ROBERTS BAY									
Sampled By: NOT PROVIDED									
Matrix: SOIL									
Metals in Soil - CCME List									
Silver (Ag)		21		1	mg/kg		29-AUG-05	QLI	R318881

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client ID	Qualifier	Description
L309982-1	STREAM MOUTH ROBERTS	ISCR:ST	TOC TAKEN FROM ROUTINE - Improper Sample Container Received: Subsamples Taken

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHM	Detection Limit Adjusted: Sample has High Moisture Content
H	Result falls within the 99% Confidence Interval (Laboratory Control Limits)
IPC	Instrument performance not showing the C50 response factor within 30% of the average of C10, C16 & C34 response factors.
RAMB	Result Adjusted For Method Blank
RRV	Reported Result Verified By Repeat Analysis
SDO:RNA	Surrogate diluted out:% recovery not available
SOL:MI	Surrogate recovery outside acceptable limits due to matrix interference

Methods Listed (if applicable):

ETL Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
ACID-NEUT-CAP-SK	Misc.	Acid Neutralizing Capacity (CaCO3 Equiv)		AOAC 955.01
BTX,F1-ED	Water	BTEX and F1 (C6-C10)	EPA 5030	EPA 5030/8015&8260-P&T GC-MS & FID
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CD-ED	Soil	Cadmium (Cd)	EPA 3050	EPA 200.7
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
CL-SAR-ED	Soil	Chloride (Cl) (Saturated Paste)		APHA 4500 Cl E-Colorimetry
CR-ED	Soil	Chromium (Cr)	EPA 3050	EPA 200.7
ETL-BTX,TVH-CCME-ED	Soil	CCME BTEX	EPA 5030	CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-METAL-TCLP-ED	Waste	TCLP Leachable Metals		EPA 6020
ETL-ROUTINE-ICP-ED	Water	ICP metals and SO4 for routine water		APHA 3120 B-ICP-OES
ETL-TEH-CCME-ED	Soil	CCME Total Extractable Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310
ETL-TVH,TEH-CCME-ED	Soil	CCME Total Hydrocarbons		CCME CWS-PHC Dec-2000 - Pub# 1310

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes have been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.

Reference Information

ETL-TVH-CCME-ED	Soil	CCME TVHs (C6 - C10)	EPA 5030	CCME CWS-PHC Dec-2000 - Pub# 1310
F2-ED	Water	F2 (>C10-C16)		EPA 3510/8000-GC-FID
HIS-C1-C60-CL	Product	C1-C60 GC/FID Scan	EPA 3580A	EPA 3580/8000-GC-FID
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
MET1-DIS-ED	Water	Dissolved Trace Metals		EPA 6020
MET1-DIS-LOW-ED	Water	Dissolved Trace Metals (Low Level)		EPA 6020
MET1-TOT-ED	Water	Total Trace Metals	EPA3015	EPA 6020
MET1-TOT-LOW-ED	Water	Total Trace Metals (Low Level)	EPA3015	EPA 6020
MET2-DIS-ED	Water	Dissolved Major Metals		EPA 200.7
MET2-TOT-ED	Water	Total Major Metals	EPA3015	EPA 200.7
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7
METAL-CCME-ED	Soil	Metals in Soil - CCME List	EPA 3050	EPA 6020
N2N3-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3H-Colorimetry
NO2-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
OCSCREEN-ED	Water	OC Screen GC/ECD		EPA 8081-GC/ECD
OCSCREEN-ED	Soil	OC Screen GC/ECD		EPA 8081-GC/ECD
PAH-CCME-ED	Soil	CCME PAHs	EPA 3540C	EPA 3540/8270-GC/MS
PB-ED	Soil	Lead (Pb)	EPA 3050	EPA 200.7
PB-HIGH-ED	Bulk	Lead (Pb)	EPA 3050	APHA 3111 C
PB-TCLP-ED	Waste	Leachable Lead (Pb), TCLP		EPA 6020
PCB-ED	Water	PCBs		EPA 3510/8082-GC-ECD
PCB-ED	Soil	PCBs		EPA 3550/8082-GC-ECD
PCB-PAINT-ED	Misc.	PCBs in Paint		EPA 3550/8082-GC-ECD
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320
PREP-MOISTURE-ED	Soil	% Moisture		Oven dry 105C-Gravimetric
SAR-CALC-ED	Soil	SAR		CSSS 18.4-Calculation
SAT/PH/EC-ED	Soil	pH and EC (Saturated Paste)		CSSS 18.2, 16.2, 18.3
SO4-SAR-ED	Soil	Sulfate (SO4) in saturated paste		APHA 3120 B-ICP-OES

Reference Information

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

216629	216631	216633	216634	216635
216636	216643	216644	216646	216647

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
CL	Enviro-Test Laboratories - Calgary, Alberta, Canada	ED	Enviro-Test Laboratories - Edmonton, Alberta, Canada
SK	Enviro-Test Laboratories - Saskatoon, Saskatchewan, Canada	SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

< - Less than

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.

ENVIRO-TEST SOIL SALINITY CONVERSION

L309982

Lab ID Sample ID					Lab ID Sample ID				
L309982-43 ET-1162 ROBERTS BAY					L309982-60 ET-1168 ROBERTS BAY				
Sample Date: 20-AUG-05					Sample Date:				
Matrix: SOIL					Matrix: SOIL				
	Result mg/L	% Sat	Meq/L	Dry Soil mg/kg		Result mg/L	% Sat	Meq/L	Dry Soil mg/kg
Chloride (Cl)	<20	37.36			Chloride (Cl)	<20	27.57		
Sulphate (SO4)	28	37.36	0.59	10.60	Sulphate (SO4)	188	27.57	3.91	51.77
Calcium (Ca)	52	37.36	2.62	19.58	Calcium (Ca)	109	27.57	5.45	30.13
Potassium (K)	5	37.36	0.12	1.74	Potassium (K)	6	27.57	0.16	1.77
Magnesium (Mg)	5	37.36	0.43	1.94	Magnesium (Mg)	13	27.57	1.09	3.64
Sodium (Na)	10	37.36	0.44	3.75	Sodium (Na)	12	27.57	0.53	3.38
L309982-63 ET-1169 ROBERTS BAY									
Sample Date:									
Matrix: SOIL									
	Result mg/L	% Sat	Meq/L	Dry Soil mg/kg					
Chloride (Cl)	50	25.02	1.32	11.68					
Sulphate (SO4)	321	25.02	6.69	80.39					
Calcium (Ca)	114	25.02	5.69	28.50					
Potassium (K)	31	25.02	0.79	7.68					
Magnesium (Mg)	29	25.02	2.40	7.30					
Sodium (Na)	88	25.02	3.84	22.11					
"Calculations are as per: Methods of Analysis for Soils, Plants and Waters Homer D. Chapman and Parker F. Pratt University of California, Riverside, Cl. August, 1961."									

Enviro-Test Quality Control Report

Workorder: L309982

Client: EARTH TECH (CANADA) INC
 17203 103 AVE
 EDMONTON AB T5S 1J4

Contact: GORD WOOLLETT

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX,F1-ED		<u>Water</u>						
Batch	R319106							
WG343560-1	DUP	L309850-3						
Benzene		<0.0005	<0.0005	RPD-NA	mg/L	N/A	8.3	29-AUG-05
EthylBenzene		<0.0005	<0.0005	RPD-NA	mg/L	N/A	9.3	29-AUG-05
Toluene		<0.0005	<0.0005	RPD-NA	mg/L	N/A	10	29-AUG-05
F1(C6-C10)		<0.1	<0.1	RPD-NA	mg/L	N/A	13	29-AUG-05
Xylenes		<0.0005	<0.0005	RPD-NA	mg/L	N/A	11	29-AUG-05
WG344323-2	LCS							
Benzene			87		%		70-128	30-AUG-05
EthylBenzene			83		%		74-124	30-AUG-05
Toluene			74		%		68-123	30-AUG-05
F1(C6-C10)			65	H	%		72-131	30-AUG-05
Xylenes			85		%		74-129	30-AUG-05
WG344323-1	MB							
Benzene			<0.0005		mg/L		0.0005	29-AUG-05
EthylBenzene			<0.0005		mg/L		0.0005	29-AUG-05
Toluene			<0.0005		mg/L		0.0005	29-AUG-05
F1(C6-C10)			<0.1		mg/L		0.1	29-AUG-05
Xylenes			<0.0005		mg/L		0.0005	29-AUG-05
WG343560-2	MS	L309849-5						
Benzene			113		%		67-129	29-AUG-05
EthylBenzene			109		%		68-126	29-AUG-05
Toluene			125	H	%		64-123	29-AUG-05
Xylenes			112		%		69-128	29-AUG-05
WG343560-3	MS	L309849-5						
F1(C6-C10)			62	H	%		67-132	29-AUG-05
2-TOT-ORG-ED		<u>Water</u>						
Batch	R318721							
WG343825-4	DUP	L308885-1						
Total Organic Carbon		3	3	J	mg/L	0	3.1	29-AUG-05
WG343825-6	DUP	L309982-1						
Total Organic Carbon		13	13		mg/L	1.2	7.8	29-AUG-05
WG343825-8	DUP	L310899-1						
Total Organic Carbon		18	17		mg/L	2.0	7.8	29-AUG-05
WG343825-1	LCS							
Total Organic Carbon			99		%		92-106	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>C-TOT-ORG-ED</u>		<u>Water</u>						
Batch	R318721							
WG343825-2	MB							
Total Organic Carbon			<1		mg/L		1	29-AUG-05
WG343825-3	MB							
Total Organic Carbon			<1		mg/L		1	29-AUG-05
WG343825-5	MS	L308885-1						
Total Organic Carbon			97		%		84-107	29-AUG-05
WG343825-7	MS	L309982-1						
Total Organic Carbon			96		%		84-107	29-AUG-05
WG343825-9	MS	L310899-1						
Total Organic Carbon			100		%		84-107	29-AUG-05
<u>CL-ED</u>		<u>Water</u>						
Batch	R318891							
WG343632-11	DUP	L310243-1						
Chloride (Cl)		9	9	J	mg/L	0	3.1	29-AUG-05
WG343632-2	LCS							
Chloride (Cl)			105		%		93-107	29-AUG-05
WG343632-3	LCS							
Chloride (Cl)			104		%		93-107	29-AUG-05
WG343632-1	MB							
Chloride (Cl)			<1		mg/L		1	29-AUG-05
WG343632-12	MS	L310243-1						
Chloride (Cl)			105		%		92-112	29-AUG-05
<u>ETL-ROUTINE-ICP-ED</u>		<u>Water</u>						
Batch	R318787							
WG343660-3	CRM	DEER 97 WATER						
Calcium (Ca)			102		%		94-107	29-AUG-05
Magnesium (Mg)			102		%		94-107	29-AUG-05
Potassium (K)			95		%		91-103	29-AUG-05
Sodium (Na)			97		%		90-103	29-AUG-05
Sulfate (SO4)			95		%		88-101	29-AUG-05
WG343660-11	DUP	L310243-1						
Calcium (Ca)		72.1	71.9		mg/L	0.26	11	29-AUG-05
Magnesium (Mg)		22.6	22.5		mg/L	0.50	7.8	29-AUG-05
Potassium (K)		9.1	9.0		mg/L	1.1	12	29-AUG-05
Sodium (Na)		139	137		mg/L	1.7	7.8	29-AUG-05
Sulfate (SO4)		52.3	52.3		mg/L	0.14	7.8	29-AUG-05
WG343660-13	DUP	L310644-1						
Calcium (Ca)		70.5	70.2		mg/L	0.44	11	29-AUG-05
Magnesium (Mg)		24.3	24.2		mg/L	0.30	7.8	29-AUG-05
Potassium (K)		1.2	1.2	J	mg/L	0.0	1.5	29-AUG-05
Sodium (Na)		43	42		mg/L	3.9	7.8	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ETL-ROUTINE-ICP-ED		Water						
Batch	R318787							
WG343660-13	DUP	L310644-1						
Sulfate (SO4)		132	129		mg/L	2.4	7.8	29-AUG-05
WG343660-9	DUP	L309982-1						
Calcium (Ca)		25.2	25.3		mg/L	0.17	11	29-AUG-05
Magnesium (Mg)		14.0	14.1		mg/L	0.48	7.8	29-AUG-05
Potassium (K)		2.6	2.5	J	mg/L	0.1	1.5	29-AUG-05
Sodium (Na)		48	48		mg/L	0.69	7.8	29-AUG-05
Sulfate (SO4)		23.2	23.1		mg/L	0.46	7.8	29-AUG-05
WG343660-1	MB							
Calcium (Ca)			<0.5		mg/L		2.5	29-AUG-05
Magnesium (Mg)			<0.1		mg/L		0.5	29-AUG-05
Potassium (K)			<0.5		mg/L		2.5	29-AUG-05
Sodium (Na)			<1		mg/L		5	29-AUG-05
Sulfate (SO4)			<0.5		mg/L		2.5	29-AUG-05
WG343660-10	MS	L309982-1						
Calcium (Ca)			105		%		79-120	29-AUG-05
Magnesium (Mg)			106		%		88-111	29-AUG-05
Potassium (K)			95		%		89-108	29-AUG-05
Sodium (Na)			100		%		83-116	29-AUG-05
Sulfate (SO4)			101		%		85-112	29-AUG-05
WG343660-12	MS	L310243-1						
Calcium (Ca)			104		%		79-120	29-AUG-05
Magnesium (Mg)			105		%		88-111	29-AUG-05
Potassium (K)			95		%		89-108	29-AUG-05
Sodium (Na)			102		%		83-116	29-AUG-05
Sulfate (SO4)			98		%		85-112	29-AUG-05
WG343660-14	MS	L310644-1						
Calcium (Ca)			103		%		79-120	29-AUG-05
Magnesium (Mg)			104		%		88-111	29-AUG-05
Potassium (K)			95		%		89-108	29-AUG-05
Sodium (Na)			101		%		83-116	29-AUG-05
Sulfate (SO4)			101		%		85-112	29-AUG-05
F2-ED		Water						
Batch	R319104							
WG344277-3	DUP	L310216-4						
F2 (>C10-C16)		<0.05	<0.05	RPD-NA	mg/L	N/A	54	29-AUG-05
WG344277-2	LCS							
F2 (>C10-C16)			122		%		76-126	29-AUG-05
WG344277-1	MB							
F2 (>C10-C16)			<0.05		mg/L		0.05	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET1-DIS-LOW-ED		Water						
Batch	R318107							
WG342817-7	DUP	L309982-9						
Aluminum (Al)		<0.01	<0.01	RPD-NA	mg/L	N/A	9	26-AUG-05
Antimony (Sb)		0.0006	0.0006	J	mg/L	0.0000	0.0012	26-AUG-05
Arsenic (As)		<0.0004	<0.0004	RPD-NA	mg/L	N/A	11	26-AUG-05
Barium (Ba)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	7.5	26-AUG-05
Beryllium (Be)		<0.0005	<0.0005	RPD-NA	mg/L	N/A	7.8	26-AUG-05
Bismuth (Bi)		<0.00005	<0.00005	RPD-NA	mg/L	N/A	20	26-AUG-05
Boron (B)		<0.002	<0.002	RPD-NA	mg/L	N/A	9.1	26-AUG-05
Cadmium (Cd)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	9.2	26-AUG-05
Chromium (Cr)		0.0004	<0.0004	RPD-NA	mg/L	N/A	14	26-AUG-05
Cobalt (Co)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	5.1	26-AUG-05
Copper (Cu)		<0.0006	<0.0006	RPD-NA	mg/L	N/A	10	26-AUG-05
Lead (Pb)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	12	26-AUG-05
Molybdenum (Mo)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	7.4	26-AUG-05
Nickel (Ni)		<0.0001	0.0001	RPD-NA	mg/L	N/A	11	26-AUG-05
Phosphorus (P)		<0.01	<0.01	RPD-NA	mg/L	N/A	7.7	26-AUG-05
Selenium (Se)		<0.0004	<0.0004	RPD-NA	mg/L	N/A	19	26-AUG-05
Silver (Ag)		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	26-AUG-05
Strontium (Sr)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	5	26-AUG-05
Thallium (Tl)		<0.00005	<0.00005	RPD-NA	mg/L	N/A	20	26-AUG-05
Tin (Sn)		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	26-AUG-05
Titanium (Ti)		<0.0003	<0.0003	RPD-NA	mg/L	N/A	22	26-AUG-05
Uranium (U)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	7.8	26-AUG-05
Vanadium (V)		0.0003	0.0002	J	mg/L	0.0000	0.00031	26-AUG-05
Zinc (Zn)		<0.002	<0.002	RPD-NA	mg/L	N/A	9.6	26-AUG-05
WG342817-1	MB							
Aluminum (Al)			<0.01		mg/L		0.05	26-AUG-05
Antimony (Sb)			<0.0004		mg/L		0.002	26-AUG-05
Arsenic (As)			<0.0004		mg/L		0.002	26-AUG-05
Barium (Ba)			<0.0001		mg/L		0.0005	26-AUG-05
Beryllium (Be)			<0.0005		mg/L		0.0025	26-AUG-05
Bismuth (Bi)			0.00005		mg/L		0.00025	26-AUG-05
Boron (B)			0.003		mg/L		0.01	26-AUG-05
Cadmium (Cd)			<0.0001		mg/L		0.0005	26-AUG-05
Chromium (Cr)			<0.0004		mg/L		0.002	26-AUG-05
Cobalt (Co)			<0.0001		mg/L		0.0005	26-AUG-05
Copper (Cu)			<0.0006		mg/L		0.003	26-AUG-05
Lead (Pb)			<0.0001		mg/L		0.0005	26-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET1-DIS-LOW-ED		Water						
Batch	R318107							
WG342817-1	MB							
Molybdenum (Mo)			<0.0001		mg/L		0.0005	26-AUG-05
Nickel (Ni)			<0.0001		mg/L		0.0005	26-AUG-05
Phosphorus (P)			<0.01		mg/L		0.01	26-AUG-05
Selenium (Se)			<0.0004		mg/L		0.002	26-AUG-05
Silver (Ag)			0.0007		mg/L		0.001	26-AUG-05
Strontium (Sr)			<0.0001		mg/L		0.0005	26-AUG-05
Thallium (Tl)			<0.00005		mg/L		0.00025	26-AUG-05
Tin (Sn)			<0.0002		mg/L		0.001	26-AUG-05
Titanium (Ti)			<0.0003		mg/L		0.0015	26-AUG-05
Uranium (U)			<0.0001		mg/L		0.0005	26-AUG-05
Vanadium (V)			<0.0001		mg/L		0.0005	26-AUG-05
Zinc (Zn)			<0.002		mg/L		0.01	26-AUG-05
WG342817-8	MS	L309982-9						
Aluminum (Al)			108		%		88-118	26-AUG-05
Antimony (Sb)			98		%		92-112	26-AUG-05
Arsenic (As)			102		%		92-117	26-AUG-05
Barium (Ba)			99		%		83-119	26-AUG-05
Beryllium (Be)			95		%		86-124	26-AUG-05
Bismuth (Bi)			110		%		87-117	26-AUG-05
Boron (B)			96		%		86-120	26-AUG-05
Cadmium (Cd)			102		%		90-114	26-AUG-05
Chromium (Cr)			106		%		88-117	26-AUG-05
Cobalt (Co)			102		%		90-115	26-AUG-05
Copper (Cu)			101		%		89-115	26-AUG-05
Lead (Pb)			109		%		89-116	26-AUG-05
Molybdenum (Mo)			104		%		91-117	26-AUG-05
Nickel (Ni)			101		%		89-112	26-AUG-05
Phosphorus (P)			102		%		89-123	26-AUG-05
Selenium (Se)			103		%		90-121	26-AUG-05
Silver (Ag)			101		%		45-128	26-AUG-05
Strontium (Sr)			108		%		83-120	26-AUG-05
Thallium (Tl)			109		%		90-117	26-AUG-05
Tin (Sn)			101		%		94-114	26-AUG-05
Titanium (Ti)			103		%		93-114	26-AUG-05
Uranium (U)			108		%		88-121	26-AUG-05
Vanadium (V)			105		%		91-117	26-AUG-05
Zinc (Zn)			101		%		86-118	26-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET1-TOT-LOW-ED		Water						
Batch	R319278							
WG343680-2	DUP	L309982-1						
Aluminum (Al)		0.22	0.22		mg/L	3.3	14	29-AUG-05
Antimony (Sb)		0.0005	0.0005	J	mg/L	0.0000	0.0012	29-AUG-05
Arsenic (As)		0.0005	0.0006	J	mg/L	0.0001	0.0012	29-AUG-05
Barium (Ba)		0.0204	0.0207		mg/L	1.3	11	29-AUG-05
Beryllium (Be)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	29-AUG-05
Bismuth (Bi)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	29-AUG-05
Boron (B)		0.03	0.03	J	mg/L	0.00	0.061	29-AUG-05
Cadmium (Cd)		<0.0002	<0.0002	RPD-NA	mg/L	N/A	24	29-AUG-05
Chromium (Cr)		<0.0008	<0.0008	RPD-NA	mg/L	N/A	21	29-AUG-05
Cobalt (Co)		<0.0002	<0.0002	RPD-NA	mg/L	N/A	11	29-AUG-05
Copper (Cu)		0.004	0.004	J	mg/L	0.000	0.0031	29-AUG-05
Lead (Pb)		<0.0001	0.0003	G	mg/L	N/A	18	29-AUG-05
Molybdenum (Mo)		0.0004	0.0004	J	mg/L	0.0000	0.00031	29-AUG-05
Nickel (Ni)		0.0017	0.0016	J	mg/L	0.0001	0.00061	29-AUG-05
Phosphorus (P)		0.03	0.03	J	mg/L	0.00	0.031	29-AUG-05
Selenium (Se)		0.0008	0.0008	J	mg/L	0.0000	0.0012	29-AUG-05
Silver (Ag)		<0.0004	<0.0004	RPD-NA	mg/L	N/A	25	29-AUG-05
Strontium (Sr)		0.111	0.112		mg/L	0.67	7.3	29-AUG-05
Thallium (Tl)		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	29-AUG-05
Tin (Sn)		<0.0004	<0.0004	RPD-NA	mg/L	N/A	13	29-AUG-05
Titanium (Ti)		0.008	0.006	J	mg/L	0.002	0.015	29-AUG-05
Uranium (U)		0.0003	0.0003	J	mg/L	0.0000	0.00031	29-AUG-05
Vanadium (V)		0.0004	0.0005	J	mg/L	0.0001	0.00061	29-AUG-05
Zinc (Zn)		<0.004	<0.004	RPD-NA	mg/L	N/A	25	29-AUG-05
WG343680-1	MB							
Aluminum (Al)			<0.02		mg/L		0.1	29-AUG-05
Antimony (Sb)			<0.0004		mg/L		0.002	29-AUG-05
Arsenic (As)			<0.0004		mg/L		0.002	29-AUG-05
Barium (Ba)			<0.0002		mg/L		0.001	29-AUG-05
Beryllium (Be)			<0.001		mg/L		0.005	29-AUG-05
Bismuth (Bi)			0.0001		mg/L		0.0005	29-AUG-05
Boron (B)			<0.02		mg/L		0.1	29-AUG-05
Cadmium (Cd)			<0.0002		mg/L		0.001	29-AUG-05
Chromium (Cr)			<0.0008		mg/L		0.004	29-AUG-05
Cobalt (Co)			<0.0002		mg/L		0.001	29-AUG-05
Copper (Cu)			<0.001		mg/L		0.005	29-AUG-05
Lead (Pb)			<0.0001		mg/L		0.0005	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET1-TOT-LOW-ED		Water						
Batch	R319278							
WG343680-1	MB							
Molybdenum (Mo)			<0.0001		mg/L		0.0005	29-AUG-05
Nickel (Ni)			<0.0002		mg/L		0.001	29-AUG-05
Phosphorus (P)			0.03		mg/L		0.01	29-AUG-05
Selenium (Se)			<0.0004		mg/L		0.002	29-AUG-05
Silver (Ag)			<0.0004		mg/L		0.002	29-AUG-05
Strontium (Sr)			0.0009		mg/L		0.001	29-AUG-05
Thallium (Tl)			<0.0001		mg/L		0.0005	29-AUG-05
Tin (Sn)			<0.0004		mg/L		0.002	29-AUG-05
Titanium (Ti)			<0.005		mg/L		0.025	29-AUG-05
Uranium (U)			<0.0001		mg/L		0.0005	29-AUG-05
Vanadium (V)			<0.0002		mg/L		0.001	29-AUG-05
Zinc (Zn)			<0.004		mg/L		0.02	29-AUG-05
WG343680-3	MS	L309982-3						
Aluminum (Al)			102		%		81-121	29-AUG-05
Antimony (Sb)			101		%		86-115	29-AUG-05
Arsenic (As)			99		%		87-111	29-AUG-05
Barium (Ba)			112		%		78-114	29-AUG-05
Beryllium (Be)			109		%		79-121	29-AUG-05
Bismuth (Bi)			106		%		88-113	29-AUG-05
Boron (B)			108		%		81-119	29-AUG-05
Cadmium (Cd)			99		%		88-109	29-AUG-05
Chromium (Cr)			93		%		85-113	29-AUG-05
Cobalt (Co)			109	H	%		89-109	29-AUG-05
Copper (Cu)			108		%		82-116	29-AUG-05
Lead (Pb)			105		%		87-114	29-AUG-05
Molybdenum (Mo)			100		%		87-114	29-AUG-05
Nickel (Ni)			109		%		85-112	29-AUG-05
Phosphorus (P)			91		%		78-123	29-AUG-05
Selenium (Se)			95		%		78-115	29-AUG-05
Silver (Ag)			78		%		43-132	29-AUG-05
Strontium (Sr)			101		%		65-128	29-AUG-05
Thallium (Tl)			106		%		87-116	29-AUG-05
Tin (Sn)			103		%		88-114	29-AUG-05
Titanium (Ti)			99		%		81-119	29-AUG-05
Uranium (U)			112		%		89-118	29-AUG-05
Vanadium (V)			92		%		83-117	29-AUG-05
Zinc (Zn)			105		%		72-119	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET1-TOT-LOW-ED		<u>Water</u>						
Batch	R319720							
WG344524-1	MB							
Aluminum (Al)			<0.02		mg/L		0.1	30-AUG-05
Antimony (Sb)			<0.0004		mg/L		0.002	30-AUG-05
Arsenic (As)			<0.0004		mg/L		0.002	30-AUG-05
Barium (Ba)			<0.0002		mg/L		0.001	30-AUG-05
Beryllium (Be)			<0.001		mg/L		0.005	30-AUG-05
Bismuth (Bi)			<0.0001		mg/L		0.0005	30-AUG-05
Boron (B)			<0.02		mg/L		0.1	30-AUG-05
Cadmium (Cd)			<0.0002		mg/L		0.001	30-AUG-05
Chromium (Cr)			<0.0008		mg/L		0.004	30-AUG-05
Cobalt (Co)			<0.0002		mg/L		0.001	30-AUG-05
Copper (Cu)			<0.001		mg/L		0.005	30-AUG-05
Lead (Pb)			<0.0001		mg/L		0.0005	30-AUG-05
Molybdenum (Mo)			<0.0001		mg/L		0.0005	30-AUG-05
Nickel (Ni)			<0.0002		mg/L		0.001	30-AUG-05
Phosphorus (P)			<0.01		mg/L		0.01	30-AUG-05
Selenium (Se)			<0.0004		mg/L		0.002	30-AUG-05
Silver (Ag)			<0.0004		mg/L		0.002	30-AUG-05
Strontium (Sr)			<0.0002		mg/L		0.001	30-AUG-05
Thallium (Tl)			<0.0001		mg/L		0.0005	30-AUG-05
Tin (Sn)			<0.0004		mg/L		0.002	30-AUG-05
Titanium (Ti)			<0.005		mg/L		0.025	30-AUG-05
Uranium (U)			<0.0001		mg/L		0.0005	30-AUG-05
Vanadium (V)			<0.0002		mg/L		0.001	30-AUG-05
Zinc (Zn)			<0.004		mg/L		0.02	30-AUG-05
MET2-DIS-ED		<u>Water</u>						
Batch	R318877							
WG343783-6	DUP	L309982-4						
Calcium (Ca)		N/A	29.5		mg/L	0.80	9.1	29-AUG-05
Iron (Fe)		0.075	0.075		mg/L	0.0	10	29-AUG-05
Magnesium (Mg)		N/A	7.61		mg/L	1.6	7.3	29-AUG-05
Manganese (Mn)		0.001	0.002	J	mg/L	0.001	0.0031	29-AUG-05
Potassium (K)		N/A	<0.1	RPD-NA	mg/L	N/A	15	29-AUG-05
Sodium (Na)		N/A	11.4		mg/L	0.53	12	29-AUG-05
WG343783-8	DUP	L310050-1						
Calcium (Ca)		245	245		mg/L	0.028	9.1	29-AUG-05
Iron (Fe)		0.372	0.373		mg/L	0.27	10	29-AUG-05
Magnesium (Mg)		51.5	51.7		mg/L	0.37	7.3	29-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>MET2-DIS-ED</u>		<u>Water</u>						
Batch	R318877							
WG343783-8	DUP	L310050-1						
Manganese (Mn)		1.27	1.27		mg/L	0.0	12	29-AUG-05
Potassium (K)		36.6	37.0		mg/L	1.0	15	29-AUG-05
Sodium (Na)		563	569		mg/L	1.0	12	29-AUG-05
WG343783-1	MB							
Calcium (Ca)			<0.5		mg/L		2.5	29-AUG-05
Iron (Fe)			<0.005		mg/L		0.025	29-AUG-05
Magnesium (Mg)			<0.01		mg/L		0.05	29-AUG-05
Manganese (Mn)			<0.001		mg/L		0.005	29-AUG-05
Potassium (K)			<0.1		mg/L		0.5	29-AUG-05
Sodium (Na)			<0.5		mg/L		2.5	29-AUG-05
WG343783-7	MS	L309982-4						
Calcium (Ca)			91		%		85-112	29-AUG-05
Iron (Fe)			99		%		92-108	29-AUG-05
Magnesium (Mg)			96		%		88-108	29-AUG-05
Manganese (Mn)			96		%		94-106	29-AUG-05
Potassium (K)			95		%		87-118	29-AUG-05
Sodium (Na)			93		%		79-123	29-AUG-05
<u>MET2-TOT-LOW-ED</u>		<u>Water</u>						
Batch	R318878							
WG343680-2	DUP	L309982-1						
Calcium (Ca)		22.4	22.4		mg/L	0.0045	8.8	29-AUG-05
Iron (Fe)		0.329	0.327		mg/L	0.61	12	29-AUG-05
Magnesium (Mg)		11.6	11.6		mg/L	0.22	7.8	29-AUG-05
Manganese (Mn)		0.014	0.013		mg/L	7.4	7.9	29-AUG-05
Potassium (K)		2.2	2.0		mg/L	5.2	7.8	29-AUG-05
Sodium (Na)		40	40		mg/L	0.020	7.8	29-AUG-05
WG343680-1	MB							
Calcium (Ca)			<0.5		mg/L		2.5	29-AUG-05
Iron (Fe)			0.005		mg/L		0.025	29-AUG-05
Magnesium (Mg)			<0.1		mg/L		0.5	29-AUG-05
Manganese (Mn)			0.001		mg/L		0.005	29-AUG-05
Potassium (K)			<0.1		mg/L		0.5	29-AUG-05
Sodium (Na)			<1		mg/L		5	29-AUG-05
WG343680-3	MS	L309982-3						
Calcium (Ca)			69		%		68-119	29-AUG-05
Iron (Fe)			95		%		90-107	29-AUG-05
Magnesium (Mg)			84		%		72-112	29-AUG-05
Manganese (Mn)			94		%		83-108	29-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET2-TOT-LOW-ED		<u>Water</u>						
Batch	R318878							
WG343680-3	MS	L309982-3						
Potassium (K)			93		%		80-114	29-AUG-05
Sodium (Na)			89		%		75-117	29-AUG-05
Batch	R319811							
WG344524-1	MB							
Calcium (Ca)			<0.5		mg/L		2.5	31-AUG-05
Iron (Fe)			<0.005		mg/L		0.025	31-AUG-05
Magnesium (Mg)			<0.1		mg/L		0.5	31-AUG-05
Manganese (Mn)			<0.001		mg/L		0.005	31-AUG-05
Potassium (K)			<0.1		mg/L		0.5	31-AUG-05
Sodium (Na)			<1		mg/L		5	31-AUG-05
N2N3-ED		<u>Water</u>						
Batch	R317948							
WG342644-5	DUP	L309849-5						
Nitrate+Nitrite-N		3.2	3.3		mg/L	2.0	5.3	26-AUG-05
WG342644-7	DUP	L310269-1						
Nitrate+Nitrite-N		7.1	6.8		mg/L	4.8	5.3	26-AUG-05
WG342644-3	LCS							
Nitrate+Nitrite-N			98		%		88-105	26-AUG-05
WG342644-2	MB							
Nitrate+Nitrite-N			<0.1		mg/L		0.1	26-AUG-05
WG342644-4	MS	L309844-5						
Nitrate+Nitrite-N			93		%		85-107	26-AUG-05
WG342644-6	MS	L310058-3						
Nitrate+Nitrite-N			101		%		85-107	26-AUG-05
WG342644-8	MS	L309982-8						
Nitrate+Nitrite-N			100		%		85-107	26-AUG-05
NO2-ED		<u>Water</u>						
Batch	R317948							
WG342644-5	DUP	L309849-5						
Nitrite-N		<0.05	<0.05	RPD-NA	mg/L	N/A	5	26-AUG-05
WG342644-7	DUP	L310269-1						
Nitrite-N		0.06	0.06	J	mg/L	0.00	0.15	26-AUG-05
WG342644-3	LCS							
Nitrite-N			97		%		93-107	26-AUG-05
WG342644-2	MB							
Nitrite-N			<0.05		mg/L		0.05	26-AUG-05
WG342644-4	MS	L309844-5						
Nitrite-N			95		%		90-106	26-AUG-05
WG342644-6	MS	L310058-3						
Nitrite-N			92		%		90-106	26-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>NO2-ED</u>		<u>Water</u>						
Batch	R317948							
WG342644-8	MS	L309982-8						
Nitrite-N			94		%		90-106	26-AUG-05
<u>OCSCREEN-ED</u>		<u>Water</u>						
Batch	R322289							
WG346369-1	LCS							
p,p'-DDD			90		%		36-142	06-SEP-05
p,p'-DDE			94		%		31-130	06-SEP-05
p,p'-DDT			87		%		10-122	06-SEP-05
Aldrin			94		%		37-133	06-SEP-05
alpha-BHC			100		%		45-134	06-SEP-05
cis-Chlordane			97		%		46-140	06-SEP-05
beta-BHC			106		%		49-129	06-SEP-05
Dieldrin			97		%		22-158	06-SEP-05
Endosulfan I			97		%		33-109	06-SEP-05
Endosulfan II			94		%		42-142	06-SEP-05
Endrin			100		%		40-155	06-SEP-05
gamma-BHC (Lindane)			119		%		47-129	06-SEP-05
trans-Chlordane			97		%		47-136	06-SEP-05
Heptachlor			135	H	%		37-129	06-SEP-05
Methoxychlor			84		%		16-156	06-SEP-05
Mirex			94		%		29-148	06-SEP-05
Nonachlor			100		%		25-117	06-SEP-05
Oxychlordane			100		%		32-120	06-SEP-05
Quintozine (PCNB)			97		%		19-111	06-SEP-05
WG346369-3	MB							
p,p'-DDD			<0.0001		mg/L		0.0001	06-SEP-05
p,p'-DDE			<0.0001		mg/L		0.0001	06-SEP-05
p,p'-DDT			<0.0001		mg/L		0.0001	06-SEP-05
Aldrin			<0.0001		mg/L		0.0001	06-SEP-05
alpha-BHC			<0.0001		mg/L		0.0001	06-SEP-05
cis-Chlordane			<0.0001		mg/L		0.0001	06-SEP-05
beta-BHC			<0.0001		mg/L		0.0001	06-SEP-05
Dieldrin			<0.0001		mg/L		0.0001	06-SEP-05
Endosulfan I			<0.0001		mg/L		0.0001	06-SEP-05
Endosulfan II			<0.0001		mg/L		0.0001	06-SEP-05
Endrin			<0.0001		mg/L		0.0001	06-SEP-05
gamma-BHC (Lindane)			<0.0001		mg/L		0.0001	06-SEP-05
trans-Chlordane			<0.0001		mg/L		0.0001	06-SEP-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>OCSCREEN-ED</u>		<u>Water</u>						
Batch	R322289							
WG346369-3	MB							
Heptachlor			<0.0001		mg/L		0.0001	06-SEP-05
Methoxychlor			<0.0002		mg/L		0.0002	06-SEP-05
Mirex			<0.0001		mg/L		0.0001	06-SEP-05
Nonachlor			<0.0001		mg/L		0.0001	06-SEP-05
Oxychlordan			<0.0001		mg/L		0.0001	06-SEP-05
Quintozine (PCNB)			<0.0001		mg/L		0.0001	06-SEP-05
<u>PCB-ED</u>		<u>Water</u>						
Batch	R319444							
WG343601-2	LCS							
Aroclor 1260			73		%		71-110	30-AUG-05
WG343601-1	MB							
Aroclor 1016			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1221			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1232			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1242			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1248			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1254			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1260			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1262			<0.00005		mg/L		0.00005	30-AUG-05
Aroclor 1268			<0.00005		mg/L		0.00005	30-AUG-05
Total PCBs			<0.00005		mg/L		0.00005	30-AUG-05
<u>PH/EC/ALK-ED</u>		<u>Water</u>						
Batch	R318273							
WG343184-4	DUP	L310292-1						
Alkalinity, Total (as CaCO3)		787	784		mg/L	0.34	5	26-AUG-05
Bicarbonate (HCO3)		947	939		mg/L	0.82	20	26-AUG-05
Carbonate (CO3)		6	9	J	mg/L	2	15	26-AUG-05
Conductivity (EC)		1530	1530		uS/cm	0.065	5.5	26-AUG-05
Hydroxide (OH)		<5	<5	RPD-NA	mg/L	N/A	20	26-AUG-05
pH		8.3	8.3	J	pH	0.0	0.1	26-AUG-05
WG343184-5	DUP	L310243-1						
Alkalinity, Total (as CaCO3)		519	520		mg/L	0.064	5	26-AUG-05
Bicarbonate (HCO3)		633	634		mg/L	0.065	20	26-AUG-05
Carbonate (CO3)		<5	<5	RPD-NA	mg/L	N/A	20	26-AUG-05
Conductivity (EC)		1010	1010		uS/cm	0.50	5.5	26-AUG-05
Hydroxide (OH)		<5	<5	RPD-NA	mg/L	N/A	20	26-AUG-05
pH		7.7	7.7	J	pH	0.0	0.1	26-AUG-05
WG343184-1	LCS							

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Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>PH/EC/ALK-ED</u>		<u>Water</u>						
Batch	R318273							
WG343184-1	LCS							
Conductivity (EC)			99		%		96-104	29-AUG-05
WG343184-2	LCS							
pH			7.0		pH		6.9-7.1	26-AUG-05
WG343184-3	LCS							
Alkalinity, Total (as CaCO3)			99		%		93-107	26-AUG-05
<u>ACID-NEUT-CAP-SK</u>		<u>Misc.</u>						
Batch	R319537							
WG344603-1	DUP	L309982-60						
CaCO3 Equivalent		16	18	J	%	2	7.7	31-AUG-05
CaO Equivalent		18	20		%	12	20	31-AUG-05
WG344603-2	IRM	CACO3						
CaCO3 Equivalent			102		%		97-103	31-AUG-05
<u>PCB-PAINT-ED</u>		<u>Misc.</u>						
Batch	R319499							
WG343607-2	LCS							
Aroclor 1260			87		%		73-115	30-AUG-05
WG343607-1	MB							
Aroclor 1016			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1221			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1232			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1242			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1248			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1254			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1260			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1262			<0.3		mg/kg		0.3	30-AUG-05
Aroclor 1268			<0.3		mg/kg		0.3	30-AUG-05
Total PCBs			<0.3		mg/kg		0.3	30-AUG-05
<u>HIS-C1-C60-CL</u>		<u>Product</u>						
Batch	R321964							
WG347879-2	DUP	L309982-22						
WG347879-1	MB							
C1-C60 GC/FID Scan			See attach					07-SEP-05
<u>CD-ED</u>		<u>Soil</u>						
Batch	R349622							
WG381770-2	CRM	SPEX OIL						
Cadmium (Cd)			64	H	%		66-98	23-NOV-05
WG381770-3	DUP	L309982-22						
Cadmium (Cd)		<0.5	<0.5	RPD-NA	mg/kg	N/A	20	23-NOV-05
WG381770-1	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>CD-ED</u>		<u>Soil</u>						
Batch	R349622							
WG381770-1	MB							
Cadmium (Cd)			<0.5		mg/kg		2.5	23-NOV-05
WG381770-4	MS	L309982-22	89		%		79-104	23-NOV-05
Cadmium (Cd)								
<u>CL-SAR-ED</u>		<u>Soil</u>						
Batch	R319324							
WG344195-12	DUP	L309997-1						
Chloride (Cl)		110	110	J	mg/L	0	61	31-AUG-05
WG344195-13	DUP	L310492-21						
Chloride (Cl)		50	40	J	mg/L	10	61	30-AUG-05
WG344195-7	DUP	L309744-12						
Chloride (Cl)		1940	1790		mg/L	8.1	12	31-AUG-05
WG344195-8	DUP	L309747-12						
Chloride (Cl)		450	450		mg/L	0.99	12	31-AUG-05
WG344195-4	IRM	SALINITY SOIL3						
Chloride (Cl)			103		%		80-120	30-AUG-05
WG344195-11	MS	L309658-7						
Chloride (Cl)			106		%		90-112	30-AUG-05
WG344195-14	MS	L310492-21						
Chloride (Cl)			104		%		90-112	30-AUG-05
WG344195-5	MS	L309235-5						
Chloride (Cl)			103		%		90-112	30-AUG-05
WG344195-6	MS	L309982-43						
Chloride (Cl)			110		%		90-112	31-AUG-05
Batch	R319600							
WG344792-11	DUP	L311243-18						
Chloride (Cl)		<20	<20	RPD-NA	mg/L	N/A	12	31-AUG-05
WG344792-12	DUP	L310632-125						
Chloride (Cl)		4900	4780		mg/L	2.4	12	31-AUG-05
WG344792-13	DUP	L311243-10						
Chloride (Cl)		120	120	J	mg/L	0	61	31-AUG-05
WG344792-14	DUP	L310632-104						
Chloride (Cl)		2490	2500		mg/L	0.31	12	31-AUG-05
WG344792-16	DUP	L310632-6						
Chloride (Cl)		1330	1440		mg/L	8.2	12	31-AUG-05
WG344792-5	DUP	L310521-24						
Chloride (Cl)		<20	<20	RPD-NA	mg/L	N/A	12	31-AUG-05
WG344792-8	DUP	L310526-21						
Chloride (Cl)		20	<20	RPD-NA	mg/L	N/A	12	31-AUG-05
WG344792-9	DUP	L309550-44						
Chloride (Cl)		<20	<20	RPD-NA	mg/L	N/A	12	31-AUG-05
WG344792-4	IRM	SALINITY SOIL3						

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Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>CL-SAR-ED</u>		<u>Soil</u>						
Batch	R319600							
WG344792-4	IRM	SALINITY SOIL3						
Chloride (Cl)			101		%		80-120	31-AUG-05
WG344792-10	MS	L309758-2	112	H	%		90-112	31-AUG-05
Chloride (Cl)								
WG344792-15	MS	L310485-30	109		%		90-112	31-AUG-05
Chloride (Cl)								
WG344792-17	MS	L291943-107	92		%		90-112	31-AUG-05
Chloride (Cl)								
WG344792-6	MS	L310521-26	111		%		90-112	31-AUG-05
Chloride (Cl)								
WG344792-7	MS	L310526-19	112	H	%		90-112	31-AUG-05
Chloride (Cl)								
<u>CR-ED</u>		<u>Soil</u>						
Batch	R349622							
WG381770-2	CRM	SPEX OIL						
Chromium (Cr)			71	H	%		73-99	23-NOV-05
WG381770-3	DUP	L309982-22						
Chromium (Cr)		<0.5	<0.5	RPD-NA	mg/kg	N/A	20	23-NOV-05
WG381770-1	MB		<0.5		mg/kg		2.5	23-NOV-05
Chromium (Cr)								
WG381770-4	MS	L309982-22	97		%		89-108	23-NOV-05
Chromium (Cr)								
<u>ETL-BTX,TVH-CCME-ED</u>		<u>Soil</u>						
Batch	R318864							
WG343231-3	DUP	L309982-24						
Benzene		<0.005	<0.005	RPD-NA	mg/kg	N/A	61	28-AUG-05
Ethylbenzene		<0.01	<0.01	RPD-NA	mg/kg	N/A	52	28-AUG-05
Toluene		0.02	0.02	J	mg/kg	0.00	0.027	28-AUG-05
TVH: (C6-C10 / No BTEX Correction)		<5	<5	RPD-NA	mg/kg	N/A	56	28-AUG-05
Xylenes		<0.01	<0.01	RPD-NA	mg/kg	N/A	54	28-AUG-05
WG343652-2	LCS							
Benzene			87		%		45-112	28-AUG-05
Ethylbenzene			80		%		48-112	28-AUG-05
Toluene			88		%		47-115	28-AUG-05
TVH: (C6-C10 / No BTEX Correction)			29	H	%		33-96	28-AUG-05
Xylenes			78		%		50-115	28-AUG-05
WG343652-1	MB							
Benzene			<0.005		mg/kg		0.005	28-AUG-05
Ethylbenzene			<0.01		mg/kg		0.01	28-AUG-05
Toluene			<0.01		mg/kg		0.01	28-AUG-05
TVH: (C6-C10 / No BTEX Correction)			<5		mg/kg		5	28-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ETL-BTX,TVH-CCME-ED		Soil						
Batch	R318864							
WG343652-1	MB							
Xylenes			<0.01		mg/kg		0.01	28-AUG-05
WG343231-1	MS	L309997-3						
Benzene			83		%		40-109	28-AUG-05
Ethylbenzene			77		%		42-109	28-AUG-05
Toluene			86		%		43-112	28-AUG-05
Xylenes			76		%		46-111	28-AUG-05
WG343231-2	MS	L309997-3						
TVH: (C6-C10 / No BTEX Correction)			32		%		26-92	28-AUG-05
Batch	R319012							
WG344101-2	LCS							
Benzene			63		%		45-112	29-AUG-05
Ethylbenzene			63		%		48-112	29-AUG-05
Toluene			67		%		47-115	29-AUG-05
TVH: (C6-C10 / No BTEX Correction)			39		%		33-96	29-AUG-05
Xylenes			65		%		50-115	29-AUG-05
WG344101-1	MB							
Benzene			<0.005		mg/kg		0.005	29-AUG-05
Ethylbenzene			<0.01		mg/kg		0.01	29-AUG-05
Toluene			<0.01		mg/kg		0.01	29-AUG-05
TVH: (C6-C10 / No BTEX Correction)			<5		mg/kg		5	29-AUG-05
Xylenes			<0.01		mg/kg		0.01	29-AUG-05
Batch	R319115							
WG343231-4	DUP	L309982-53						
Benzene		<0.005	<0.005	RPD-NA	mg/kg	N/A	61	29-AUG-05
Ethylbenzene		<0.01	<0.01	RPD-NA	mg/kg	N/A	52	29-AUG-05
Toluene		<0.01	<0.01	RPD-NA	mg/kg	N/A	40	29-AUG-05
TVH: (C6-C10 / No BTEX Correction)		<5	<5	RPD-NA	mg/kg	N/A	56	29-AUG-05
Xylenes		<0.01	<0.01	RPD-NA	mg/kg	N/A	54	29-AUG-05
WG344278-2	LCS							
Benzene			64		%		45-112	29-AUG-05
Ethylbenzene			87		%		48-112	29-AUG-05
Toluene			79		%		47-115	29-AUG-05
TVH: (C6-C10 / No BTEX Correction)			27	H	%		33-96	29-AUG-05
Xylenes			104		%		50-115	29-AUG-05
WG344278-1	MB							
Benzene			<0.005		mg/kg		0.005	29-AUG-05
Ethylbenzene			<0.01		mg/kg		0.01	29-AUG-05
Toluene			<0.01		mg/kg		0.01	29-AUG-05
TVH: (C6-C10 / No BTEX Correction)			<5					

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>ETL-BTX,TVH-CCME-ED</u>		<u>Soil</u>						
Batch	R319115							
WG344278-1	MB							
TVH: (C6-C10 / No BTEX Correction)			<5		mg/kg		5	29-AUG-05
Xylenes			<0.01		mg/kg		0.01	29-AUG-05
Batch	R328669							
WG355390-1	DUP	L324286-3						
Benzene		0.39	0.43		mg/kg	9.7	61	26-SEP-05
Ethylbenzene		0.06	0.06	J	mg/kg	0.01	0.019	26-SEP-05
Toluene		0.05	0.05	J	mg/kg	0.00	0.027	26-SEP-05
TVH: (C6-C10 / No BTEX Correction)		<5	<5	RPD-NA	mg/kg	N/A	56	26-SEP-05
Xylenes		0.47	0.51		mg/kg	7.8	54	26-SEP-05
WG356050-2	LCS							
Benzene			88		%		45-112	26-SEP-05
Ethylbenzene			86		%		48-112	26-SEP-05
Toluene			90		%		47-115	26-SEP-05
TVH: (C6-C10 / No BTEX Correction)			27	H	%		33-96	26-SEP-05
Xylenes			85		%		50-115	26-SEP-05
WG356050-1	MB							
Benzene			<0.005		mg/kg		0.005	26-SEP-05
Ethylbenzene			<0.01		mg/kg		0.01	26-SEP-05
Toluene			<0.01		mg/kg		0.01	26-SEP-05
TVH: (C6-C10 / No BTEX Correction)			<5		mg/kg		5	26-SEP-05
Xylenes			<0.01		mg/kg		0.01	26-SEP-05
<u>ETL-TEH-CCME-ED</u>		<u>Soil</u>						
Batch	R319330							
WG344507-4	DUP	L309982-40						
TEH: (C10-C16)		6	6	J	mg/kg	0	11	29-AUG-05
TEH: (C16-C34)		210	360	G	mg/kg	52	40	29-AUG-05
TEH: (C34-C50)		110	180	H	mg/kg	45	39	29-AUG-05
WG344507-2	LCS							
TEH: (C10-C16)			92		%		62-121	29-AUG-05
TEH: (C16-C34)			92		%		62-121	29-AUG-05
TEH: (C34-C50)			92		%		62-121	29-AUG-05
WG344507-1	MB							
TEH: (C10-C16)			<5		mg/kg		5	29-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	29-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	29-AUG-05
WG344507-5	MB							
TEH: (C10-C16)			<5		mg/kg		5	29-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	29-AUG-05
TEH: (C34-C50)			<5					

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>ETL-TEH-CCME-ED</u>		<u>Soil</u>						
Batch	R319330							
WG344507-5	MB							
TEH: (C34-C50)			<5		mg/kg		5	29-AUG-05
WG344507-7	MB							
TEH: (C10-C16)			<5		mg/kg		5	29-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	29-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	29-AUG-05
WG344507-3	MS	L309982-34						
TEH: (C10-C16)			91		%		50-114	29-AUG-05
TEH: (C16-C34)			91		%		50-114	29-AUG-05
TEH: (C34-C50)			91		%		50-114	29-AUG-05
Batch	R319733							
WG344887-2	DUP	L310646-1						
TEH: (C10-C16)		110	110		mg/kg	0.33	40	30-AUG-05
TEH: (C16-C34)		87	130		mg/kg	37	40	30-AUG-05
TEH: (C34-C50)		8	17	J	mg/kg	8	15	30-AUG-05
WG344887-4	DUP	L309640-1						
TEH: (C10-C16)		<5	<5	RPD-NA	mg/kg	N/A	40	30-AUG-05
TEH: (C16-C34)		90	67		mg/kg	30	40	30-AUG-05
TEH: (C34-C50)		31	21	J	mg/kg	9	15	30-AUG-05
WG344887-7	DUP	L310823-1						
TEH: (C10-C16)		<5	<5	RPD-NA	mg/kg	N/A	40	30-AUG-05
TEH: (C16-C34)		22	37	J,H	mg/kg	15	12	30-AUG-05
TEH: (C34-C50)		<5	<5	RPD-NA	mg/kg	N/A	39	30-AUG-05
WG344887-6	LCS							
TEH: (C10-C16)			104		%		62-121	30-AUG-05
TEH: (C16-C34)			104		%		62-121	30-AUG-05
TEH: (C34-C50)			104		%		62-121	30-AUG-05
WG344887-1	MB							
TEH: (C10-C16)			<5		mg/kg		5	30-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	30-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	30-AUG-05
WG344887-5	MB							
TEH: (C10-C16)			<5		mg/kg		5	30-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	30-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	30-AUG-05
WG344887-3	MS	L310713-2						
TEH: (C10-C16)			63		%		50-114	30-AUG-05
TEH: (C16-C34)			63		%		50-114	30-AUG-05
TEH: (C34-C50)			63		%		50-114	30-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ETL-TEH-CCME-ED		Soil						
Batch	R319838							
WG344725-2	DUP	L309982-53						
TEH: (C10-C16)		<5	<5	RPD-NA	mg/kg	N/A	40	30-AUG-05
TEH: (C16-C34)		7	9	J	mg/kg	2	12	30-AUG-05
TEH: (C34-C50)		<5	8	RPD-NA	mg/kg	N/A	39	30-AUG-05
WG344725-5	DUP	L309982-26						
TEH: (C10-C16)		<5	<5	RPD-NA	mg/kg	N/A	40	30-AUG-05
TEH: (C16-C34)		15	10	J	mg/kg	5	12	30-AUG-05
TEH: (C34-C50)		11	6	J	mg/kg	5	15	30-AUG-05
WG344725-4	LCS							
TEH: (C10-C16)			68		%		62-121	30-AUG-05
TEH: (C16-C34)			68		%		62-121	30-AUG-05
TEH: (C34-C50)			68		%		62-121	30-AUG-05
WG344725-8	LCS							
TEH: (C10-C16)			65		%		62-121	30-AUG-05
TEH: (C16-C34)			65		%		62-121	30-AUG-05
TEH: (C34-C50)			65		%		62-121	30-AUG-05
WG344725-1	MB							
TEH: (C10-C16)			<5		mg/kg		5	30-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	30-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	30-AUG-05
WG344725-3	MB							
TEH: (C10-C16)			<5		mg/kg		5	30-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	30-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	30-AUG-05
WG344725-6	MB							
TEH: (C10-C16)			<5		mg/kg		5	30-AUG-05
TEH: (C16-C34)			<5		mg/kg		5	30-AUG-05
TEH: (C34-C50)			<5		mg/kg		5	30-AUG-05
Batch	R328906							
WG356222-3	DUP	L316499-4						
TEH: (C10-C16)		38	69	J,G	mg/kg	31	11	26-SEP-05
TEH: (C16-C34)		140	220	H	mg/kg	47	40	26-SEP-05
TEH: (C34-C50)		49	58	J	mg/kg	9	15	26-SEP-05
WG356222-5	DUP	L322349-11						
TEH: (C10-C16)		14	19	J	mg/kg	4	11	26-SEP-05
TEH: (C16-C34)		180	250		mg/kg	32	40	26-SEP-05
TEH: (C34-C50)		94	130		mg/kg	35	39	26-SEP-05
WG356222-2	LCS							
TEH: (C10-C16)			91		%		62-121	26-SEP-05
TEH: (C16-C34)			91		%		62-121	26-SEP-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>METAL-CCME-ED</u>		<u>Soil</u>						
Batch	R318881							
WG343828-2	CRM	2709 SOIL						
Nickel (Ni)			105		%		89-111	29-AUG-05
Selenium (Se)			80		%		59-141	29-AUG-05
Vanadium (V)			107		%		73-127	29-AUG-05
Zinc (Zn)			99		%		85-115	29-AUG-05
WG343832-2	CRM	2709 SOIL						
Arsenic (As)			102		%		88-112	29-AUG-05
Barium (Ba)			101		%		83-117	29-AUG-05
Cadmium (Cd)			112		%		78-122	29-AUG-05
Chromium (Cr)			112		%		78-122	29-AUG-05
Cobalt (Co)			109		%		89-111	29-AUG-05
Copper (Cu)			108		%		81-119	29-AUG-05
Lead (Pb)			100		%		80-120	29-AUG-05
Mercury (Hg)			89		%		58-142	29-AUG-05
Nickel (Ni)			108		%		89-111	29-AUG-05
Selenium (Se)			89		%		59-141	29-AUG-05
Vanadium (V)			112		%		73-127	29-AUG-05
Zinc (Zn)			104		%		85-115	29-AUG-05
WG343828-3	DUP	L309982-53						
Antimony (Sb)		<0.2	<0.2	RPD-NA	mg/kg	N/A	31	29-AUG-05
Arsenic (As)		1.2	0.8	J	mg/kg	0.4	0.61	29-AUG-05
Barium (Ba)		31	31	J	mg/kg	0	15	29-AUG-05
Beryllium (Be)		<1	<1	RPD-NA	mg/kg	N/A	24	29-AUG-05
Cadmium (Cd)		<0.5	<0.5	RPD-NA	mg/kg	N/A	18	29-AUG-05
Chromium (Cr)		13.2	12.7		mg/kg	3.6	11	29-AUG-05
Cobalt (Co)		6	6	J	mg/kg	0	3.1	29-AUG-05
Copper (Cu)		16	15	J	mg/kg	1	6.1	29-AUG-05
Lead (Pb)		<5	<5	RPD-NA	mg/kg	N/A	21	29-AUG-05
Mercury (Hg)		<0.05	<0.05	RPD-NA	mg/kg	N/A	35	29-AUG-05
Molybdenum (Mo)		<1	<1	RPD-NA	mg/kg	N/A	18	29-AUG-05
Nickel (Ni)		12	11	J	mg/kg	1	6.1	29-AUG-05
Selenium (Se)		<0.2	<0.2	RPD-NA	mg/kg	N/A	18	29-AUG-05
Silver (Ag)		4	3	J	mg/kg	1	3.1	29-AUG-05
Thallium (Tl)		<1	<1	RPD-NA	mg/kg	N/A	21	29-AUG-05
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	24	29-AUG-05
Uranium (U)		<40	<40	RPD-NA	mg/kg	N/A	10	29-AUG-05
Vanadium (V)		23	23		mg/kg	1.4	8.6	29-AUG-05
Zinc (Zn)		30	30	J	mg/kg	0	31	29-AUG-05
WG343832-3		L309982-68						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
METAL-CCME-ED		Soil						
Batch	R318881							
WG343832-3	DUP	L309982-68						
Antimony (Sb)		<0.2	<0.2	RPD-NA	mg/kg	N/A	31	29-AUG-05
Arsenic (As)		1.9	2.1	J	mg/kg	0.2	0.61	29-AUG-05
Barium (Ba)		59	56		mg/kg	5.8	9.8	29-AUG-05
Beryllium (Be)		<1	<1	RPD-NA	mg/kg	N/A	24	29-AUG-05
Cadmium (Cd)		1.1	1.2	J	mg/kg	0.1	1.5	29-AUG-05
Chromium (Cr)		21.0	21.2		mg/kg	0.89	11	29-AUG-05
Cobalt (Co)		17	18		mg/kg	3.4	10	29-AUG-05
Copper (Cu)		93	89		mg/kg	4.4	10	29-AUG-05
Lead (Pb)		173	198		mg/kg	13	21	29-AUG-05
Mercury (Hg)		<0.05	<0.05	RPD-NA	mg/kg	N/A	35	29-AUG-05
Molybdenum (Mo)		<1	<1	RPD-NA	mg/kg	N/A	18	29-AUG-05
Nickel (Ni)		20	20	J	mg/kg	0	6.1	29-AUG-05
Selenium (Se)		0.3	0.3	J	mg/kg	0.0	0.61	29-AUG-05
Silver (Ag)		9	9	J	mg/kg	1	3.1	29-AUG-05
Thallium (Tl)		<1	<1	RPD-NA	mg/kg	N/A	21	29-AUG-05
Tin (Sn)		<5	<5	RPD-NA	mg/kg	N/A	24	29-AUG-05
Uranium (U)		<40	<40	RPD-NA	mg/kg	N/A	10	29-AUG-05
Vanadium (V)		56	56		mg/kg	0.70	8.6	29-AUG-05
Zinc (Zn)		370	440	H	mg/kg	16	13	29-AUG-05
WG343828-1	MB							
Antimony (Sb)			<0.2		mg/kg		1	29-AUG-05
Arsenic (As)			<0.2		mg/kg		1	29-AUG-05
Barium (Ba)			<5		mg/kg		25	29-AUG-05
Beryllium (Be)			<1		mg/kg		5	29-AUG-05
Cadmium (Cd)			<0.5		mg/kg		2.5	29-AUG-05
Chromium (Cr)			<0.5		mg/kg		2.5	29-AUG-05
Cobalt (Co)			<1		mg/kg		5	29-AUG-05
Copper (Cu)			<2		mg/kg		10	29-AUG-05
Lead (Pb)			<5		mg/kg		25	29-AUG-05
Mercury (Hg)			<0.05		mg/kg		0.25	29-AUG-05
Molybdenum (Mo)			<1		mg/kg		5	29-AUG-05
Nickel (Ni)			<2		mg/kg		10	29-AUG-05
Selenium (Se)			<0.2		mg/kg		1	29-AUG-05
Silver (Ag)			<1		mg/kg		5	29-AUG-05
Thallium (Tl)			<1		mg/kg		5	29-AUG-05
Tin (Sn)			<5		mg/kg		25	29-AUG-05
Uranium (U)			<40		mg/kg		200	29-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
METAL-CCME-ED	Soil							
Batch	R318881							
WG343828-1	MB							
Vanadium (V)			<1		mg/kg		5	29-AUG-05
Zinc (Zn)			<10		mg/kg		50	29-AUG-05
WG343832-1	MB							
Antimony (Sb)			<0.2		mg/kg		1	29-AUG-05
Arsenic (As)			<0.2		mg/kg		1	29-AUG-05
Barium (Ba)			<5		mg/kg		25	29-AUG-05
Beryllium (Be)			<1		mg/kg		5	29-AUG-05
Cadmium (Cd)			<0.5		mg/kg		2.5	29-AUG-05
Chromium (Cr)			<0.5		mg/kg		2.5	29-AUG-05
Cobalt (Co)			<1		mg/kg		5	29-AUG-05
Copper (Cu)			<2		mg/kg		10	29-AUG-05
Lead (Pb)			<5		mg/kg		25	29-AUG-05
Mercury (Hg)			<0.05		mg/kg		0.25	29-AUG-05
Molybdenum (Mo)			<1		mg/kg		5	29-AUG-05
Nickel (Ni)			<2		mg/kg		10	29-AUG-05
Selenium (Se)			<0.2		mg/kg		1	29-AUG-05
Silver (Ag)			1		mg/kg		5	29-AUG-05
Thallium (Tl)			<1		mg/kg		5	29-AUG-05
Tin (Sn)			<5		mg/kg		25	29-AUG-05
Uranium (U)			<40		mg/kg		200	29-AUG-05
Vanadium (V)			<1		mg/kg		5	29-AUG-05
Zinc (Zn)			<10		mg/kg		50	29-AUG-05
WG343828-4	MS	L309982-53						
Antimony (Sb)			100		%		90-113	29-AUG-05
Arsenic (As)			108		%		93-115	29-AUG-05
Barium (Ba)			101		%		85-117	29-AUG-05
Beryllium (Be)			119		%		90-119	29-AUG-05
Cadmium (Cd)			111		%		94-115	29-AUG-05
Chromium (Cr)			110	G	%		83-104	29-AUG-05
Cobalt (Co)			108		%		88-112	29-AUG-05
Copper (Cu)			104		%		87-111	29-AUG-05
Lead (Pb)			113		%		91-116	29-AUG-05
Mercury (Hg)			96		%		83-120	29-AUG-05
Molybdenum (Mo)			105		%		92-114	29-AUG-05
Nickel (Ni)			106		%		86-112	29-AUG-05
Selenium (Se)			116		%		97-121	29-AUG-05
Silver (Ag)			14		%		0-78	29-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
METAL-CCME-ED		Soil						
Batch	R318881							
WG343828-4	MS	L309982-53						
Thallium (Tl)			119	H	%		95-119	29-AUG-05
Tin (Sn)			103		%		93-113	29-AUG-05
Uranium (U)			112		%		94-117	29-AUG-05
Vanadium (V)			108		%		87-112	29-AUG-05
Zinc (Zn)			116		%		87-121	29-AUG-05
WG343832-4	MS	L309982-68						
Antimony (Sb)			102		%		90-113	29-AUG-05
Arsenic (As)			107		%		93-115	29-AUG-05
Barium (Ba)			102		%		85-117	29-AUG-05
Beryllium (Be)			114		%		90-119	29-AUG-05
Cadmium (Cd)			111		%		94-115	29-AUG-05
Chromium (Cr)			105	H	%		83-104	29-AUG-05
Cobalt (Co)			103		%		88-112	29-AUG-05
Copper (Cu)			103		%		87-111	29-AUG-05
Lead (Pb)			86	H	%		91-116	29-AUG-05
Mercury (Hg)			95		%		83-120	29-AUG-05
Molybdenum (Mo)			107		%		92-114	29-AUG-05
Nickel (Ni)			101		%		86-112	29-AUG-05
Selenium (Se)			114		%		97-121	29-AUG-05
Silver (Ag)			16		%		0-78	29-AUG-05
Thallium (Tl)			115		%		95-119	29-AUG-05
Tin (Sn)			104		%		93-113	29-AUG-05
Uranium (U)			108		%		94-117	29-AUG-05
Vanadium (V)			99		%		87-112	29-AUG-05
Zinc (Zn)			49	E	%		87-121	29-AUG-05
Batch	R319418							
WG344197-2	CRM	2709 SOIL						
Arsenic (As)			99		%		88-112	30-AUG-05
Barium (Ba)			102		%		83-117	30-AUG-05
Cadmium (Cd)			99		%		78-122	30-AUG-05
Chromium (Cr)			105		%		78-122	30-AUG-05
Cobalt (Co)			108		%		89-111	30-AUG-05
Copper (Cu)			110		%		81-119	30-AUG-05
Lead (Pb)			97		%		80-120	30-AUG-05
Mercury (Hg)			114		%		58-142	30-AUG-05
Nickel (Ni)			109		%		89-111	30-AUG-05
Selenium (Se)			92		%		59-141	30-AUG-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
METAL-CCME-ED		Soil						
Batch	R319418							
WG344197-2	CRM	2709 SOIL						
Vanadium (V)			104		%		73-127	30-AUG-05
Zinc (Zn)			102		%		85-115	30-AUG-05
WG344197-1	MB							
Antimony (Sb)			<0.2		mg/kg		1	30-AUG-05
Arsenic (As)			<0.2		mg/kg		1	30-AUG-05
Barium (Ba)			<5		mg/kg		25	30-AUG-05
Beryllium (Be)			<1		mg/kg		5	30-AUG-05
Cadmium (Cd)			<0.5		mg/kg		2.5	30-AUG-05
Chromium (Cr)			<0.5		mg/kg		2.5	30-AUG-05
Cobalt (Co)			<1		mg/kg		5	30-AUG-05
Copper (Cu)			<2		mg/kg		10	30-AUG-05
Lead (Pb)			<5		mg/kg		25	30-AUG-05
Mercury (Hg)			<0.05		mg/kg		0.25	30-AUG-05
Molybdenum (Mo)			<1		mg/kg		5	30-AUG-05
Nickel (Ni)			<2		mg/kg		10	30-AUG-05
Selenium (Se)			<0.2		mg/kg		1	30-AUG-05
Silver (Ag)			<1		mg/kg		5	30-AUG-05
Thallium (Tl)			<1		mg/kg		5	30-AUG-05
Tin (Sn)			<5		mg/kg		25	30-AUG-05
Uranium (U)			<40		mg/kg		200	30-AUG-05
Vanadium (V)			<1		mg/kg		5	30-AUG-05
Zinc (Zn)			<10		mg/kg		50	30-AUG-05
OCSCREEN-ED		Soil						
Batch	R321775							
WG343804-2	MB							
p,p'-DDD			<0.005		mg/kg		0.005	01-SEP-05
p,p'-DDE			<0.005		mg/kg		0.005	01-SEP-05
p,p'-DDT			<0.005		mg/kg		0.005	01-SEP-05
Aldrin			<0.005		mg/kg		0.005	01-SEP-05
alpha-BHC			<0.005		mg/kg		0.005	01-SEP-05
cis-Chlordane			<0.005		mg/kg		0.005	01-SEP-05
beta-BHC			<0.005		mg/kg		0.005	01-SEP-05
Dieldrin			<0.005		mg/kg		0.005	01-SEP-05
Endosulfan I			<0.005		mg/kg		0.005	01-SEP-05
Endosulfan II			<0.005		mg/kg		0.005	01-SEP-05
Endrin			<0.005		mg/kg		0.005	01-SEP-05
gamma-BHC (Lindane)			<0.005		mg/kg		0.005	01-SEP-05

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCSCREEN-ED		Soil						
Batch	R321775							
WG343804-2	MB							
trans-Chlordane			<0.005		mg/kg		0.005	01-SEP-05
Heptachlor			<0.005		mg/kg		0.005	01-SEP-05
Methoxychlor			<0.005		mg/kg		0.005	01-SEP-05
Mirex			<0.005		mg/kg		0.005	01-SEP-05
Nonachlor			<0.005		mg/kg		0.005	01-SEP-05
Oxychlordane			<0.005		mg/kg		0.005	01-SEP-05
Quintozine (PCNB)			<0.005		mg/kg		0.005	01-SEP-05
WG343804-3	MS	WG343804-1						
p,p'-DDD			98		%		45-137	01-SEP-05
p,p'-DDE			74		%		43-127	01-SEP-05
p,p'-DDT			74		%		70-130	01-SEP-05
cis-Chlordane			89		%		41-133	01-SEP-05
beta-BHC			125		%		36-162	01-SEP-05
Dieldrin			82		%		44-137	01-SEP-05
Endosulfan I			56	H	%		70-130	01-SEP-05
Endosulfan II			80		%		70-130	01-SEP-05
Endrin			94		%		48-149	01-SEP-05
trans-Chlordane			88		%		48-127	01-SEP-05
Mirex			52	G	%		70-130	01-SEP-05
Nonachlor			88		%		45-128	01-SEP-05
Oxychlordane			111		%		43-146	01-SEP-05
PAH-CCME-ED		Soil						
Batch	R318997							
WG342951-1	MB							
Benzo(a)anthracene			<0.01		mg/kg		0.01	31-AUG-05
Benzo(a)pyrene			<0.01		mg/kg		0.01	31-AUG-05
Benzo(b)fluoranthene			<0.01		mg/kg		0.01	31-AUG-05
Benzo(k)fluoranthene			<0.01		mg/kg		0.01	31-AUG-05
Dibenzo(a,h)anthracene			<0.01		mg/kg		0.01	31-AUG-05
Indeno(1,2,3-cd)pyrene			<0.01		mg/kg		0.01	31-AUG-05
Naphthalene			<0.01		mg/kg		0.01	31-AUG-05
Phenanthrene			<0.01		mg/kg		0.01	31-AUG-05
Pyrene			<0.01		mg/kg		0.01	31-AUG-05
Quinoline			<0.01		mg/kg		0.01	31-AUG-05
PB-ED		Soil						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>PB-ED</u>		<u>Soil</u>						
Batch	R349622							
WG381770-2	CRM	SPEX OIL						
Lead (Pb)			69	H	%		74-106	23-NOV-05
WG381770-3	DUP	L309982-22						
Lead (Pb)		<5	<5	RPD-NA	mg/kg	N/A	20	23-NOV-05
WG381770-1	MB							
Lead (Pb)			<5		mg/kg		25	23-NOV-05
WG381770-4	MS	L309982-22						
Lead (Pb)			95		%		79-113	23-NOV-05
<u>PCB-ED</u>		<u>Soil</u>						
Batch	R319654							
WG343609-1	MB							
Aroclor 1016			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1221			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1232			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1242			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1248			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1254			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1260			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1262			<0.01		mg/kg		0.01	30-AUG-05
Aroclor 1268			<0.01		mg/kg		0.01	30-AUG-05
Total PCBs			<0.05		mg/kg		0.05	30-AUG-05
WG343609-2	MS	L309982-59						
Aroclor 1260			87		%		73-122	30-AUG-05
<u>PREP-MOISTURE-ED</u>		<u>Soil</u>						
Batch	R318233							
WG343243-1	DUP	L310062-14						
% Moisture		18	17		%	1.0	30	26-AUG-05
Batch	R318405							
WG343400-1	DUP	L309982-11						
% Moisture		22	22		%	0.082	30	27-AUG-05
WG343400-2	DUP	L309982-32						
% Moisture		30	36		%	20	30	27-AUG-05
Batch	R334853							
WG363459-1	DUP	L329205-10						
% Moisture		24	24		%	0.42	30	14-OCT-05
WG363459-2	DUP	L329205-20						
% Moisture		13	12		%	1.8	30	14-OCT-05
WG363459-3	DUP	L329162-8						
% Moisture		25	24		%	1.7	30	14-OCT-05
WG363459-4	DUP	L329327-5						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>PREP-MOISTURE-ED</u>		<u>Soil</u>						
Batch	R334853							
WG363459-4	DUP	L329327-5						
% Moisture		25	25		%	1.6	30	14-OCT-05
<u>SAR-CALC-ED</u>		<u>Soil</u>						
Batch	R319201							
WG344289-14	DUP	L309997-1						
Calcium (Ca)		575	590		mg/L	2.6	12	30-AUG-05
Magnesium (Mg)		166	170		mg/L	2.5	11	30-AUG-05
Potassium (K)		9	8	J	mg/L	1	6.1	30-AUG-05
Sodium (Na)		90	91		mg/L	1.6	9.8	30-AUG-05
WG344289-16	DUP	L310521-24						
Calcium (Ca)		134	138		mg/L	3.4	12	30-AUG-05
Magnesium (Mg)		36	37		mg/L	2.9	11	30-AUG-05
Potassium (K)		6	5	J	mg/L	0	6.1	30-AUG-05
Sodium (Na)		16	16	J	mg/L	0	6.1	30-AUG-05
WG344289-18	DUP	L310492-21						
Calcium (Ca)		29	29	J	mg/L	0	15	30-AUG-05
Magnesium (Mg)		4	4	J	mg/L	0	9.2	30-AUG-05
Potassium (K)		14	11	J	mg/L	3	6.1	30-AUG-05
Sodium (Na)		73	66		mg/L	9.6	9.8	30-AUG-05
WG344289-5	DUP	L309744-12						
Calcium (Ca)		273	264		mg/L	3.4	12	30-AUG-05
Magnesium (Mg)		185	176		mg/L	4.6	11	30-AUG-05
Potassium (K)		5	5	J	mg/L	0	6.1	30-AUG-05
Sodium (Na)		1260	1200		mg/L	4.7	9.8	30-AUG-05
WG344289-7	DUP	L309747-12						
Calcium (Ca)		1150	1200		mg/L	4.3	12	30-AUG-05
Magnesium (Mg)		147	155		mg/L	5.1	11	30-AUG-05
Potassium (K)		28	28		mg/L	0.060	10	30-AUG-05
Sodium (Na)		474	486		mg/L	2.5	9.8	30-AUG-05
WG344289-13	IRM	SALINITY SOIL3						
Calcium (Ca)			99		%		80-120	30-AUG-05
Magnesium (Mg)			99		%		80-120	30-AUG-05
Potassium (K)			102		%		81-119	30-AUG-05
Sodium (Na)			99		%		81-119	30-AUG-05
WG344289-4	IRM	SALINITY SOIL3						
Calcium (Ca)			120	H	%		80-120	30-AUG-05
Magnesium (Mg)			113		%		80-120	30-AUG-05
Potassium (K)			95		%		81-119	30-AUG-05
Sodium (Na)			102		%		81-119	30-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-CALC-ED		Soil						
Batch	R319201							
WG344289-15	MS	L309997-1						
Calcium (Ca)			98		%		92-112	30-AUG-05
Magnesium (Mg)			99		%		93-109	30-AUG-05
Potassium (K)			103		%		90-109	30-AUG-05
Sodium (Na)			100		%		91-111	30-AUG-05
WG344289-19	MS	L310492-21						
Calcium (Ca)			102		%		92-112	30-AUG-05
Magnesium (Mg)			101		%		93-109	30-AUG-05
Potassium (K)			99		%		90-109	30-AUG-05
Sodium (Na)			96		%		91-111	30-AUG-05
WG344289-6	MS	L309744-12						
Calcium (Ca)			104		%		92-112	30-AUG-05
Magnesium (Mg)			105		%		93-109	30-AUG-05
Potassium (K)			102		%		90-109	30-AUG-05
Sodium (Na)			104		%		91-111	30-AUG-05
WG344289-8	MS	L309747-12						
Calcium (Ca)			97		%		92-112	30-AUG-05
Magnesium (Mg)			103		%		93-109	30-AUG-05
Potassium (K)			107		%		90-109	30-AUG-05
Sodium (Na)			100		%		91-111	30-AUG-05
Batch	R319746							
WG344946-10	DUP	L299090-23						
Calcium (Ca)		122	122		mg/L	0.38	12	31-AUG-05
Magnesium (Mg)		16	16	J	mg/L	0	9.2	31-AUG-05
Potassium (K)		7	7	J	mg/L	0	6.1	31-AUG-05
Sodium (Na)		36	36		mg/L	0.0068	9.8	31-AUG-05
WG344946-12	DUP	L309550-44						
Calcium (Ca)		42	42	J	mg/L	1	15	31-AUG-05
Magnesium (Mg)		11	11	J	mg/L	0	9.2	31-AUG-05
Potassium (K)		5	5	J	mg/L	0	6.1	31-AUG-05
Sodium (Na)		8	7	J	mg/L	1	6.1	31-AUG-05
WG344946-14	DUP	L310632-125						
Calcium (Ca)		610	606		mg/L	0.65	12	31-AUG-05
Magnesium (Mg)		154	151		mg/L	1.8	11	31-AUG-05
Potassium (K)		13	11	J	mg/L	2	6.1	31-AUG-05
Sodium (Na)		2130	2130		mg/L	0.10	9.8	31-AUG-05
WG344946-16	DUP	L311243-18						
Calcium (Ca)		542	532		mg/L	1.9	12	31-AUG-05
Magnesium (Mg)		184	179		mg/L	2.5	11	31-AUG-05
Potassium (K)		17	18	J		1	6.1	

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-CALC-ED		Soil						
Batch	R319746							
WG344946-16	DUP	L311243-18						
Potassium (K)		17	18	J	mg/L	1	6.1	31-AUG-05
Sodium (Na)		64	65		mg/L	1.6	9.8	31-AUG-05
WG344946-18	DUP	L310632-104						
Calcium (Ca)		391	405		mg/L	3.5	12	31-AUG-05
Magnesium (Mg)		94	96		mg/L	2.8	11	31-AUG-05
Potassium (K)		11	11	J	mg/L	0	6.1	31-AUG-05
Sodium (Na)		856	848		mg/L	0.95	9.8	31-AUG-05
WG344946-28	DUP	L310632-6						
Calcium (Ca)		125	151	G	mg/L	19	12	31-AUG-05
Magnesium (Mg)		31	38	G	mg/L	20	11	31-AUG-05
Potassium (K)		8	8	J	mg/L	0	6.1	31-AUG-05
Sodium (Na)		646	683		mg/L	5.6	9.8	31-AUG-05
WG344946-30	DUP	L311243-10						
Calcium (Ca)		307	306		mg/L	0.33	12	31-AUG-05
Magnesium (Mg)		58	58		mg/L	0.19	11	31-AUG-05
Potassium (K)		20	21		mg/L	1.1	10	31-AUG-05
Sodium (Na)		35	31	G	mg/L	13	9.8	31-AUG-05
WG344946-8	DUP	L310526-21						
Calcium (Ca)		64	62		mg/L	3.5	12	31-AUG-05
Magnesium (Mg)		18	17	J	mg/L	1	9.2	31-AUG-05
Potassium (K)		21	20		mg/L	1.4	10	31-AUG-05
Sodium (Na)		18	18	J	mg/L	1	6.1	31-AUG-05
WG344946-4	IRM	SALINITY SOIL3						
Calcium (Ca)			92		%		80-120	31-AUG-05
Magnesium (Mg)			89		%		80-120	31-AUG-05
Potassium (K)			108		%		81-119	31-AUG-05
Sodium (Na)			97		%		81-119	31-AUG-05
WG344946-5	IRM	SALINITY SOIL3						
Calcium (Ca)			95		%		80-120	31-AUG-05
Magnesium (Mg)			92		%		80-120	31-AUG-05
Potassium (K)			112		%		81-119	31-AUG-05
Sodium (Na)			97		%		81-119	31-AUG-05
WG344946-11	MS	L299090-23						
Calcium (Ca)			99		%		92-112	31-AUG-05
Magnesium (Mg)			103		%		93-109	31-AUG-05
Potassium (K)			97		%		90-109	31-AUG-05
Sodium (Na)			99		%		91-111	31-AUG-05
WG344946-13	MS	L309550-44						
Calcium (Ca)			101		%		92-112	31-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>SAR-CALC-ED</u>		<u>Soil</u>						
Batch	R319746							
WG344946-13 MS		L309550-44						
Magnesium (Mg)			101		%		93-109	31-AUG-05
Potassium (K)			99		%		90-109	31-AUG-05
Sodium (Na)			98		%		91-111	31-AUG-05
WG344946-15 MS		L310632-125						
Calcium (Ca)			104		%		92-112	31-AUG-05
Magnesium (Mg)			106		%		93-109	31-AUG-05
Potassium (K)			98		%		90-109	31-AUG-05
Sodium (Na)			102		%		91-111	31-AUG-05
WG344946-17 MS		L311243-18						
Calcium (Ca)			100		%		92-112	31-AUG-05
Magnesium (Mg)			99		%		93-109	31-AUG-05
Potassium (K)			98		%		90-109	31-AUG-05
Sodium (Na)			99		%		91-111	31-AUG-05
WG344946-19 MS		L310632-104						
Calcium (Ca)			100		%		92-112	31-AUG-05
Magnesium (Mg)			102		%		93-109	31-AUG-05
Potassium (K)			100		%		90-109	31-AUG-05
Sodium (Na)			103		%		91-111	31-AUG-05
WG344946-29 MS		L310632-6						
Calcium (Ca)			100		%		92-112	31-AUG-05
Magnesium (Mg)			100		%		93-109	31-AUG-05
Potassium (K)			97		%		90-109	31-AUG-05
Sodium (Na)			100		%		91-111	31-AUG-05
WG344946-31 MS		L311243-10						
Calcium (Ca)			97		%		92-112	31-AUG-05
Magnesium (Mg)			99		%		93-109	31-AUG-05
Potassium (K)			100		%		90-109	31-AUG-05
Sodium (Na)			97		%		91-111	31-AUG-05
WG344946-9 MS		L310526-21						
Calcium (Ca)			101		%		92-112	31-AUG-05
Magnesium (Mg)			102		%		93-109	31-AUG-05
Potassium (K)			97		%		90-109	31-AUG-05
Sodium (Na)			98		%		91-111	31-AUG-05
<u>SAT/PH/EC-ED</u>		<u>Soil</u>						
Batch	R318921							
WG343709-2 DUP		L309747-12						
% Saturation		93.1	93.5		%	0.44	20	29-AUG-05
Conductivity Sat. Paste		5.60	5.67		dS m-1	1.2	5.5	29-AUG-05
				J		0.1	0.2	

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAT/PH/EC-ED		Soil						
Batch	R318921							
WG343709-2	DUP	L309747-12						
pH in Saturated Paste		6.8	6.7	J	pH	0.1	0.2	29-AUG-05
WG343709-1	IRM	SALINITY SOIL3						
% Saturation			105		%		80-120	29-AUG-05
Conductivity Sat. Paste			89		%		82-118	29-AUG-05
pH in Saturated Paste			6.4		pH		5.6-7.8	29-AUG-05
WG343709-3	LCS							
pH in Saturated Paste			4.0		pH		3.9-4.1	29-AUG-05
WG343709-4	LCS							
pH in Saturated Paste			7.0		pH		6.9-7.1	29-AUG-05
WG343709-5	LCS							
pH in Saturated Paste			9.9		pH		9.9-10.1	29-AUG-05
WG343709-6	LCS							
Conductivity Sat. Paste			102		%		100-108	29-AUG-05
WG343709-7	LCS							
Conductivity Sat. Paste			97		%		96-104	29-AUG-05
WG343709-8	LCS							
Conductivity Sat. Paste			99		%		93-105	29-AUG-05
Batch	R319256							
WG344087-2	DUP	L309997-1						
% Saturation		55.0	54.5		%	0.92	20	30-AUG-05
Conductivity Sat. Paste		2.47	2.55		dS m-1	3.2	5.5	30-AUG-05
pH in Saturated Paste		7.5	7.5	J	pH	0.0	0.2	30-AUG-05
WG344087-1	IRM	SALINITY SOIL3						
% Saturation			105		%		80-120	30-AUG-05
Conductivity Sat. Paste			99		%		82-118	30-AUG-05
pH in Saturated Paste			6.5		pH		5.6-7.8	30-AUG-05
WG344087-3	LCS							
pH in Saturated Paste			4.1		pH		3.9-4.1	30-AUG-05
WG344087-4	LCS							
pH in Saturated Paste			7.0		pH		6.9-7.1	30-AUG-05
WG344087-5	LCS							
pH in Saturated Paste			10.0		pH		9.9-10.1	30-AUG-05
WG344087-6	LCS							
Conductivity Sat. Paste			106		%		100-108	30-AUG-05
WG344087-7	LCS							
Conductivity Sat. Paste			99		%		96-104	30-AUG-05
WG344087-8	LCS							
Conductivity Sat. Paste			100		%		93-105	30-AUG-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>SAT/PH/EC-ED</u>		<u>Soil</u>						
Batch	R319365							
WG344204-2	DUP	L311243-10						
% Saturation		45.7	45.7		%	0.030	20	30-AUG-05
Conductivity Sat. Paste		1.42	1.40		dS m-1	1.4	5.5	30-AUG-05
pH in Saturated Paste		7.8	7.7	J	pH	0.0	0.2	30-AUG-05
WG344204-1	IRM	SALINITY SOIL3						
% Saturation			105		%		80-120	30-AUG-05
Conductivity Sat. Paste			99		%		82-118	30-AUG-05
pH in Saturated Paste			6.5		pH		5.6-7.8	30-AUG-05
WG344204-3	LCS							
pH in Saturated Paste			4.1		pH		3.9-4.1	30-AUG-05
WG344204-4	LCS							
pH in Saturated Paste			7.0		pH		6.9-7.1	30-AUG-05
WG344204-5	LCS							
pH in Saturated Paste			10.0		pH		9.9-10.1	30-AUG-05
WG344204-6	LCS							
Conductivity Sat. Paste			106		%		100-108	30-AUG-05
WG344204-7	LCS							
Conductivity Sat. Paste			99		%		96-104	30-AUG-05
WG344204-8	LCS							
Conductivity Sat. Paste			100		%		93-105	30-AUG-05
<u>SO4-SAR-ED</u>		<u>Soil</u>						
Batch	R319201							
WG344289-14	DUP	L309997-1						
Sulphate (SO4)		1790	1840		mg/L	3.2	15	30-AUG-05
WG344289-16	DUP	L310521-24						
Sulphate (SO4)		243	253		mg/L	4.2	15	30-AUG-05
WG344289-18	DUP	L310492-21						
Sulphate (SO4)		141	131		mg/L	6.9	15	30-AUG-05
WG344289-5	DUP	L309744-12						
Sulphate (SO4)		813	784		mg/L	3.7	15	30-AUG-05
WG344289-7	DUP	L309747-12						
Sulphate (SO4)		1240	1270		mg/L	2.3	15	30-AUG-05
WG344289-13	IRM	SALINITY SOIL3						
Sulphate (SO4)			94		%		79-121	30-AUG-05
WG344289-4	IRM	SALINITY SOIL3						
Sulphate (SO4)			94		%		79-121	30-AUG-05
WG344289-15	MS	L309997-1						
Sulphate (SO4)			102		%		83-115	30-AUG-05
WG344289-19	MS	L310492-21						
Sulphate (SO4)			94		%		83-115	30-AUG-05
WG344289-6	MS	L309744-12						
Sulphate (SO4)			105		%		83-115	30-AUG-05

Workorder: L309982

ETL-METAL-TCLP-ED Waste

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>ETL-METAL-TCLP-ED</u>		<u>Waste</u>						
Batch	R347652							
WG379612-2	DUP	L335636-1						
Antimony (Sb)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Arsenic (As)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	17-NOV-05
Barium (Ba)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Beryllium (Be)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Boron (B)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Cadmium (Cd)		<0.05	<0.05	RPD-NA	mg/L	N/A	20	17-NOV-05
Chromium (Cr)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Cobalt (Co)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Copper (Cu)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Iron (Fe)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Lead (Pb)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Mercury (Hg)		<0.01	<0.01	RPD-NA	mg/L	N/A	20	17-NOV-05
Nickel (Ni)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Selenium (Se)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	17-NOV-05
Silver (Ag)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Thallium (Tl)		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-NOV-05
Uranium (U)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	17-NOV-05
Vanadium (V)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Zinc (Zn)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
Zirconium (Zr)		<5	<5	RPD-NA	mg/L	N/A	20	17-NOV-05
WG379612-1	MB							
Antimony (Sb)			<5		mg/L		25	17-NOV-05
Arsenic (As)			<0.2		mg/L		1	17-NOV-05
Barium (Ba)			<5		mg/L		25	17-NOV-05
Beryllium (Be)			<0.5		mg/L		2.5	17-NOV-05
Boron (B)			<5		mg/L		25	17-NOV-05
Cadmium (Cd)			<0.05		mg/L		0.25	17-NOV-05
Chromium (Cr)			<0.5		mg/L		2.5	17-NOV-05
Cobalt (Co)			<5		mg/L		25	17-NOV-05
Copper (Cu)			<5		mg/L		25	17-NOV-05
Iron (Fe)			<5		mg/L		25	17-NOV-05
Lead (Pb)			<0.5		mg/L		2.5	17-NOV-05
Mercury (Hg)			<0.01		mg/L		0.05	17-NOV-05
Nickel (Ni)			<0.5		mg/L		2.5	17-NOV-05
Selenium (Se)			<0.2		mg/L		1	17-NOV-05
Silver (Ag)			<0.5		mg/L		2.5	17-NOV-05
Thallium (Tl)			<0.5		mg/L		2.5	17-NOV-05

Enviro-Test Quality Control Report

Workorder: L309982

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<u>ETL-METAL-TCLP-ED</u>		<u>Waste</u>						
Batch	R347652							
WG379612-1	MB							
Uranium (U)			<0.2		mg/L		1	17-NOV-05
Vanadium (V)			<5		mg/L		25	17-NOV-05
Zinc (Zn)			<5		mg/L		25	17-NOV-05
Zirconium (Zr)			<5		mg/L		25	17-NOV-05
<u>PB-TCLP-ED</u>		<u>Waste</u>						
Batch	R327849							
WG354633-1	MB							
Lead (Pb)-Leachable			<0.5		mg/L		2.5	23-SEP-05
<u>PB-HIGH-ED</u>		<u>Bulk</u>						
Batch	R319768							
WG344155-2	CRM	PAINT CHIPS						
Lead (Pb)			78		%		70-124	30-AUG-05
WG344155-3	DUP	L311009-7						
Lead (Pb)		<10	<10	RPD-NA	mg/kg	N/A	17	30-AUG-05
WG344155-1	MB							
Lead (Pb)			<10		mg/kg		50	30-AUG-05
WG344155-4	MS	L311009-7						
Lead (Pb)			114		%		84-127	30-AUG-05

ENVIRO-TEST QC REPORT

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Workorder # L309982

Legend:

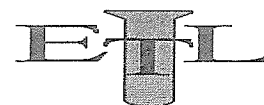
Limit 95% Confidence Interval (Laboratory Warning Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Qualifier:

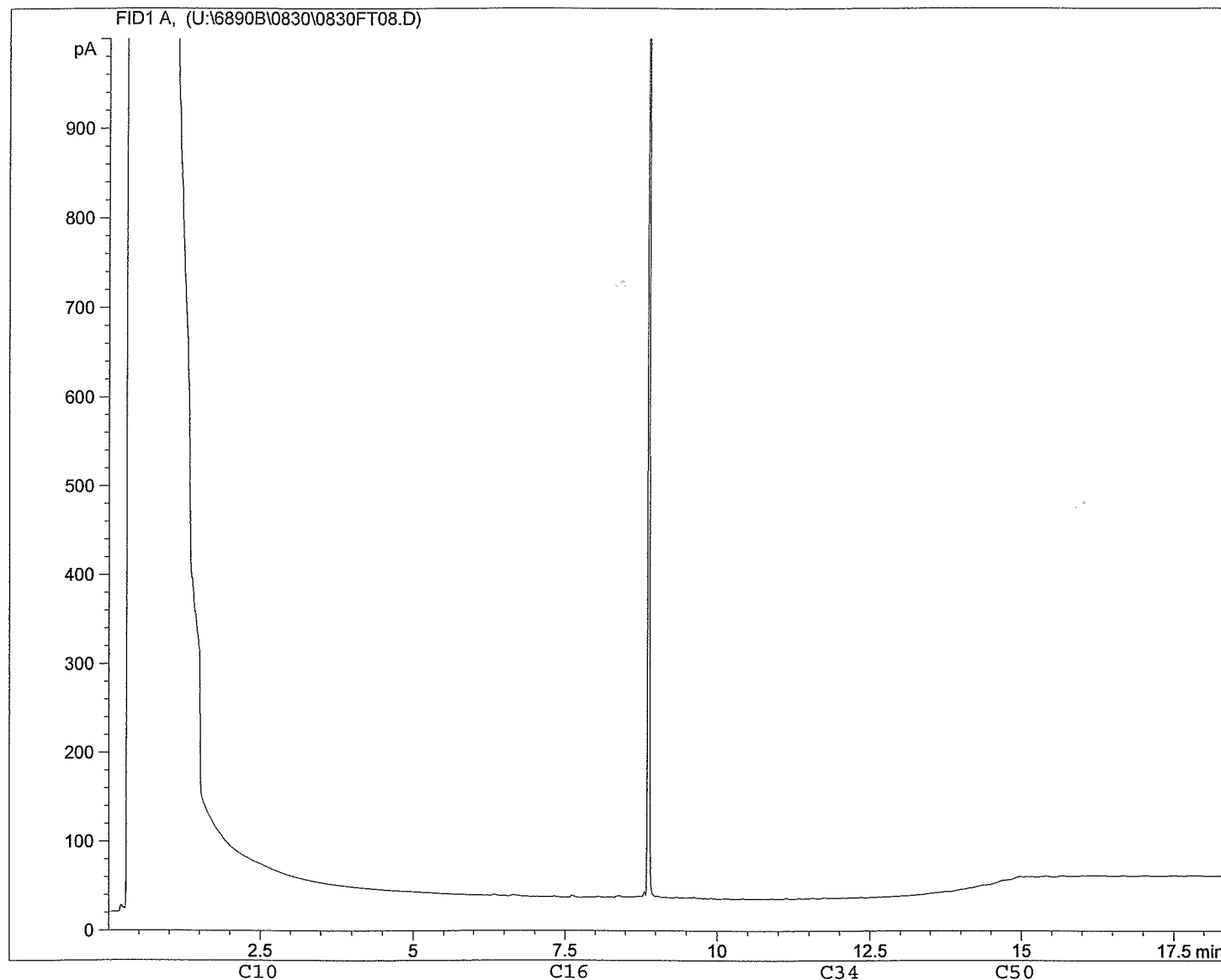
RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
A Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F Silver recovery low, likely due to elevated chloride levels in sample.
G Outlier - No assignable cause for nonconformity has been determined.
H Result falls within the 99% Confidence Interval (Laboratory Control Limits)
J Duplicate results and limit(s) are expressed in terms of absolute difference.
K The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.

Client ID:

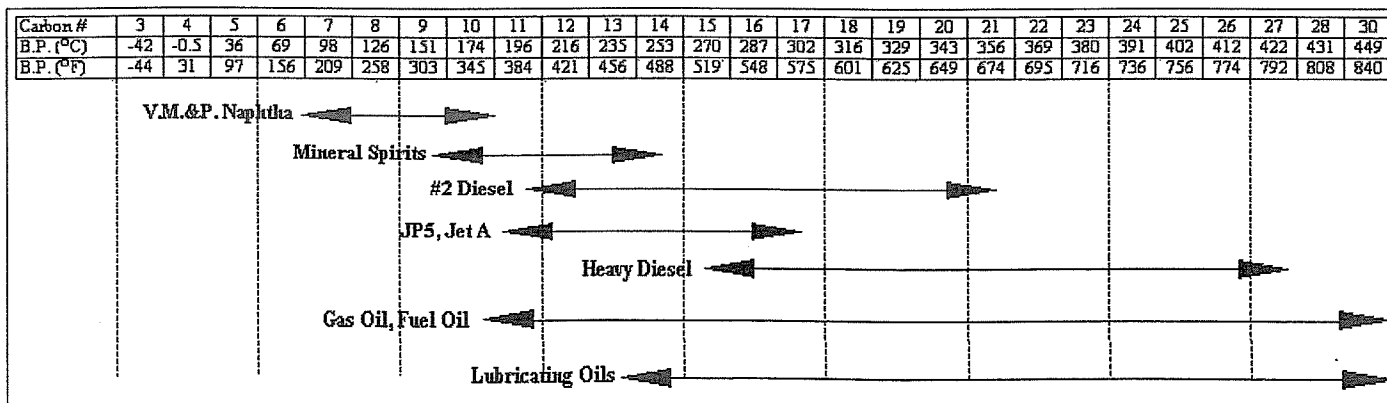
Sample ID: MB 4
Injection Date: 8/30/05 8:39:29 PM
Instrument: 6890



Total Extractable Hydrocarbons

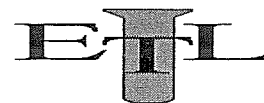


Boiling Point Distribution Range of Petroleum Based Fuel Products

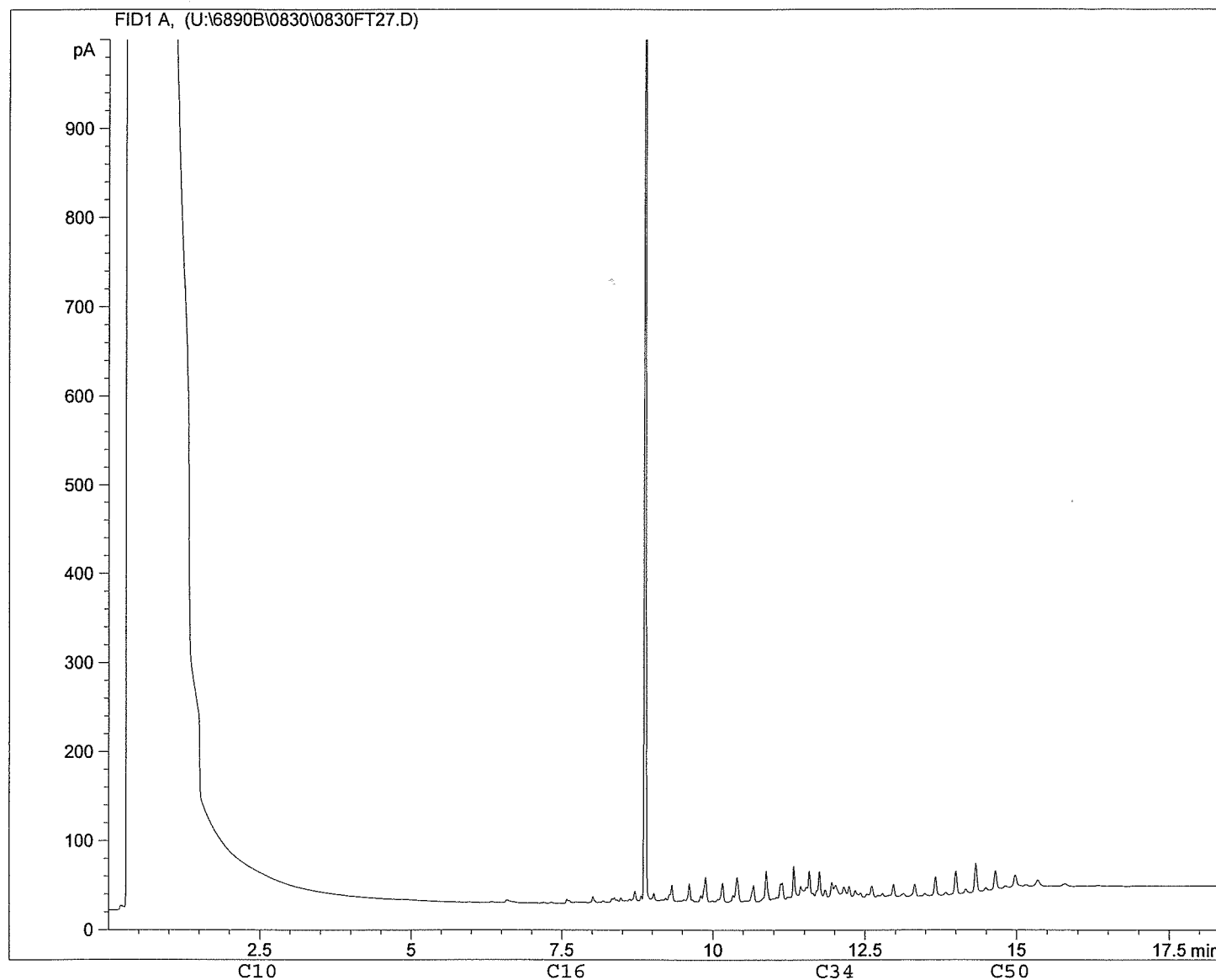


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

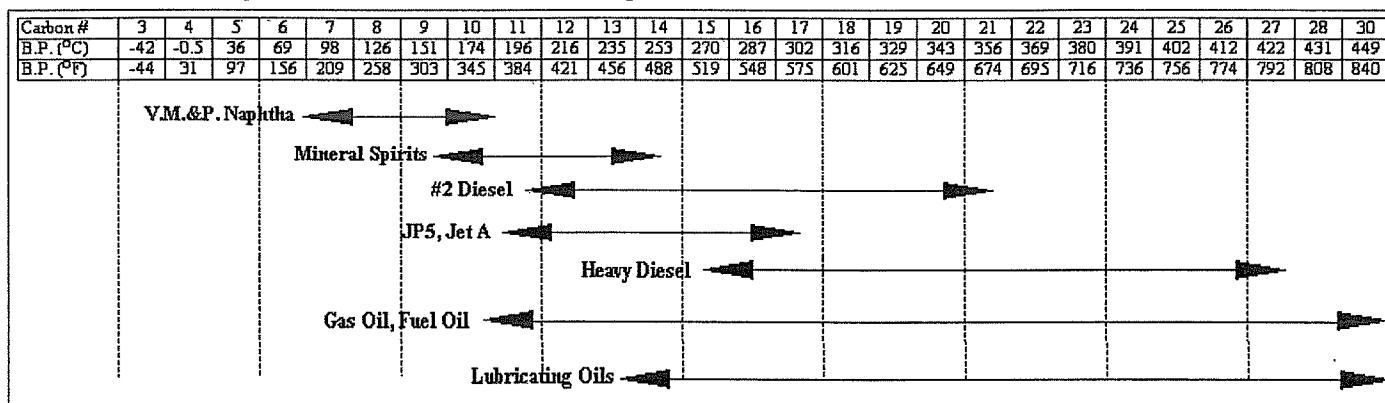
Client ID: ROB LK 01
Sample ID: L309982-10 4
Injection Date: 8/31/05 4:55:58 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

ROB LK 02

Sample ID:

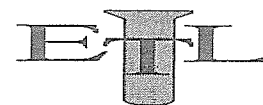
L309982-11 4

Injection Date:

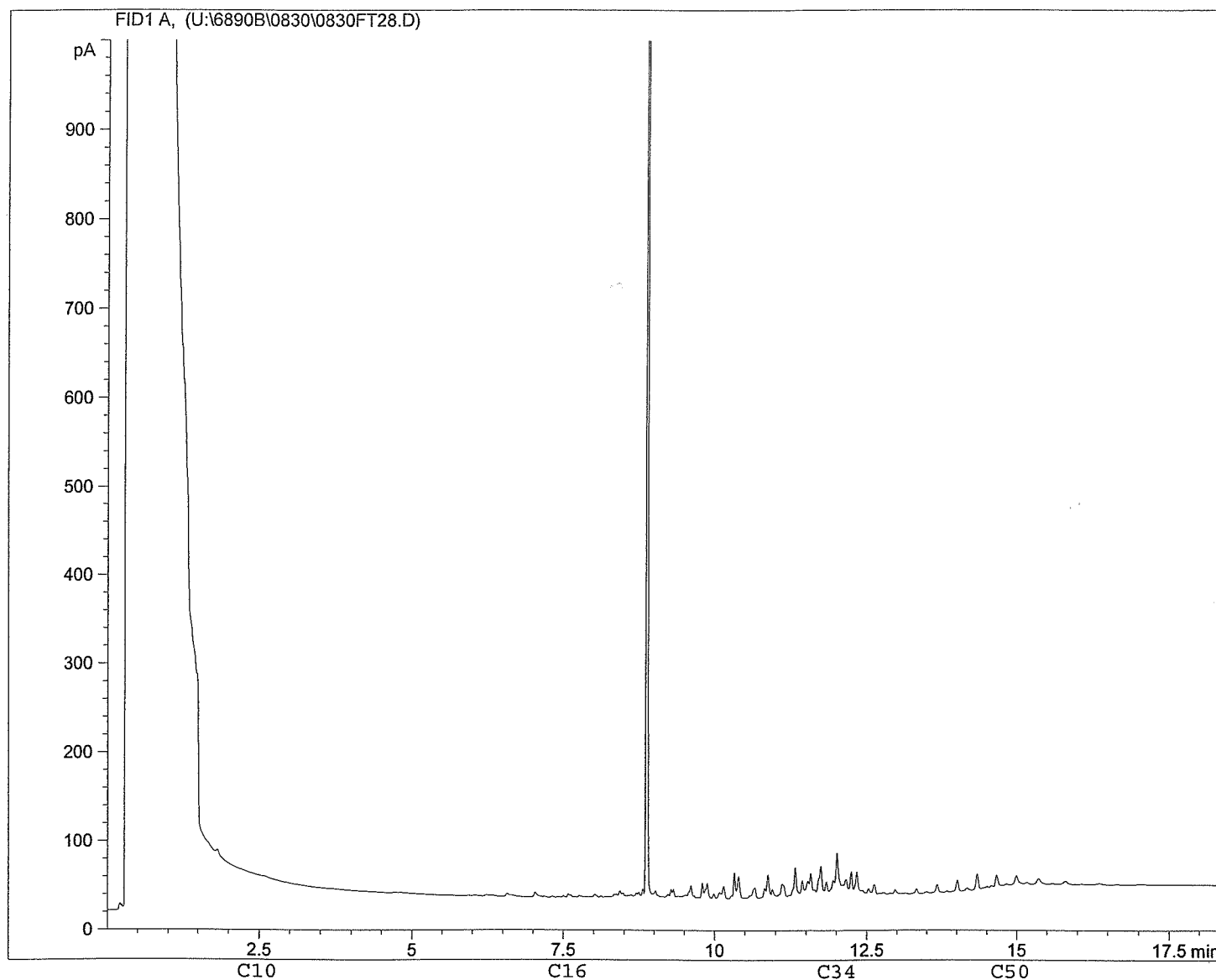
8/31/05 5:22:05 AM

Instrument:

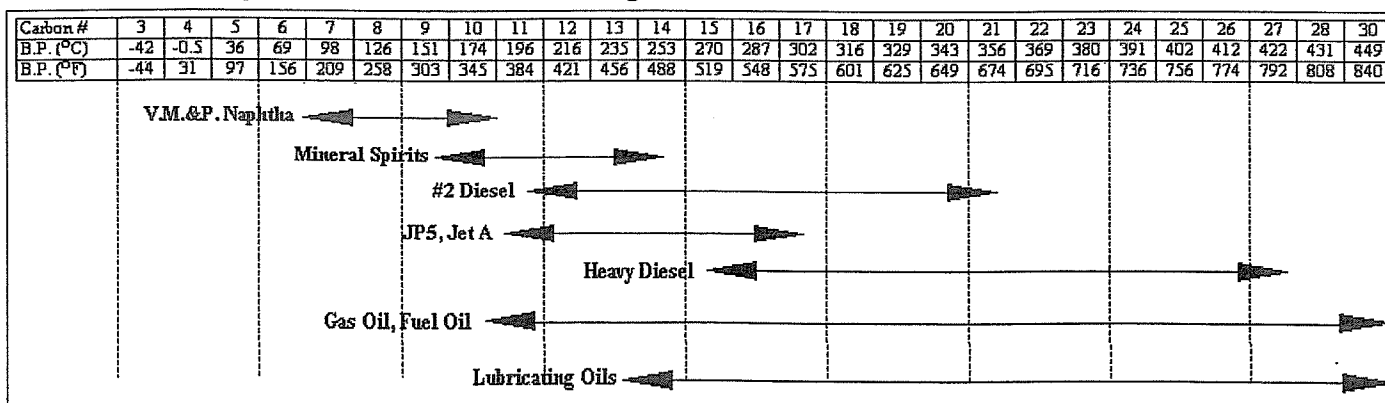
6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products

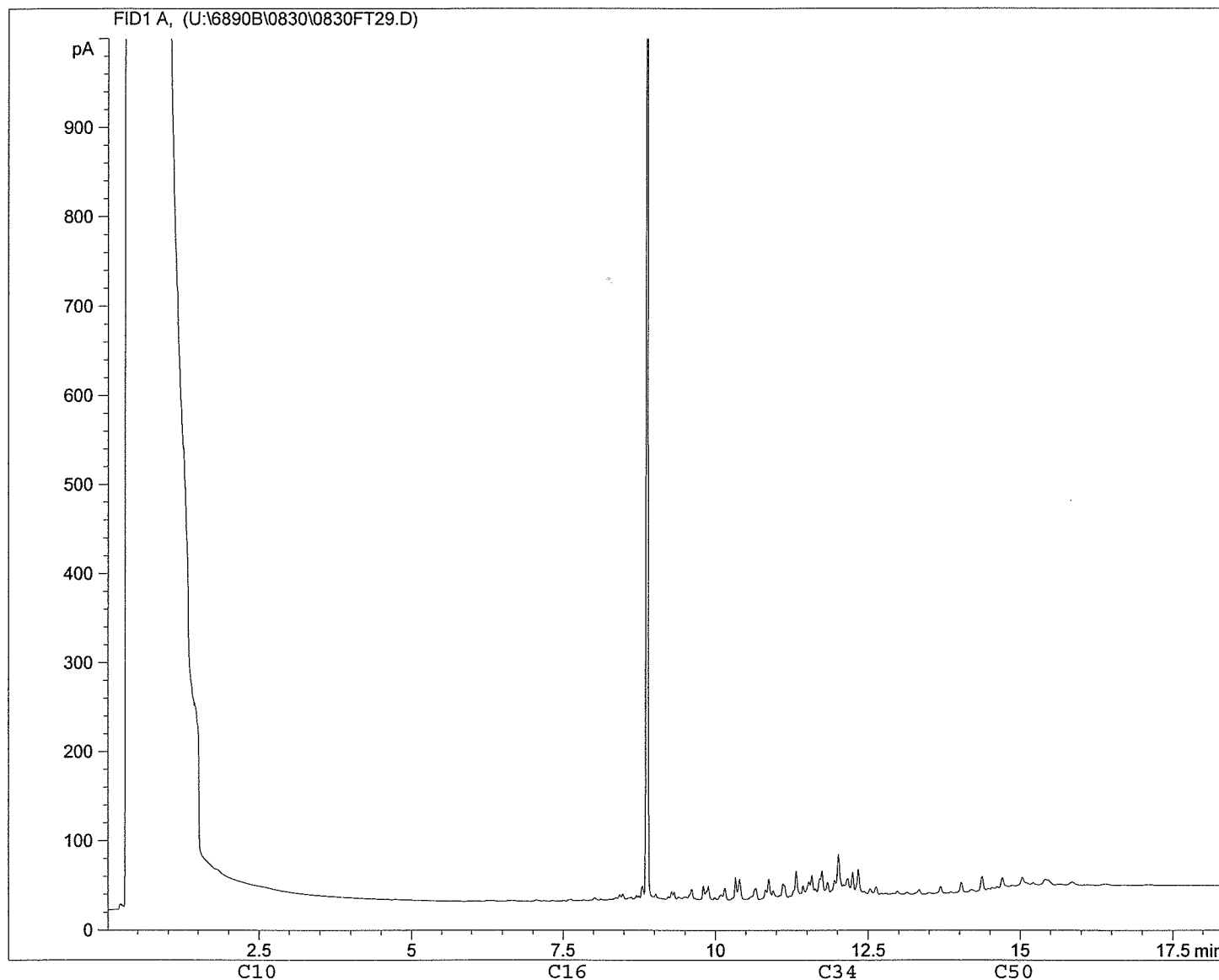


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

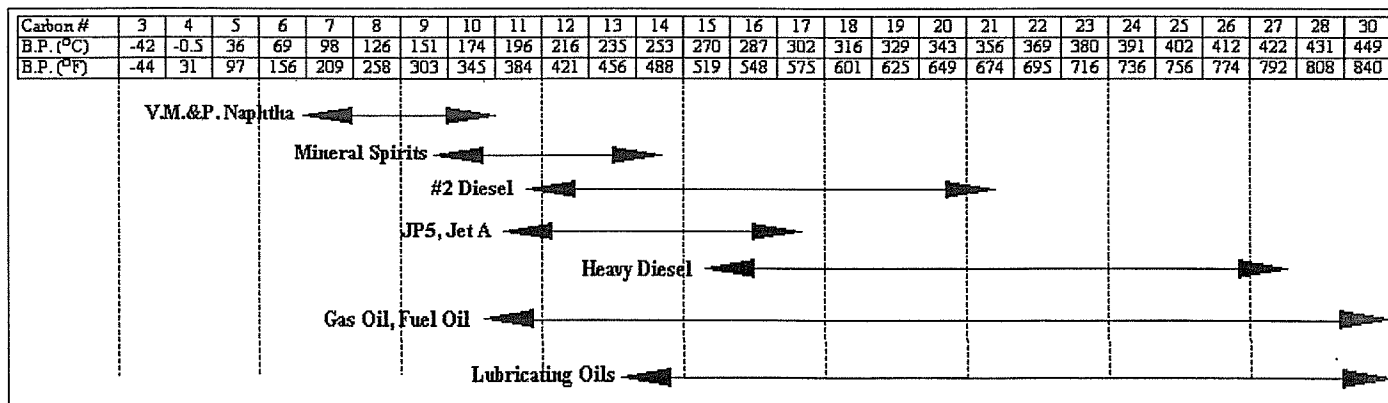
Client ID: ROB LK 03
Sample ID: L309982-12 4
Injection Date: 8/31/05 5:47:59 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

ROB LK MID

Sample ID:

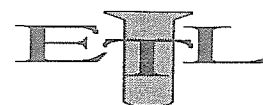
L309982-14 4

Injection Date:

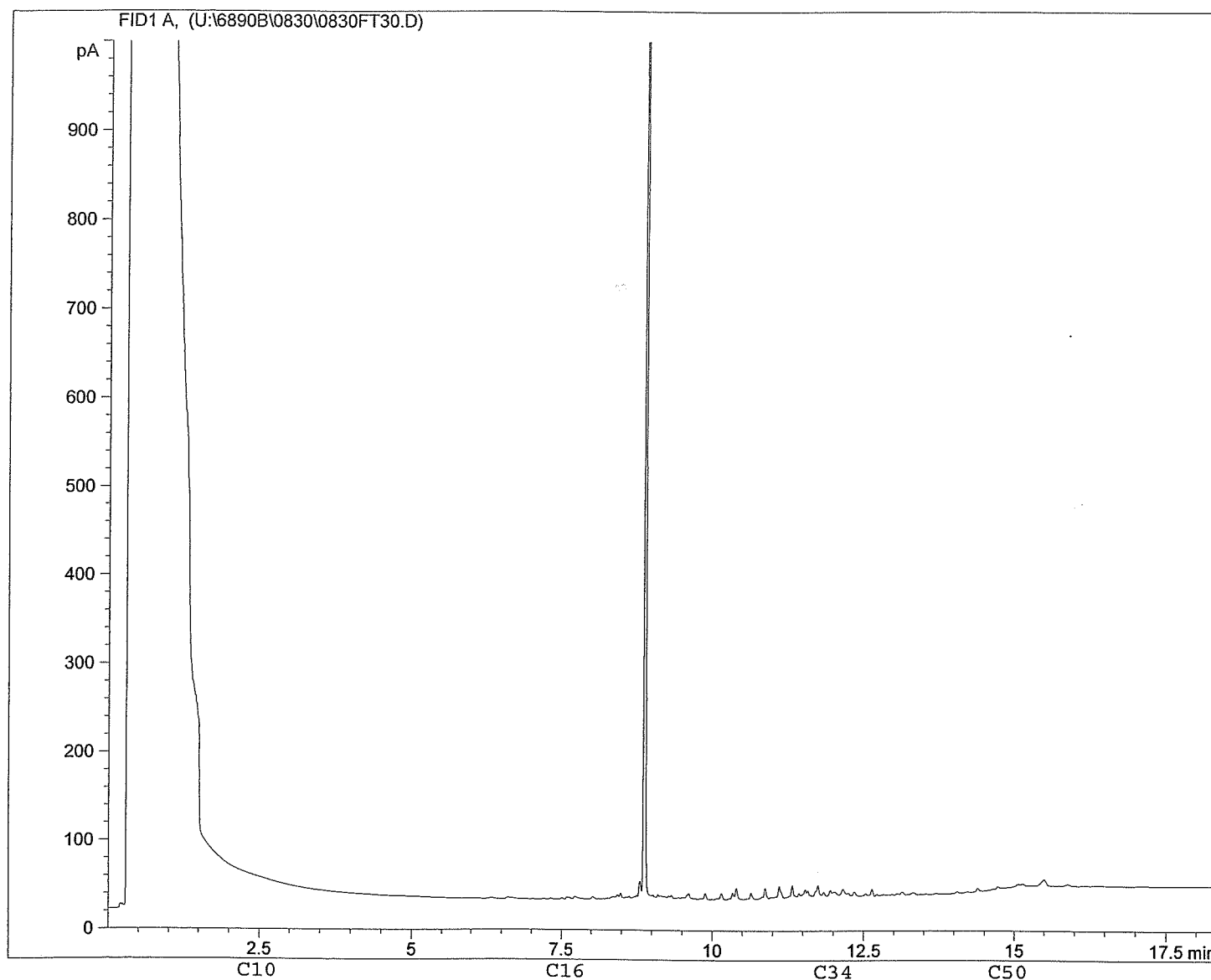
8/31/05 6:13:54 AM

Instrument:

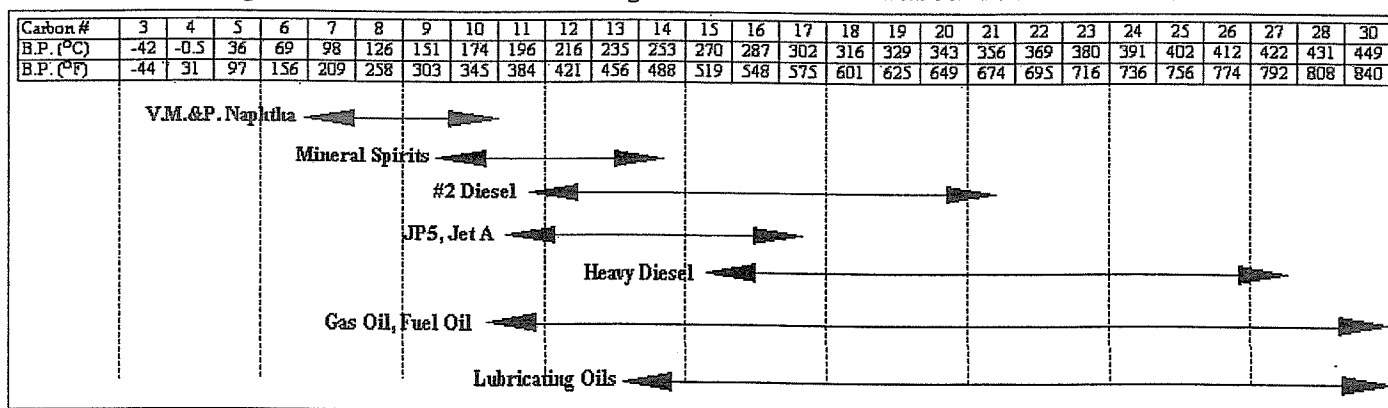
6890



Total Extractable Hydrocarbons

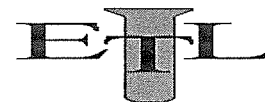


Boiling Point Distribution Range of Petroleum Based Fuel Products

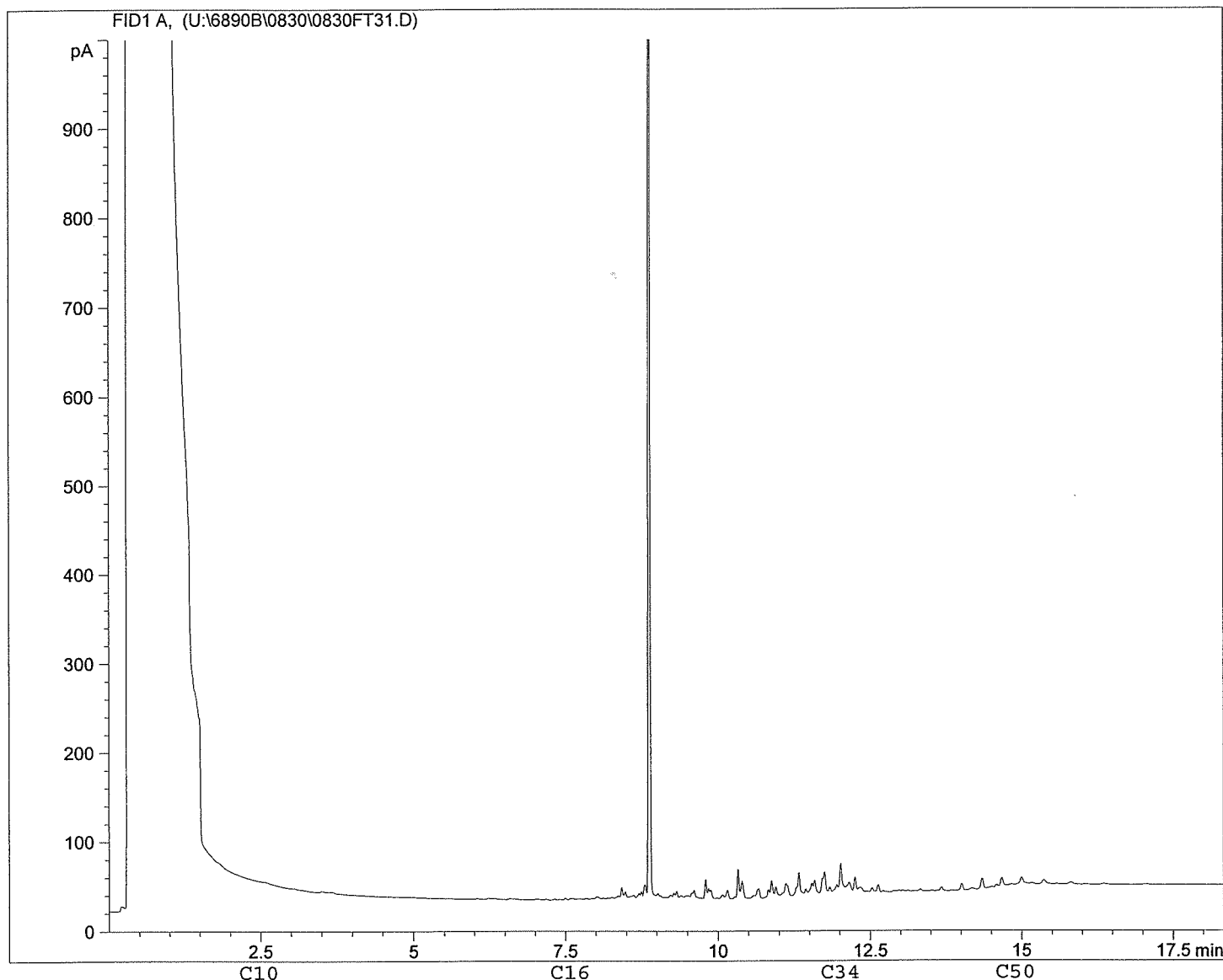


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

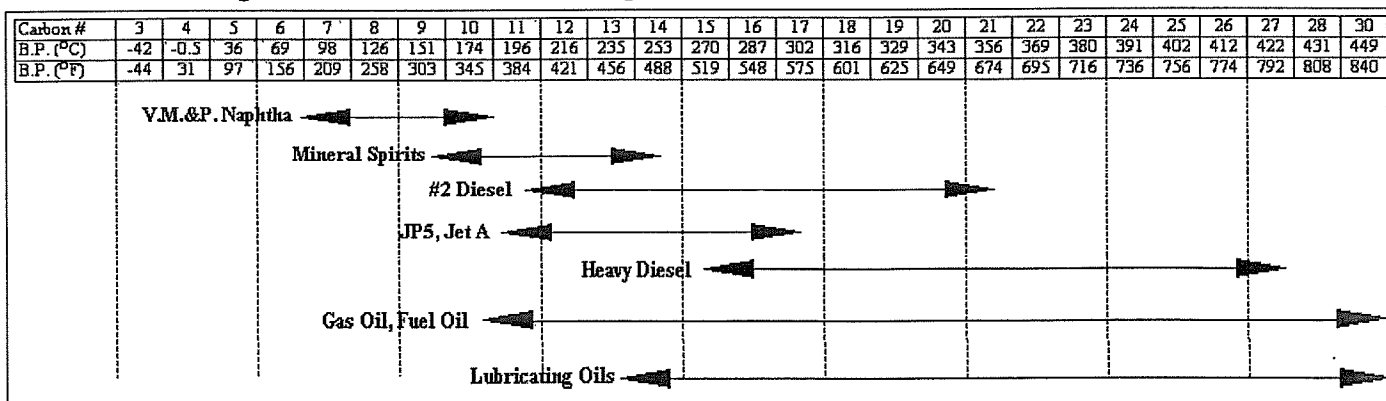
Client ID: ROB LK BKND
Sample ID: L309982-15 4
Injection Date: 8/31/05 6:40:00 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

IDA 02

Sample ID:

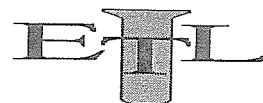
L309982-17 4

Injection Date:

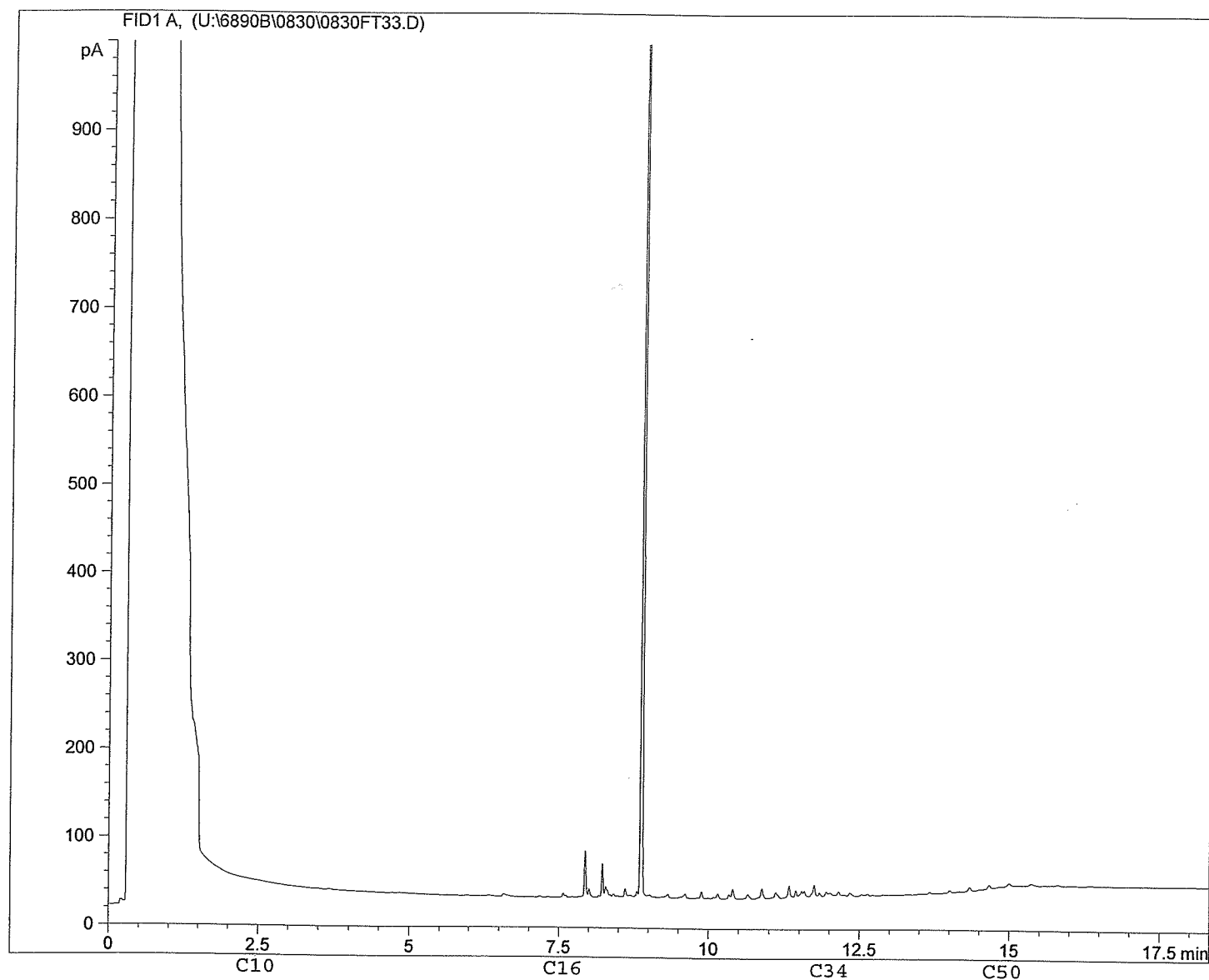
8/31/05 7:31:45 AM

Instrument:

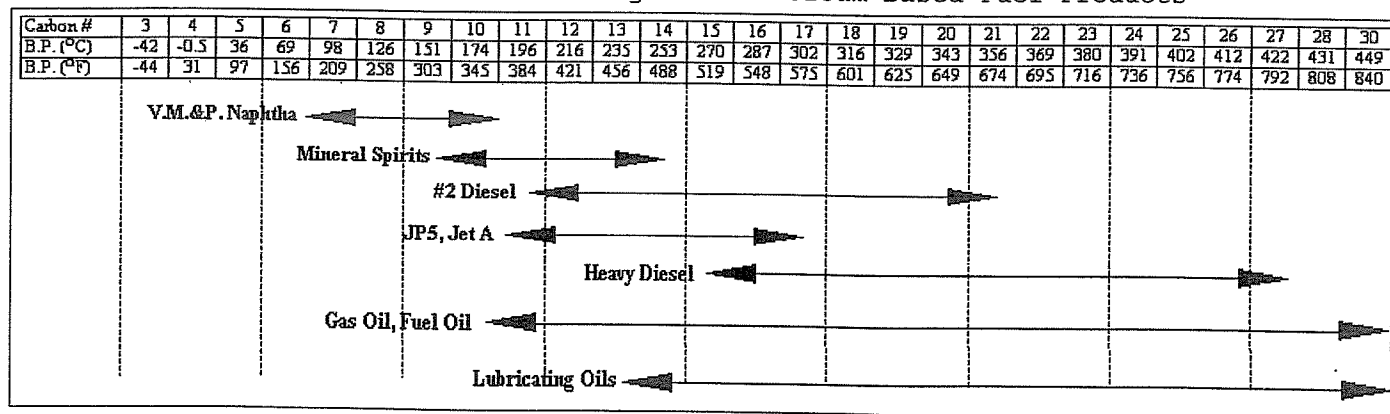
6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



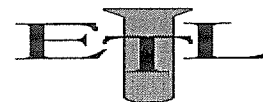
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: IDA 04

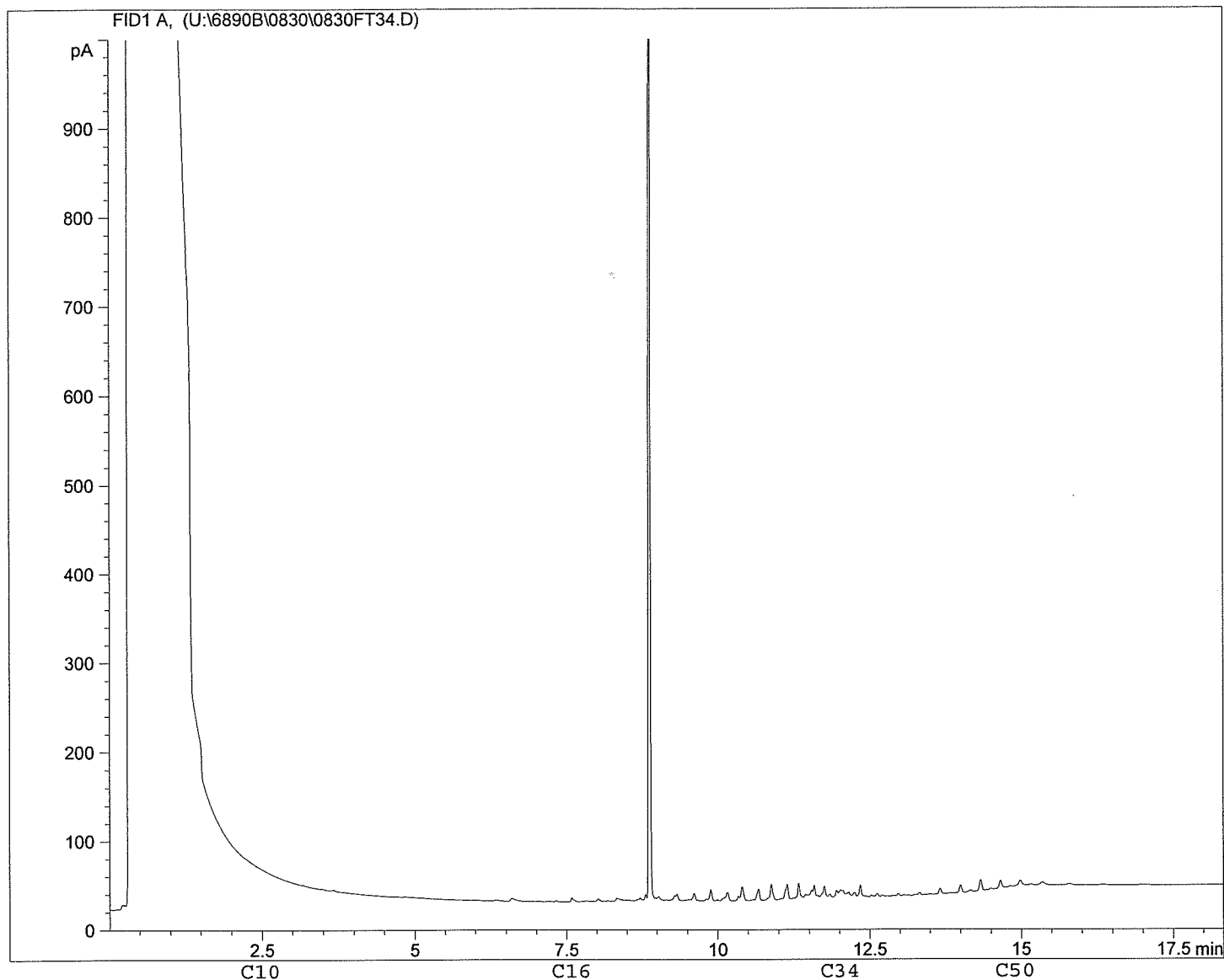
Sample ID: L309982-19 4

Injection Date: 8/31/05 7:57:52 AM

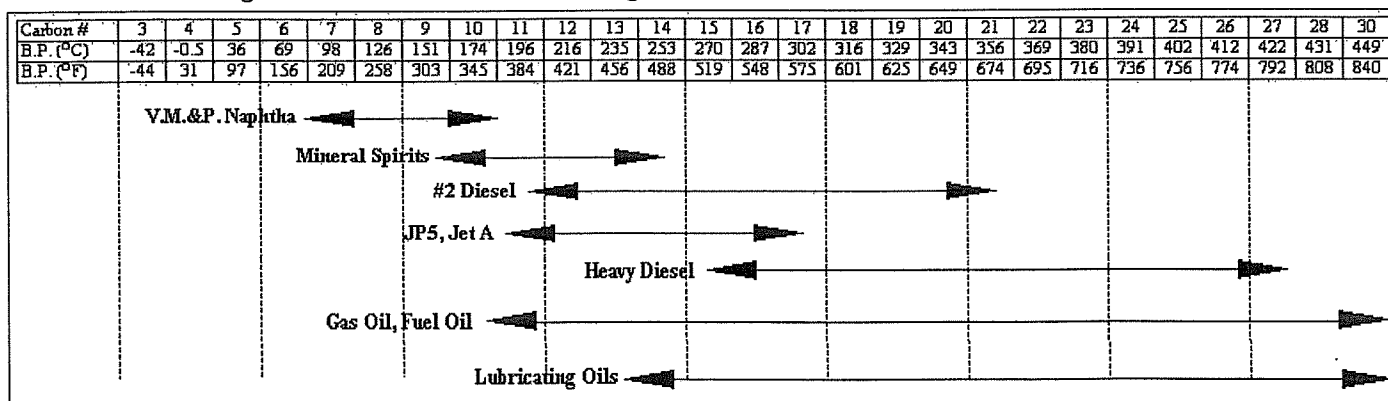
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Duplicate QC

CLIENT SAMPLE ID DUP@L309982-22
ETL SAMPLE ID L309982-22d

Carbon No.	Δ	Carbon No.	Δ	Carbon No.	Δ	Carbon No.	Δ
C1	RPD-NA	C16	0.000	C31	0.000	C46	0.001
C2	RPD-NA	C17	0.001	C32	0.000	C47	0.000
C3	RPD-NA	C18	0.002	C33	0.000	C48	0.000
C4	RPD-NA	C19	0.003	C34	0.000	C49	0.000
C5	RPD-NA	C20	0.002	C35	0.000	C50	0.000
C6	RPD-NA	C21	0.001	C36	0.000	C51	0.000
C7	RPD-NA	C22	0.002	C37	0.000	C52	0.000
C8	RPD-NA	C23	0.001	C38	0.001	C53	0.001
C9	RPD-NA	C24	0.001	C39	0.001	C54	0.001
C10	0.000	C25	0.002	C40	0.001	C55	0.001
C11	0.000	C26	0.001	C41	0.001	C56	0.001
C12	0.000	C27	0.000	C42	0.001	C57	0.001
C13	0.000	C28	0.000	C43	0.001	C58	0.001
C14	0.000	C29	0.000	C44	0.001	C59	0.001
C15	0.000	C30	0.000	C45	0.001	C60	0.001

Total 1.000

Δ absolute difference. Sample A - Sample B

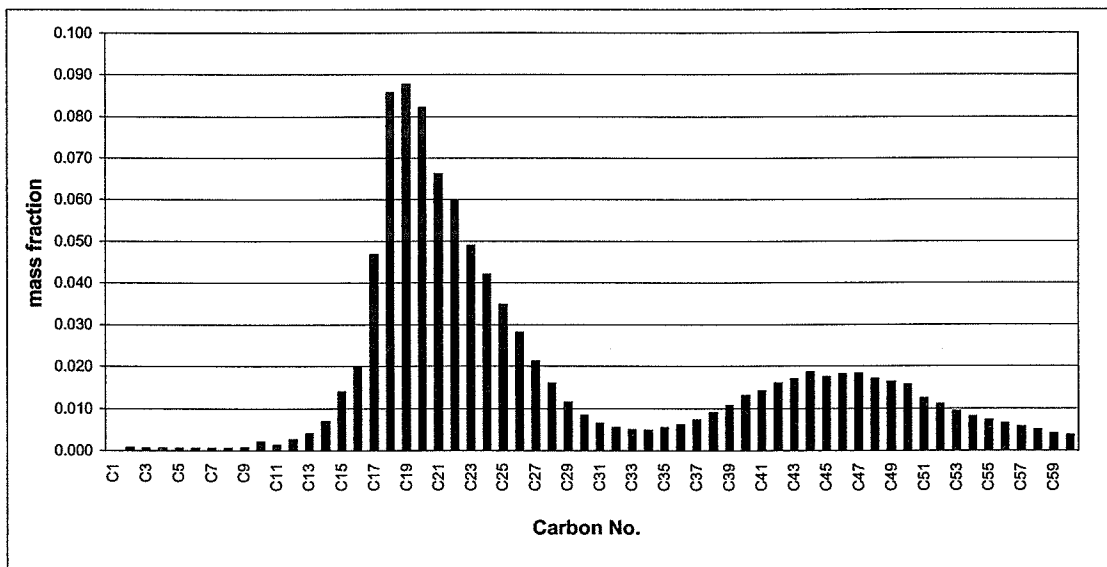
C1-C60 HISTOGRAM

CLIENT SAMPLE ID
ETL SAMPLE ID

ROBERTS BAY ET-01 ROBERTS BAY
L309982-22

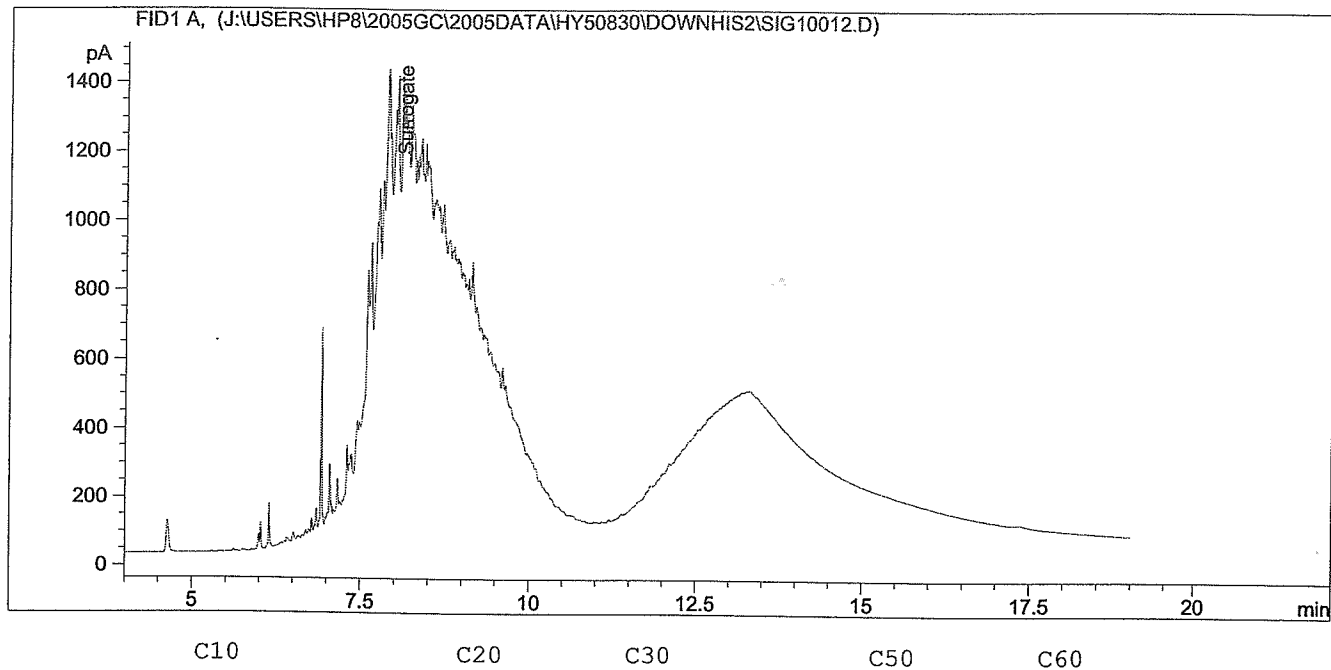
Carbon No.	mass fr.	Carbon No.	mass fr.	Carbon No.	mass fr.	Carbon No.	mass fr.
C1	0.000	C16	0.020	C31	0.006	C46	0.018
C2	0.001	C17	0.047	C32	0.005	C47	0.018
C3	0.000	C18	0.085	C33	0.005	C48	0.017
C4	0.000	C19	0.088	C34	0.005	C49	0.016
C5	0.000	C20	0.082	C35	0.005	C50	0.015
C6	0.000	C21	0.066	C36	0.006	C51	0.012
C7	0.000	C22	0.059	C37	0.007	C52	0.011
C8	0.000	C23	0.049	C38	0.009	C53	0.009
C9	0.001	C24	0.042	C39	0.011	C54	0.008
C10	0.002	C25	0.035	C40	0.013	C55	0.007
C11	0.001	C26	0.028	C41	0.014	C56	0.006
C12	0.002	C27	0.021	C42	0.016	C57	0.006
C13	0.004	C28	0.016	C43	0.017	C58	0.005
C14	0.007	C29	0.011	C44	0.019	C59	0.004
C15	0.014	C30	0.008	C45	0.017	C60	0.004

Total 1.000

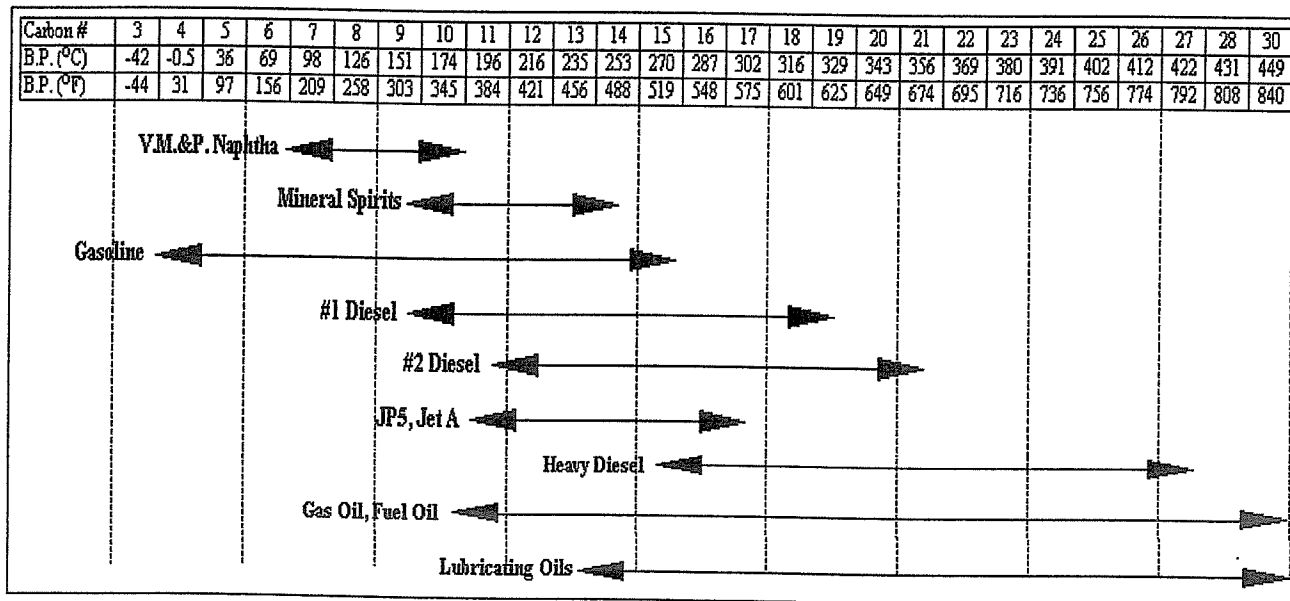


Client ID: ROBERTS BAY ET-01 ROBERTS BAY

Sample ID: L309982-22 prod
Injection Date: 8/30/2005 8:13:49 PM
Injection Time: 8/30/2005 8:13:49 PM
Instrument ID: Instrument 1
Operator: organics



Boiling Point Distribution Range for Petroleum Based Fuel Products



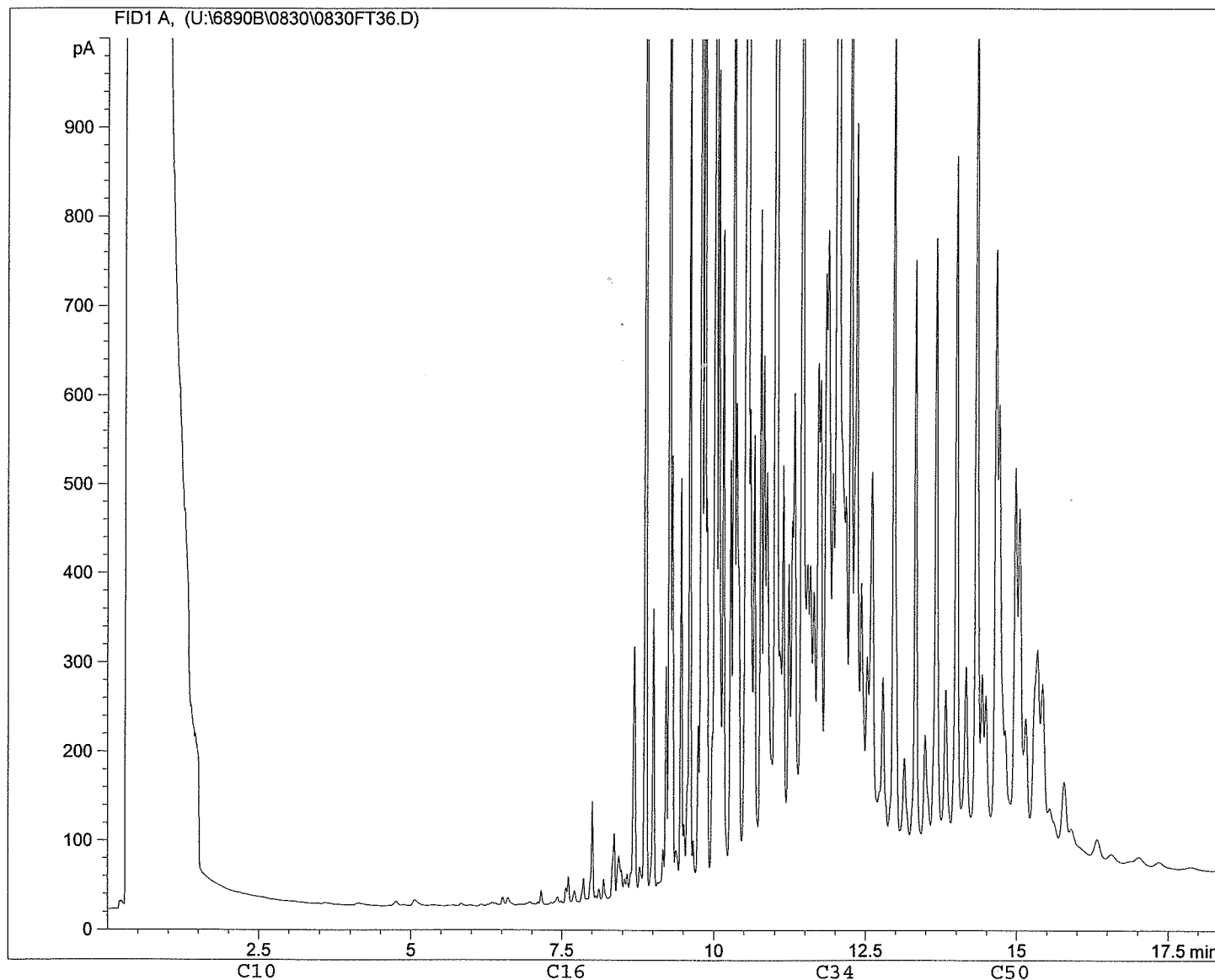
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

Client ID: ET-1101 ROBERTS BAY

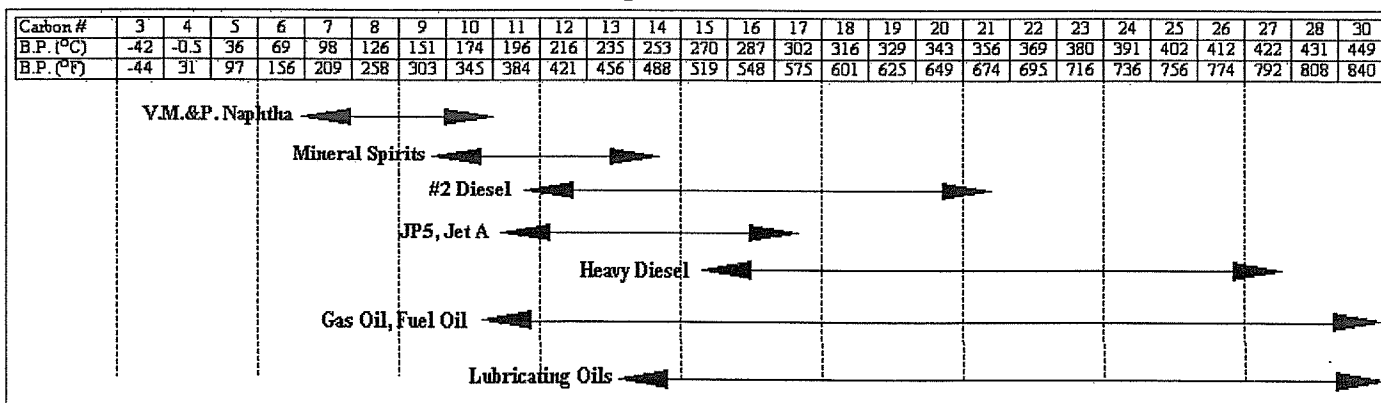
Sample ID: L309982-24 4
Injection Date: 8/31/05 8:49:44 AM
Instrument: 6890



Total Extractable Hydrocarbons



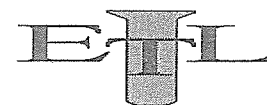
Boiling Point Distribution Range of Petroleum Based Fuel Products



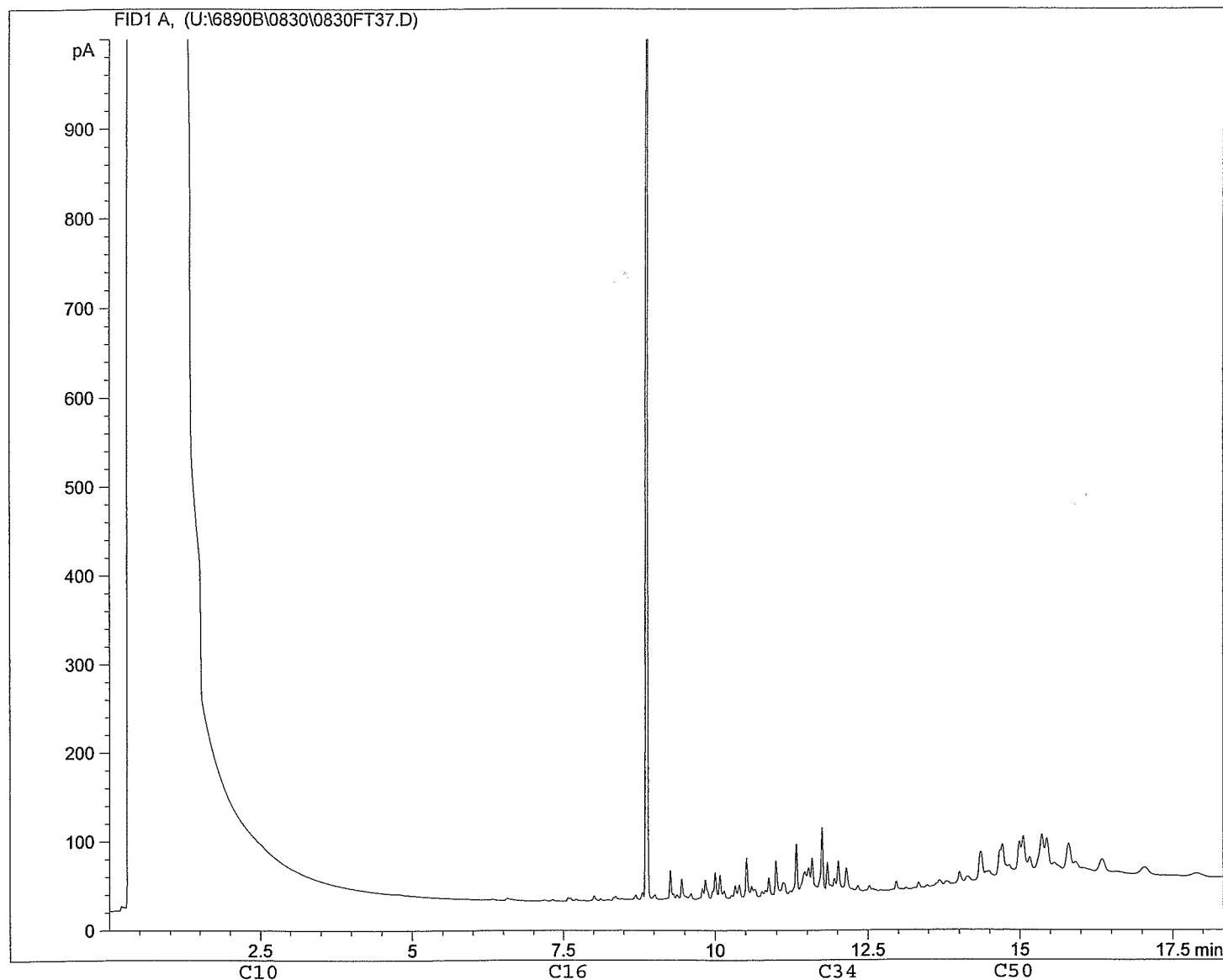
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1108 ROBERTS BAY

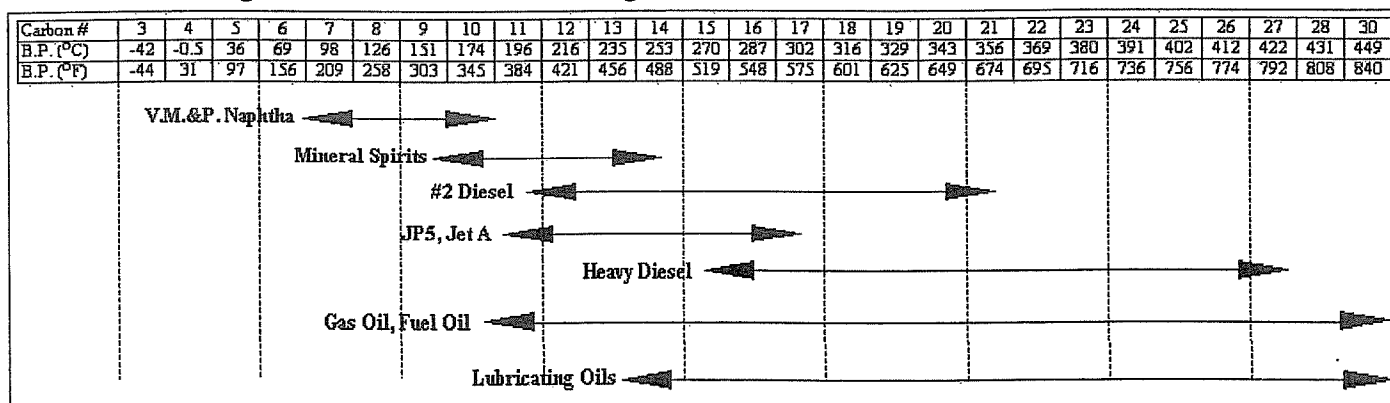
Sample ID: L309982-25 4
Injection Date: 8/31/05 9:16:04 AM
Instrument: 6890



Total Extractable Hydrocarbons



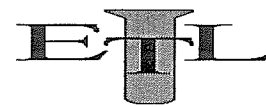
Boiling Point Distribution Range of Petroleum Based Fuel Products



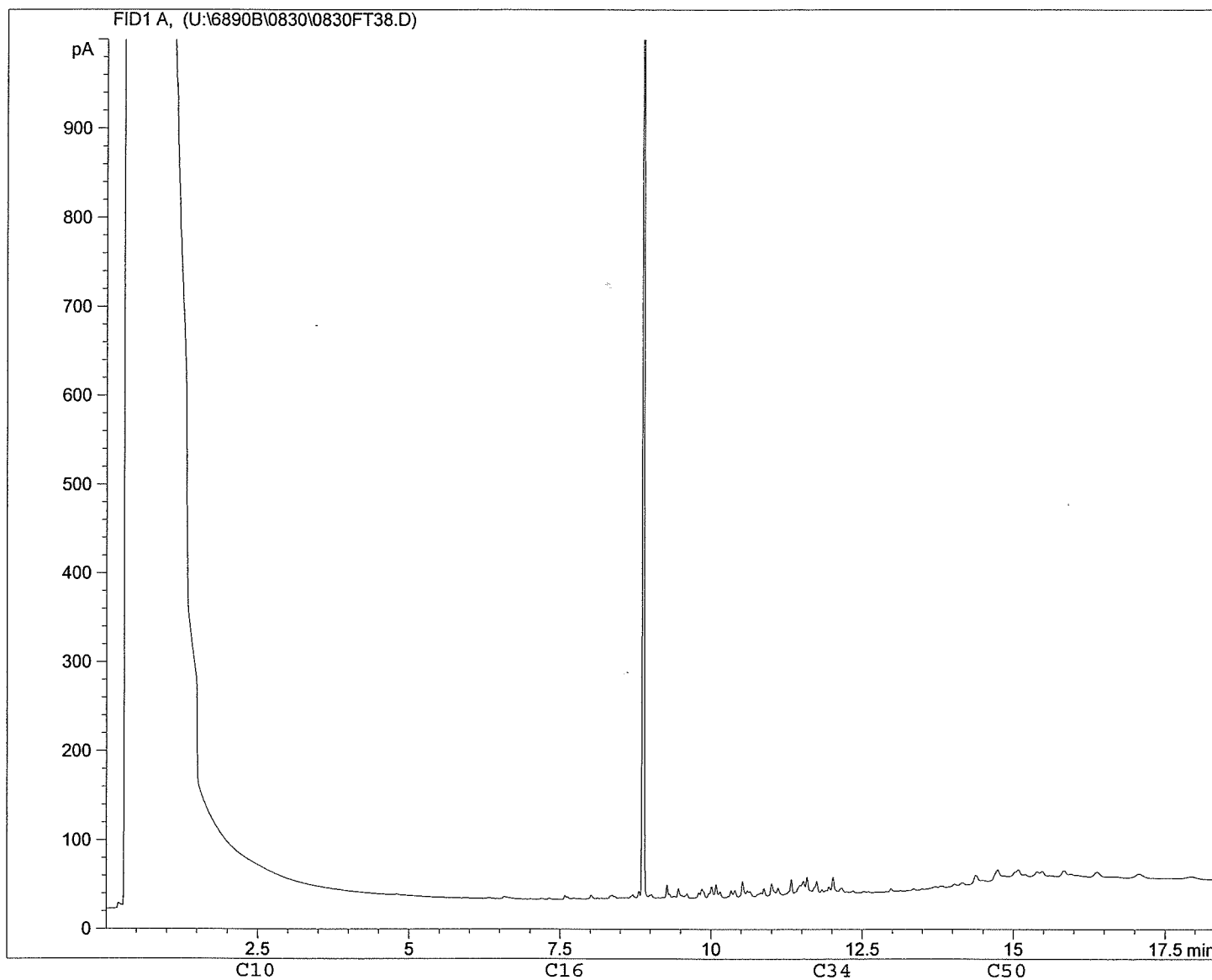
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1109 ROBERTS BAY

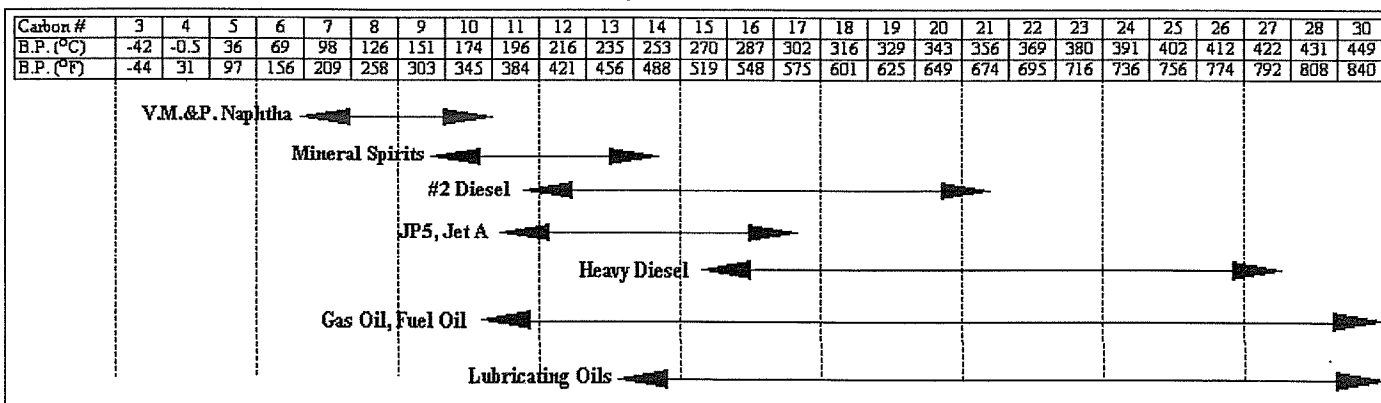
Sample ID: L309982-26 4
Injection Date: 8/31/05 9:42:10 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



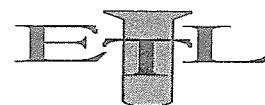
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1111 ROBERTS BAY

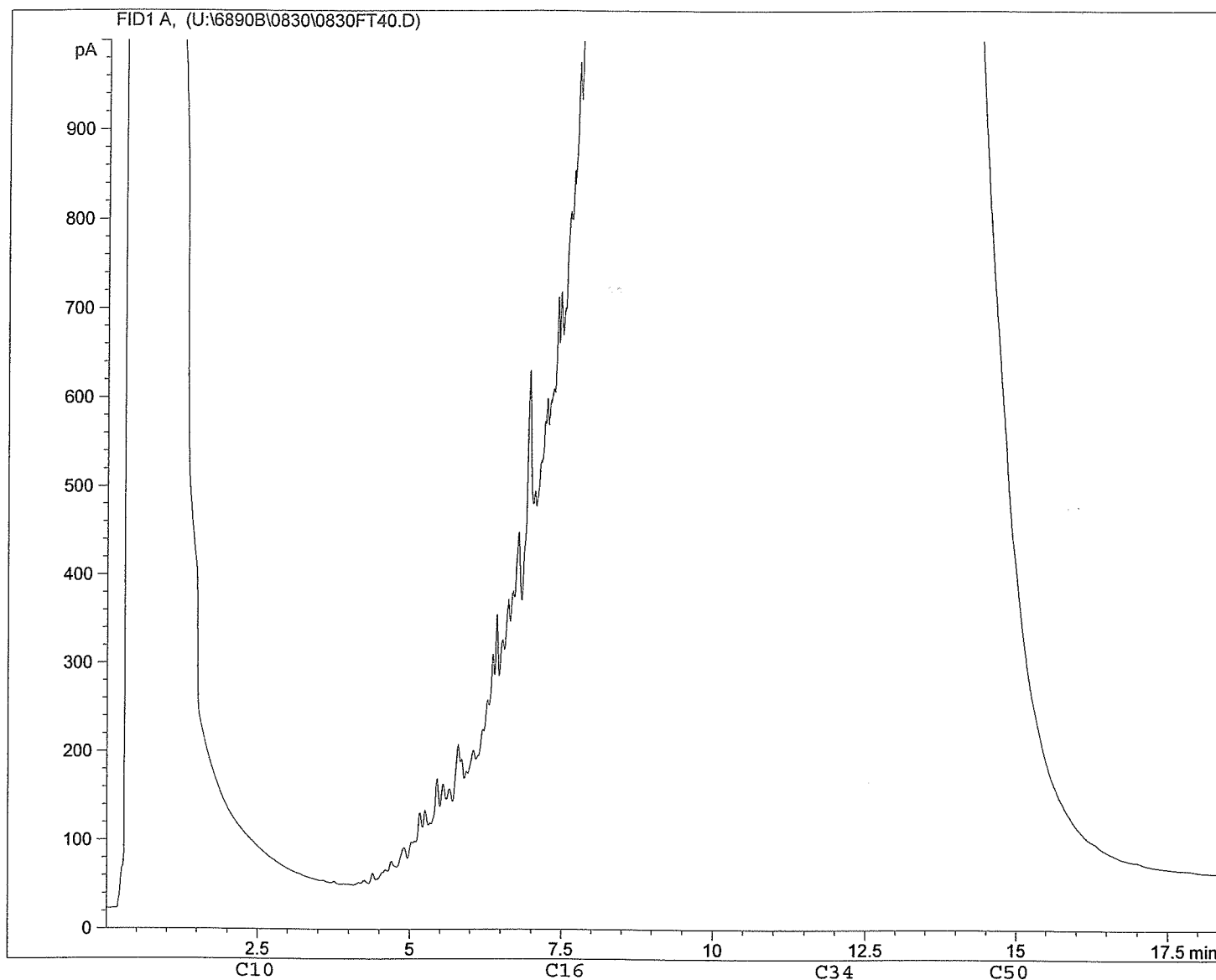
Sample ID: L309982-27 4

Injection Date: 8/31/05 10:34:43 AM

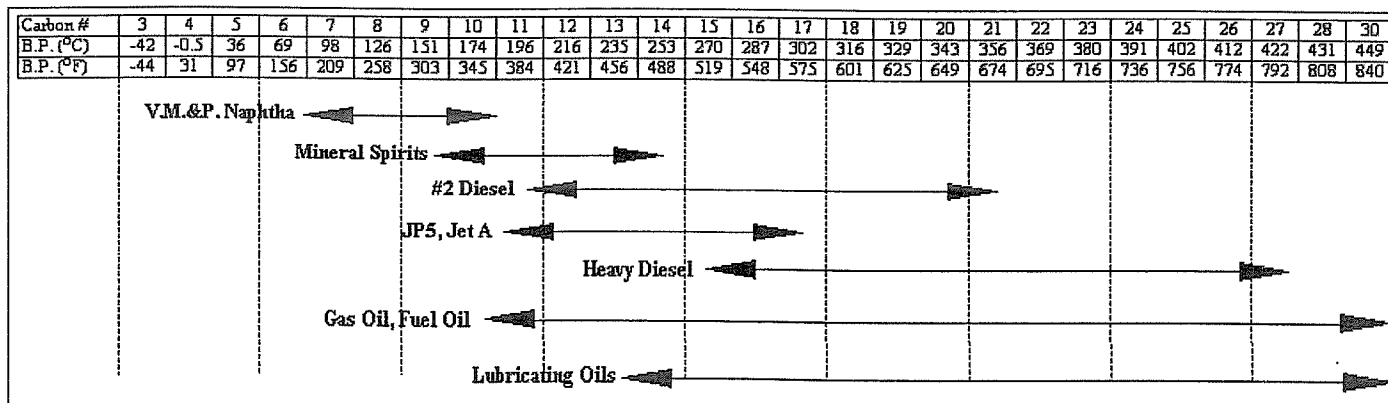
Instrument: 6890



Total Extractable Hydrocarbons



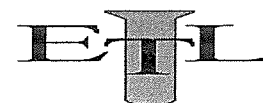
Boiling Point Distribution Range of Petroleum Based Fuel Products



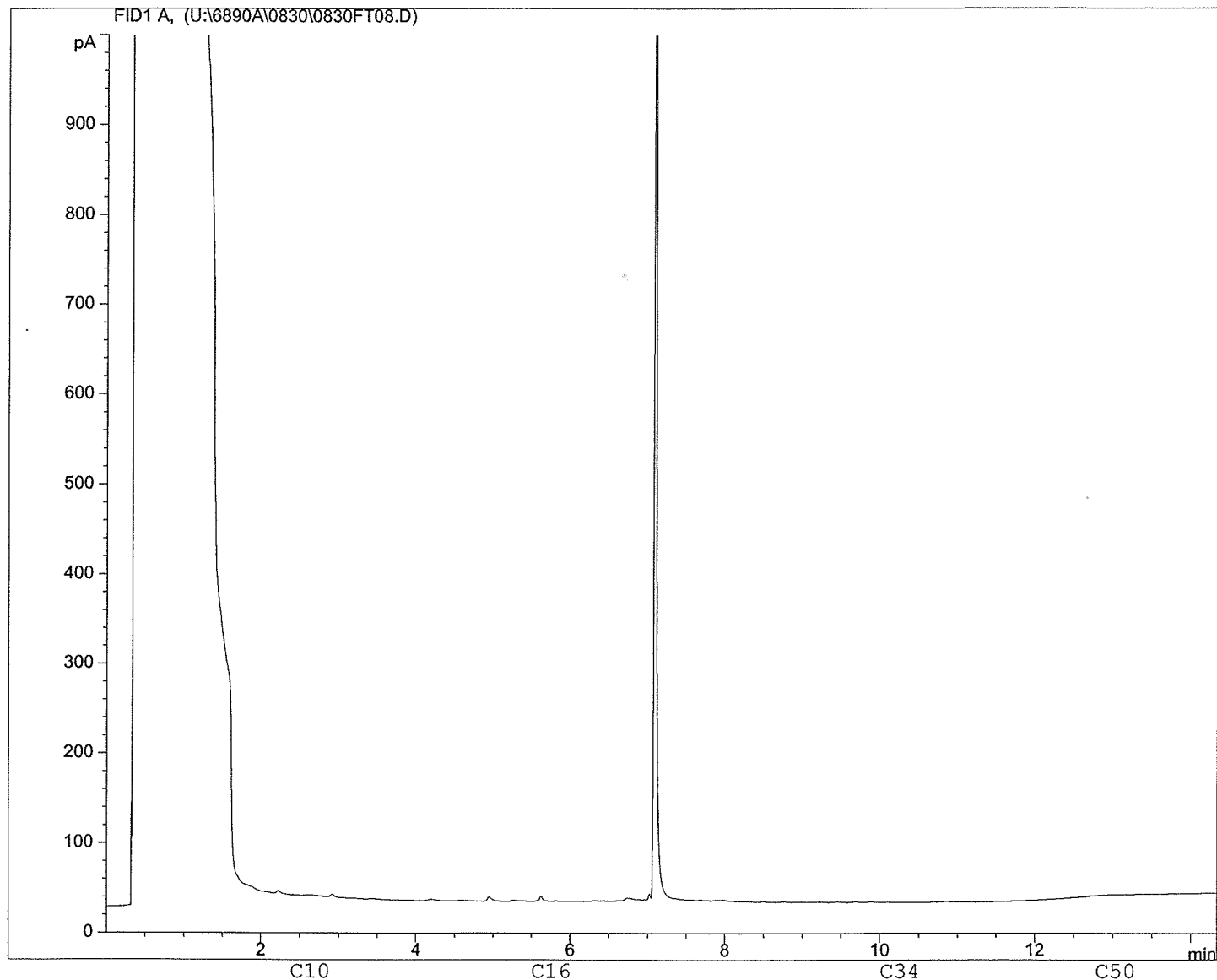
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

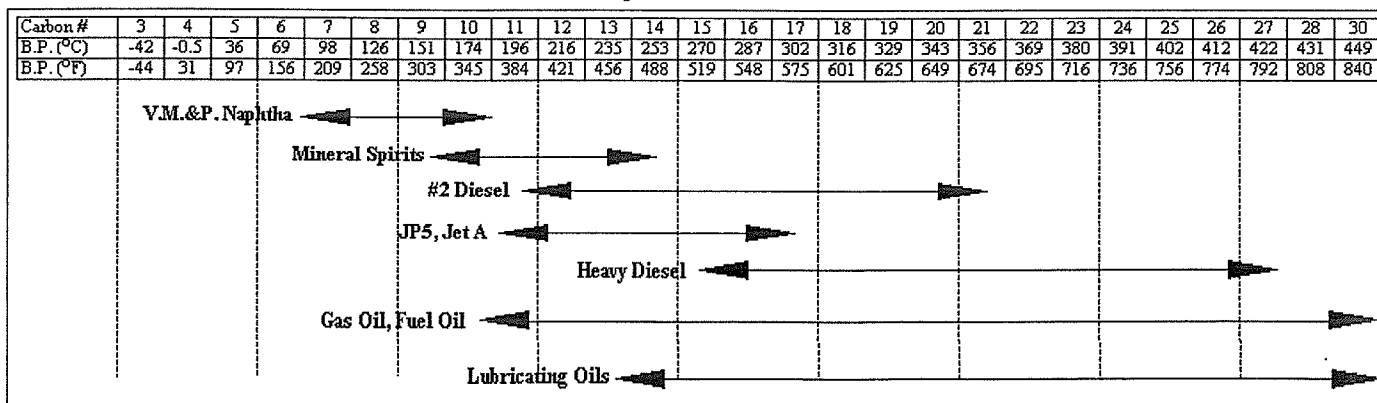
Sample ID: MB 4
Injection Date: 8/30/2005 6:30:43 PM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



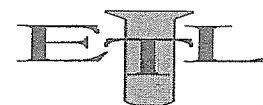
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1112 ROBERTS BAY

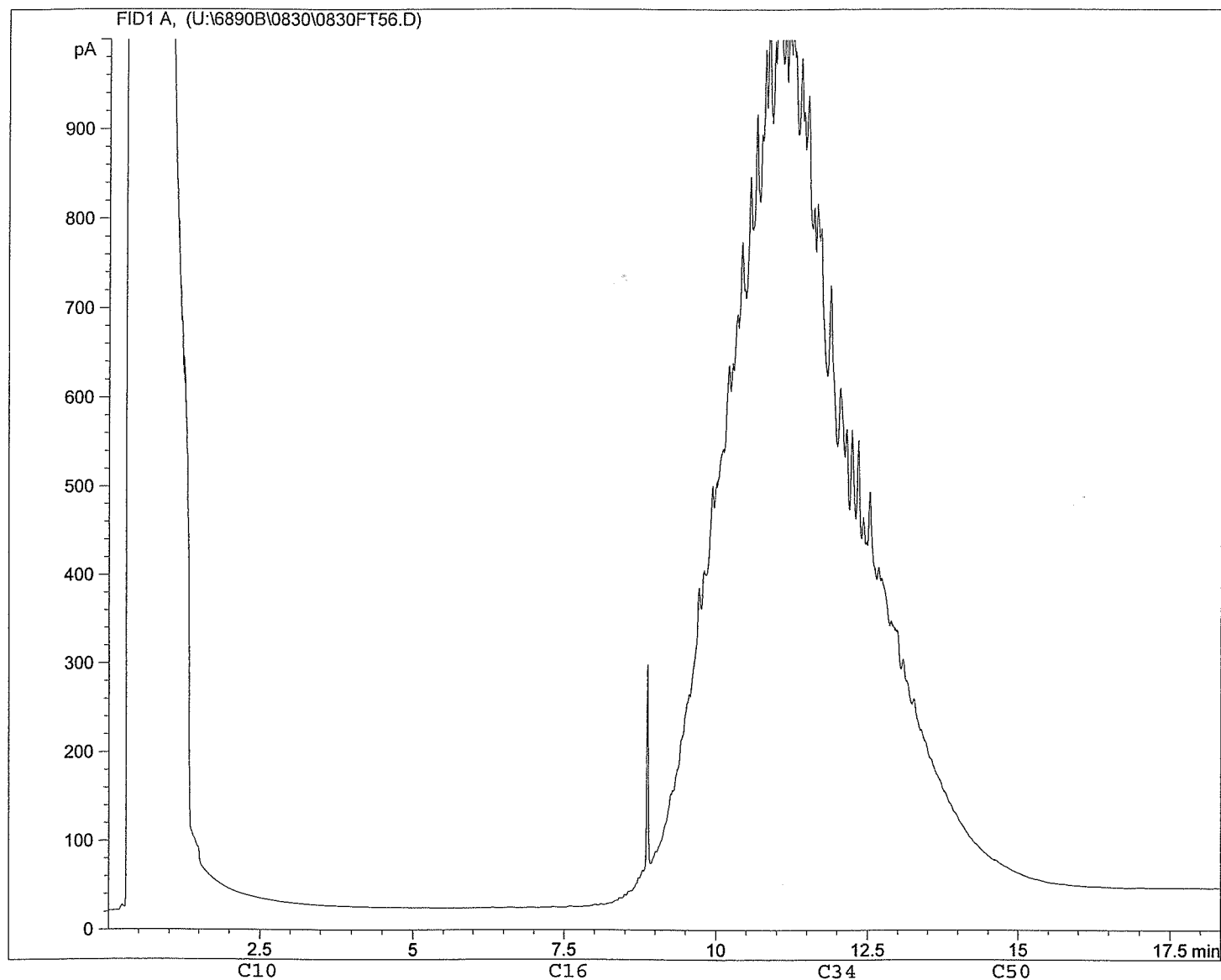
Sample ID: L309982-28 40

Injection Date: 8/31/05 5:36:26 PM

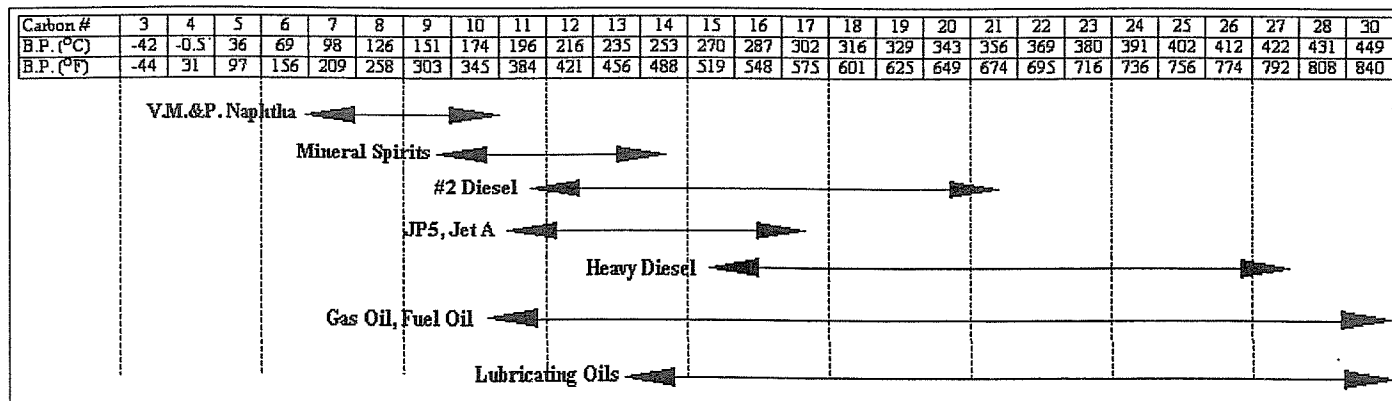
Instrument: 6890



Total Extractable Hydrocarbons



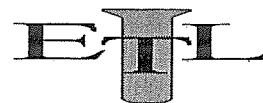
Boiling Point Distribution Range of Petroleum Based Fuel Products



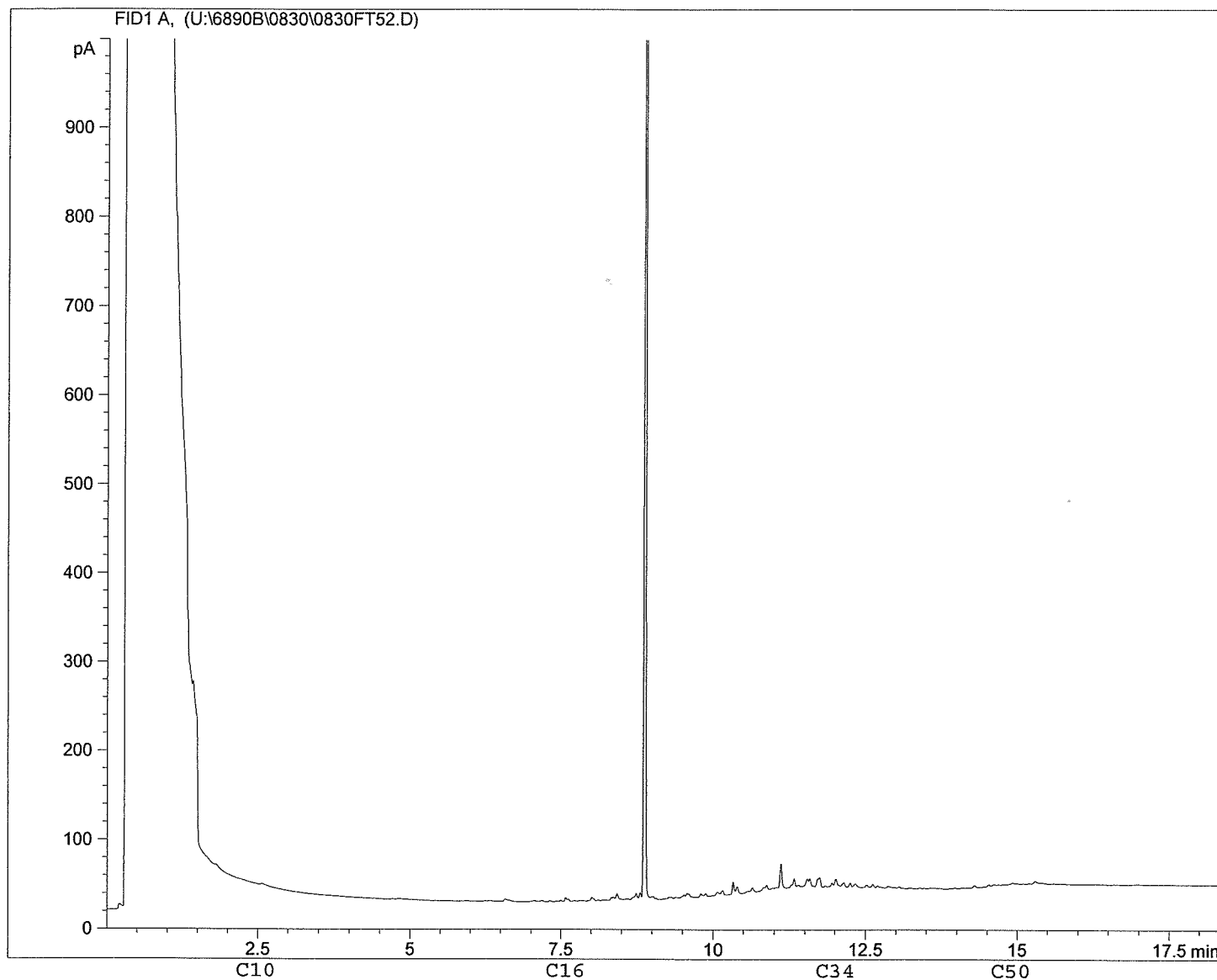
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1113 ROBERTS BAY

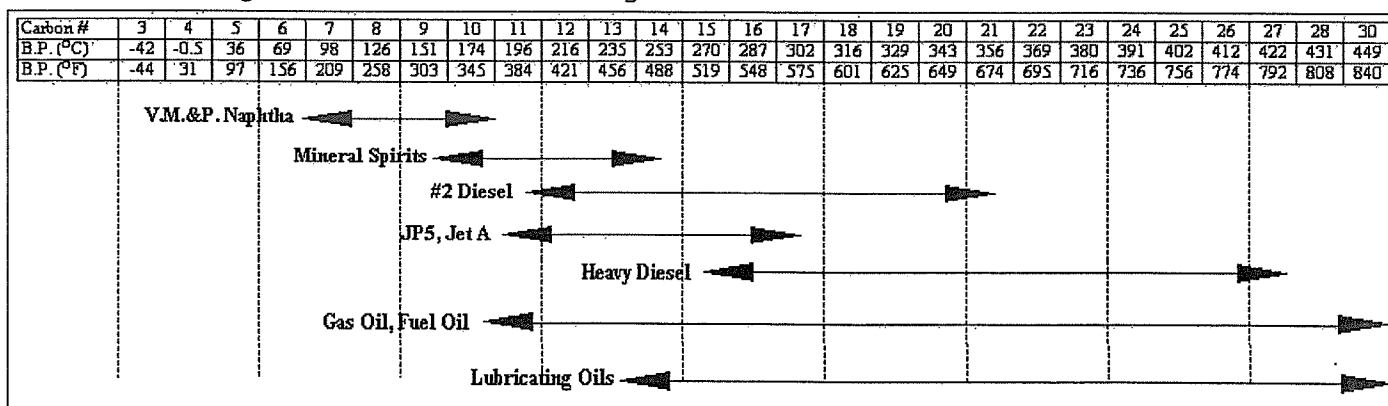
Sample ID: L309982-29 4
Injection Date: 8/31/05 3:52:09 PM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

Sample ID:

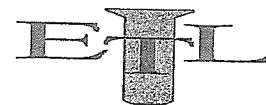
MB 4

Injection Date:

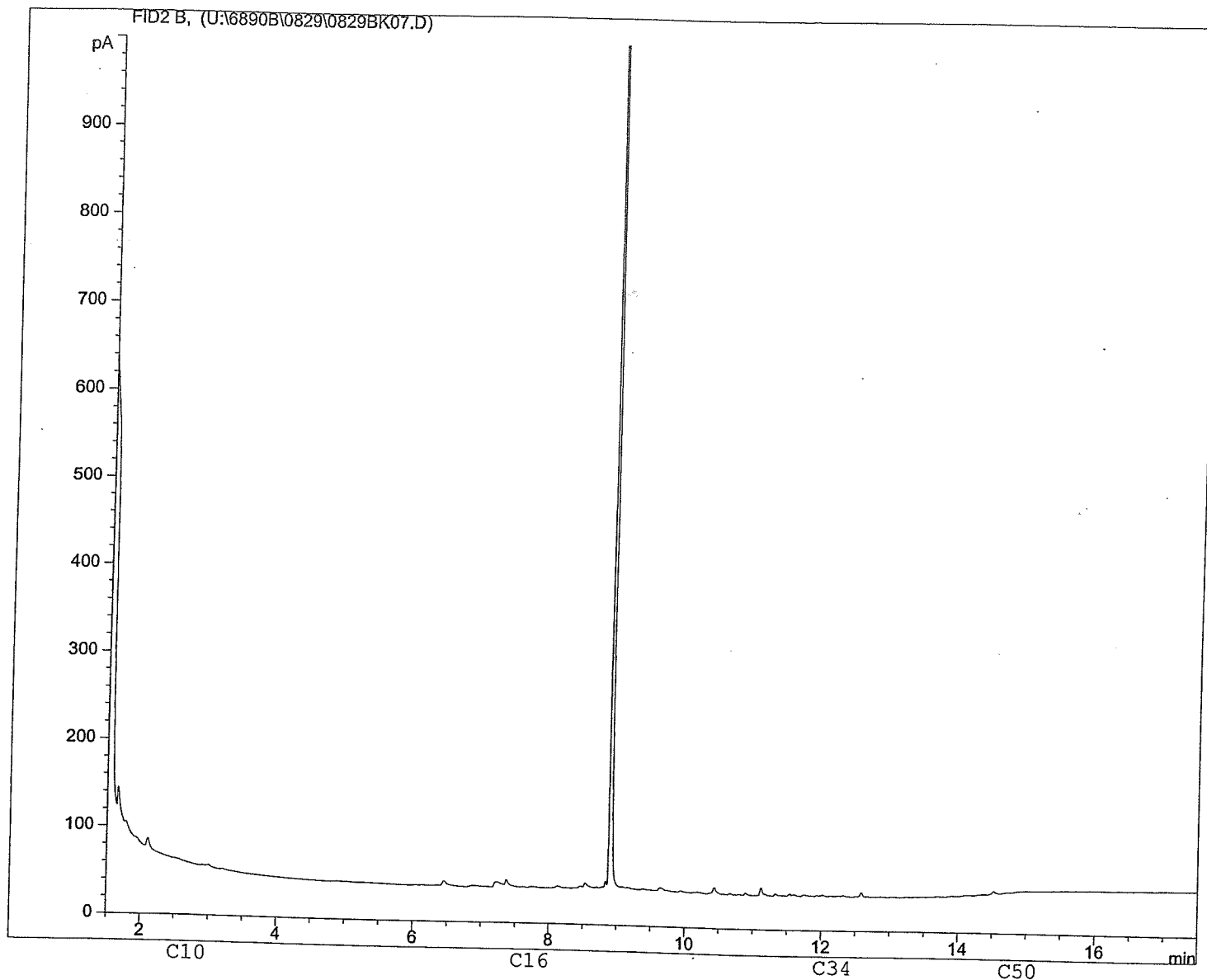
8/29/05 6:30:05 PM

Instrument:

6890



Total Extractable Hydrocarbons



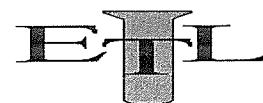
Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon#	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P. (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P. (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840
VM.&P. Naphtha	→																										
Mineral Spirits																											
#2 Diesel																											
JP5, Jet A																											
Heavy Diesel																											
Gas Oil, Fuel Oil																											
Lubricating Oils																											

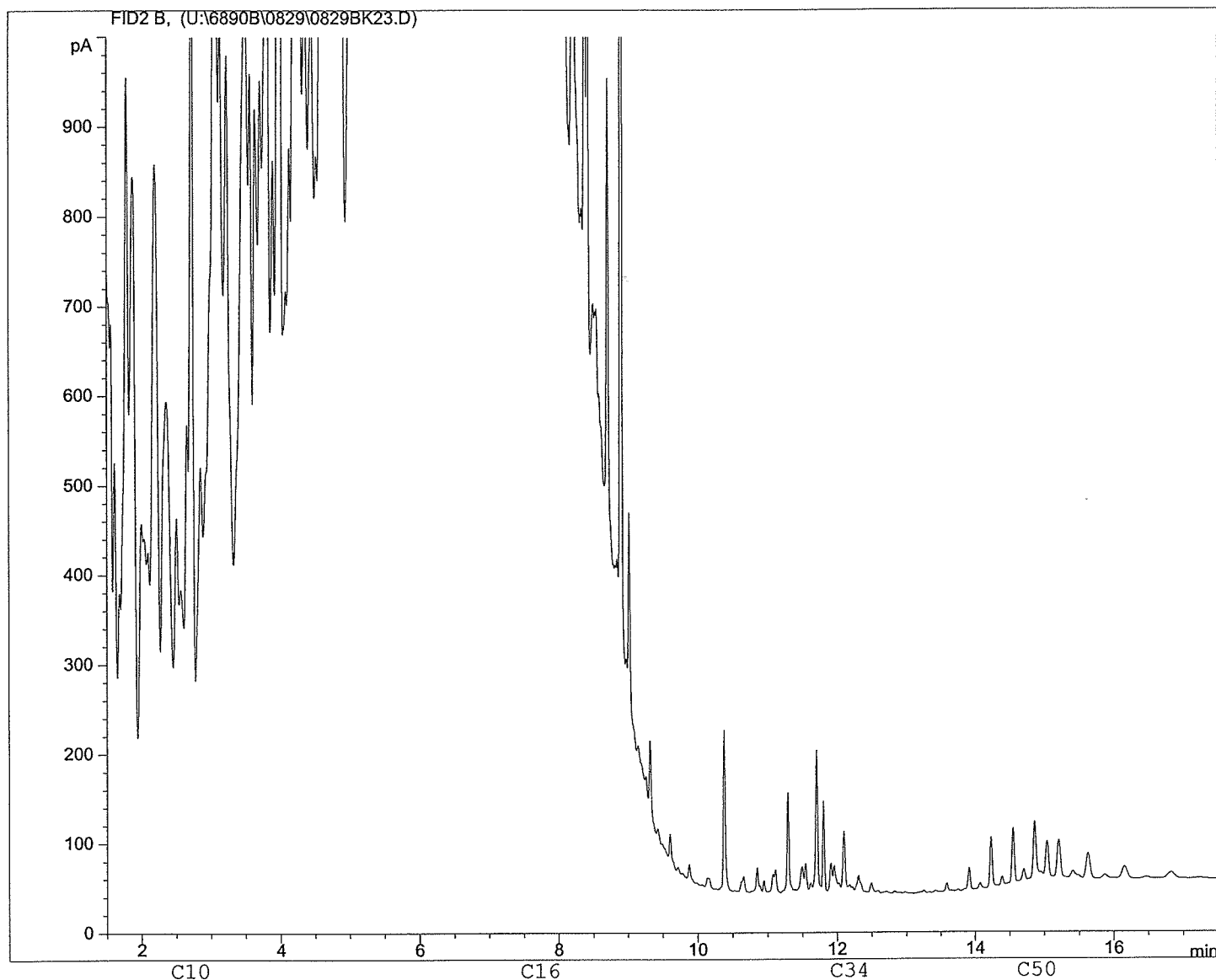
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1151A ROBERTS BAY

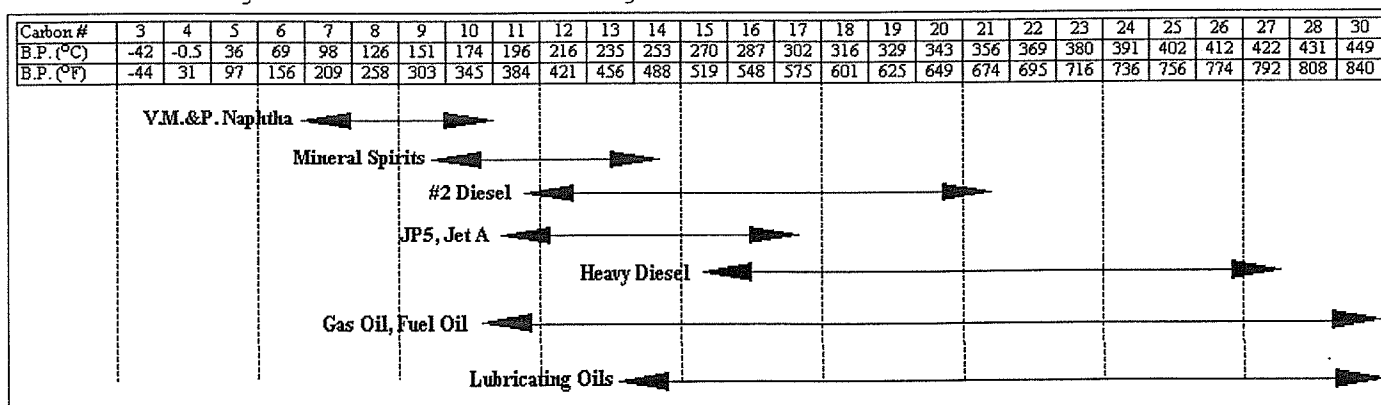
Sample ID: L309982-30 4
Injection Date: 8/30/05 1:30:35 AM
Instrument: 6890



Total Extractable Hydrocarbons



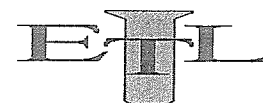
Boiling Point Distribution Range of Petroleum Based Fuel Products



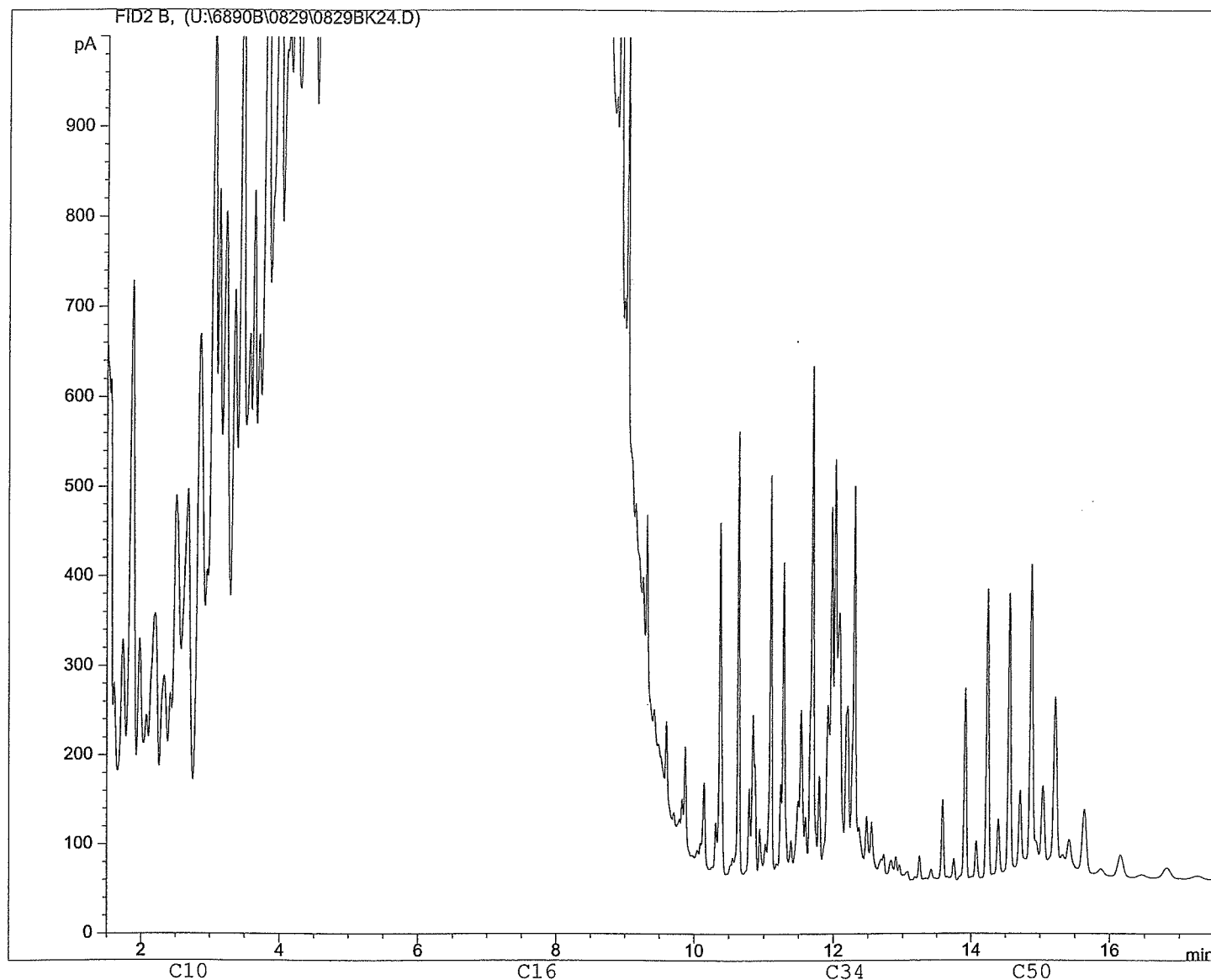
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1152A ROBERTS BAY

Sample ID: L309982-31 4
Injection Date: 8/30/05 1:56:36 AM
Instrument: 6890



Total Extractable Hydrocarbons

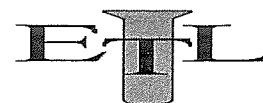


Boiling Point Distribution Range of Petroleum Based Fuel Products

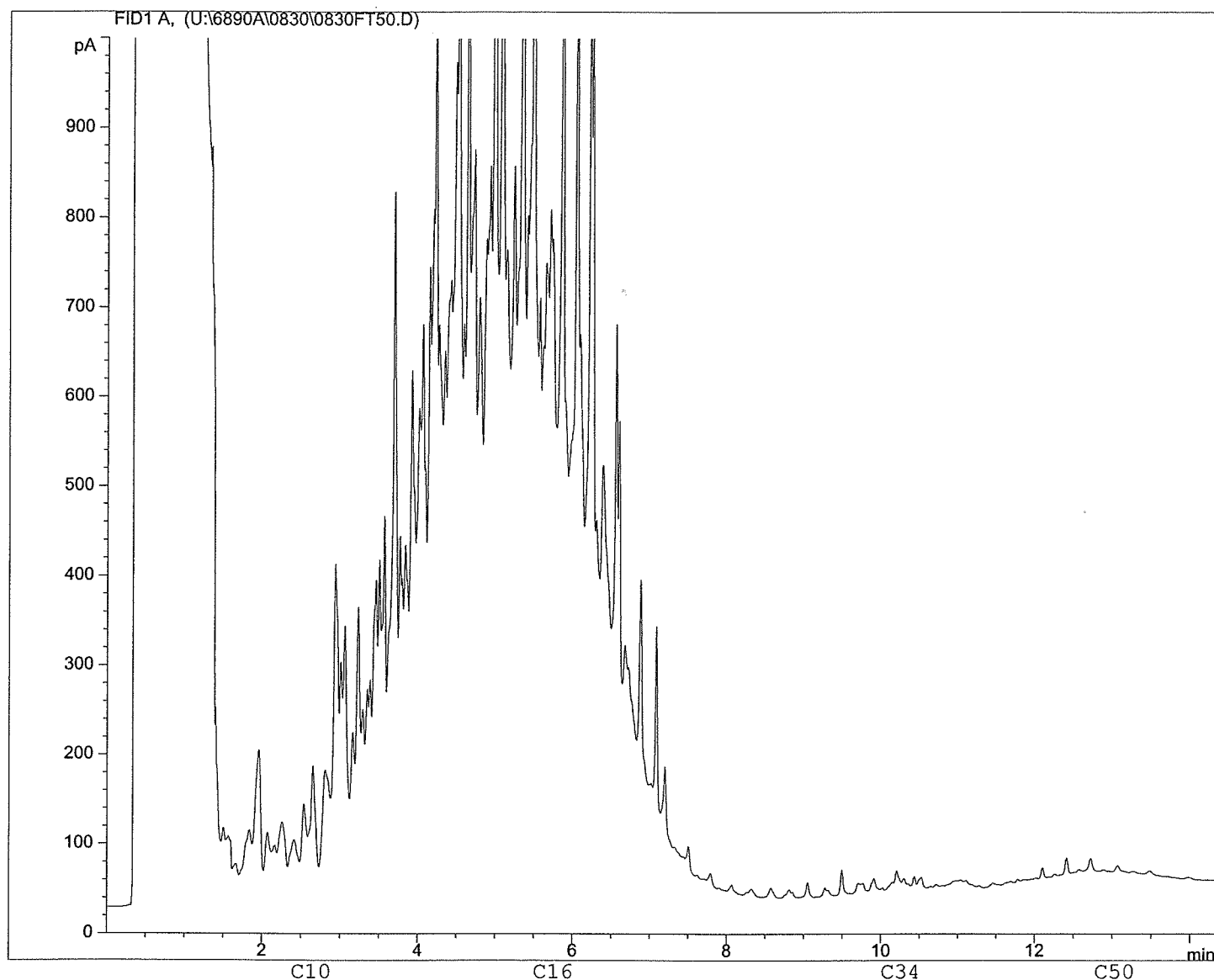
Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P. (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P. (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840
V.M.&P. Naphtha	→																										
Mineral Spirits																											
#2 Diesel																											
JP5, Jet A																											
Heavy Diesel																											
Gas Oil, Fuel Oil																											
Lubricating Oils																											

Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

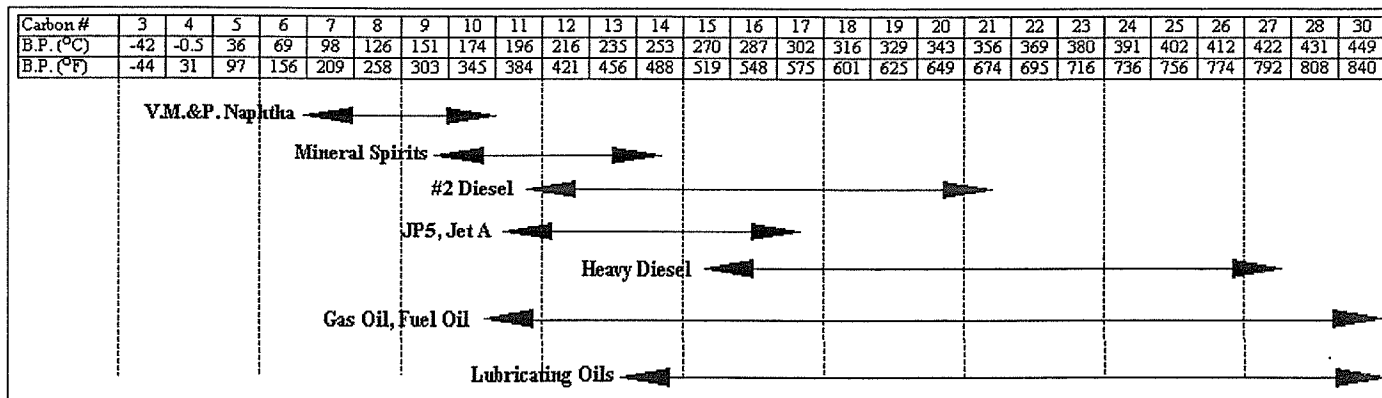
Client ID: ET-1153A ROBERTS BAY
 Sample ID: L309982-32 40
 Injection Date: 8/31/2005 10:09:26 AM
 Instrument: 6890



Total Extractable Hydrocarbons



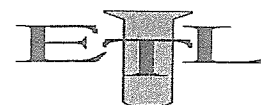
Boiling Point Distribution Range of Petroleum Based Fuel Products



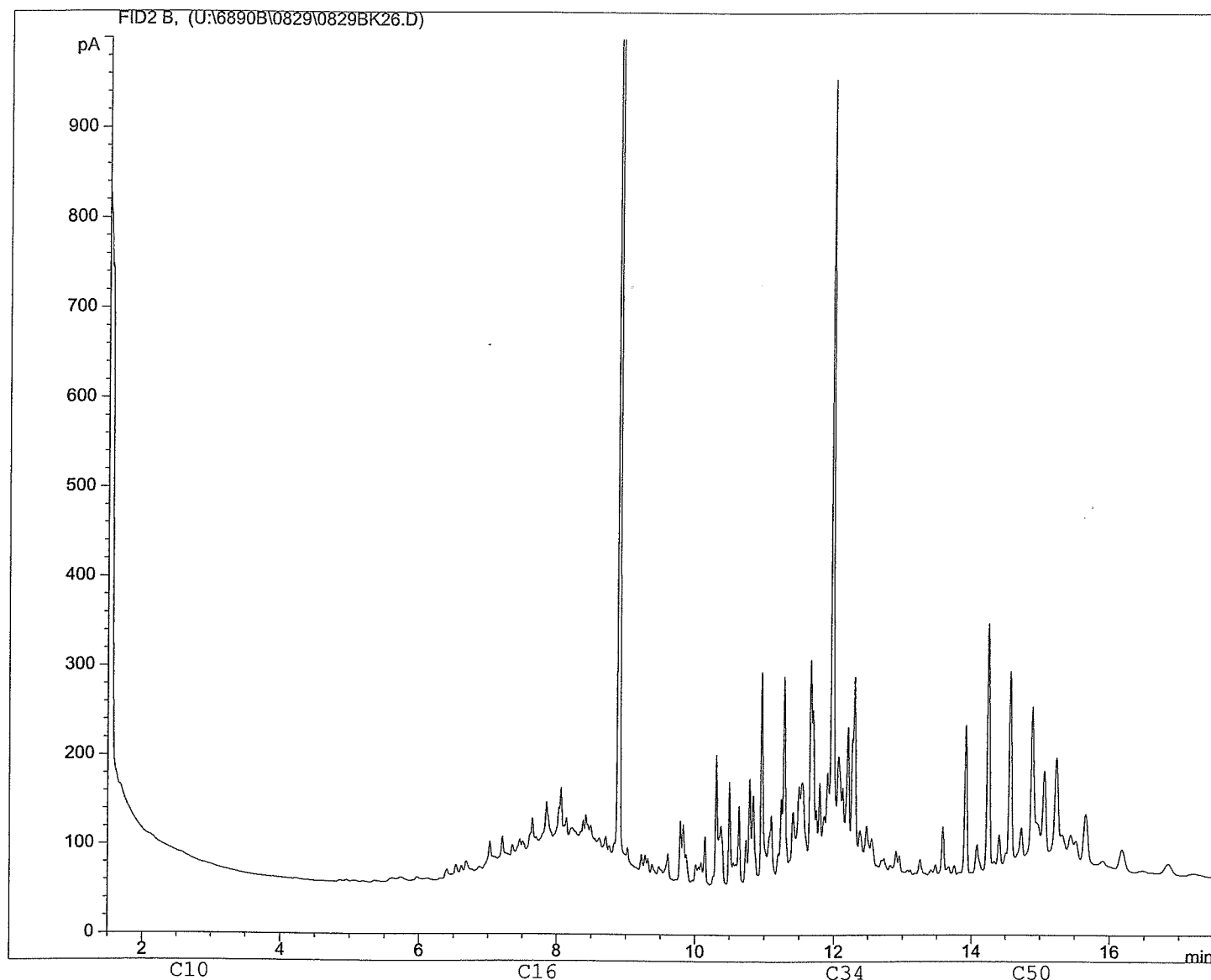
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1154A ROBERTS BAY

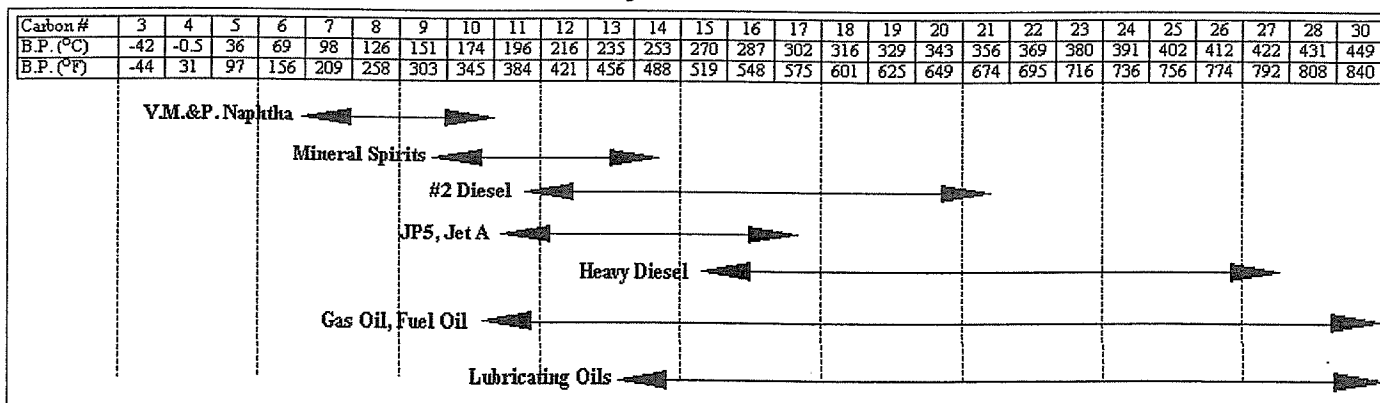
Sample ID: L309982-33 4
Injection Date: 8/30/05 2:48:41 AM
Instrument: 6890



Total Extractable Hydrocarbons



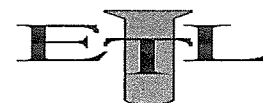
Boiling Point Distribution Range of Petroleum Based Fuel Products



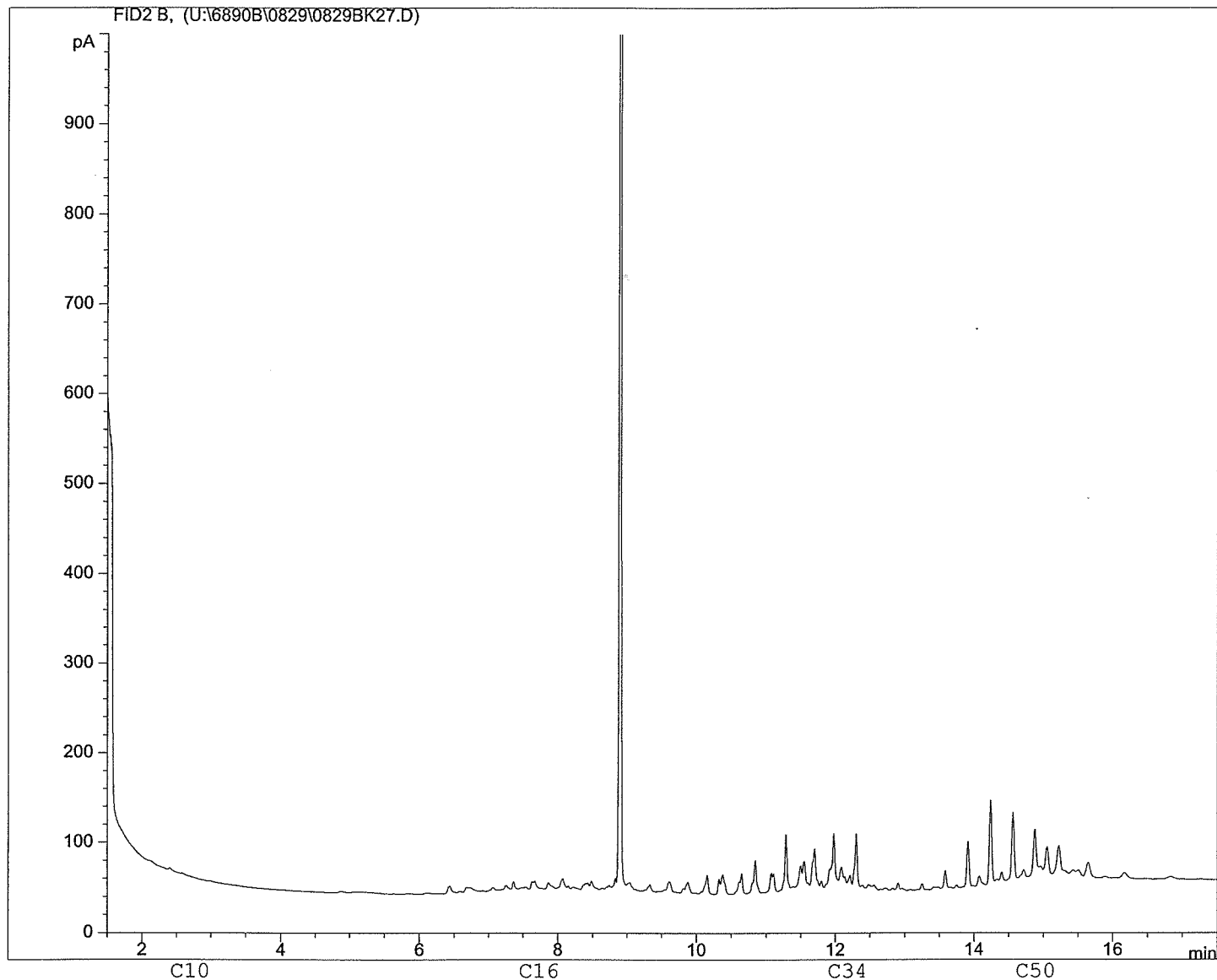
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1155A ROBERTS BAY

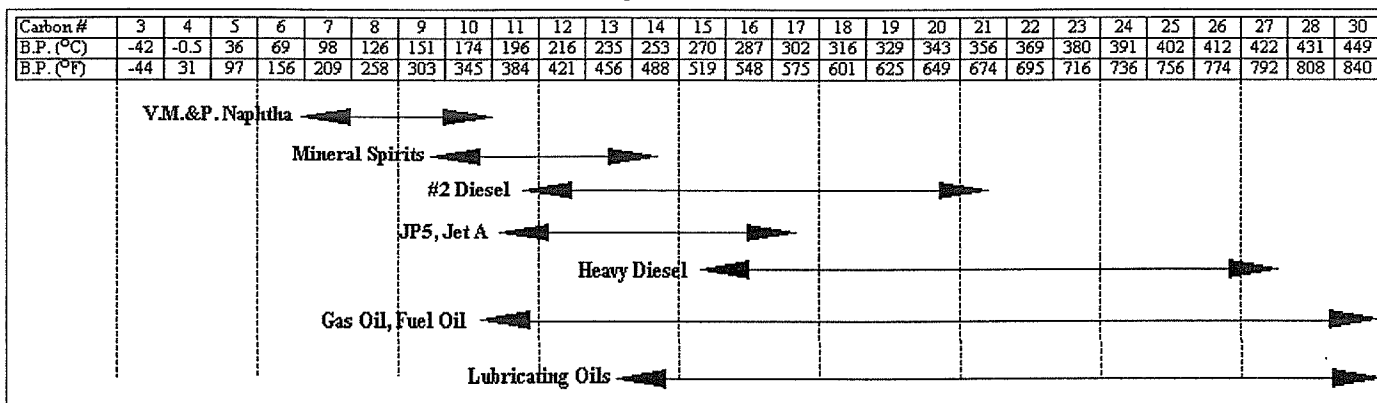
Sample ID: L309982-34 4
Injection Date: 8/30/05 3:14:33 AM
Instrument: 6890



Total Extractable Hydrocarbons



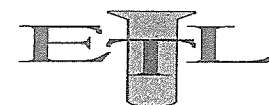
Boiling Point Distribution Range of Petroleum Based Fuel Products



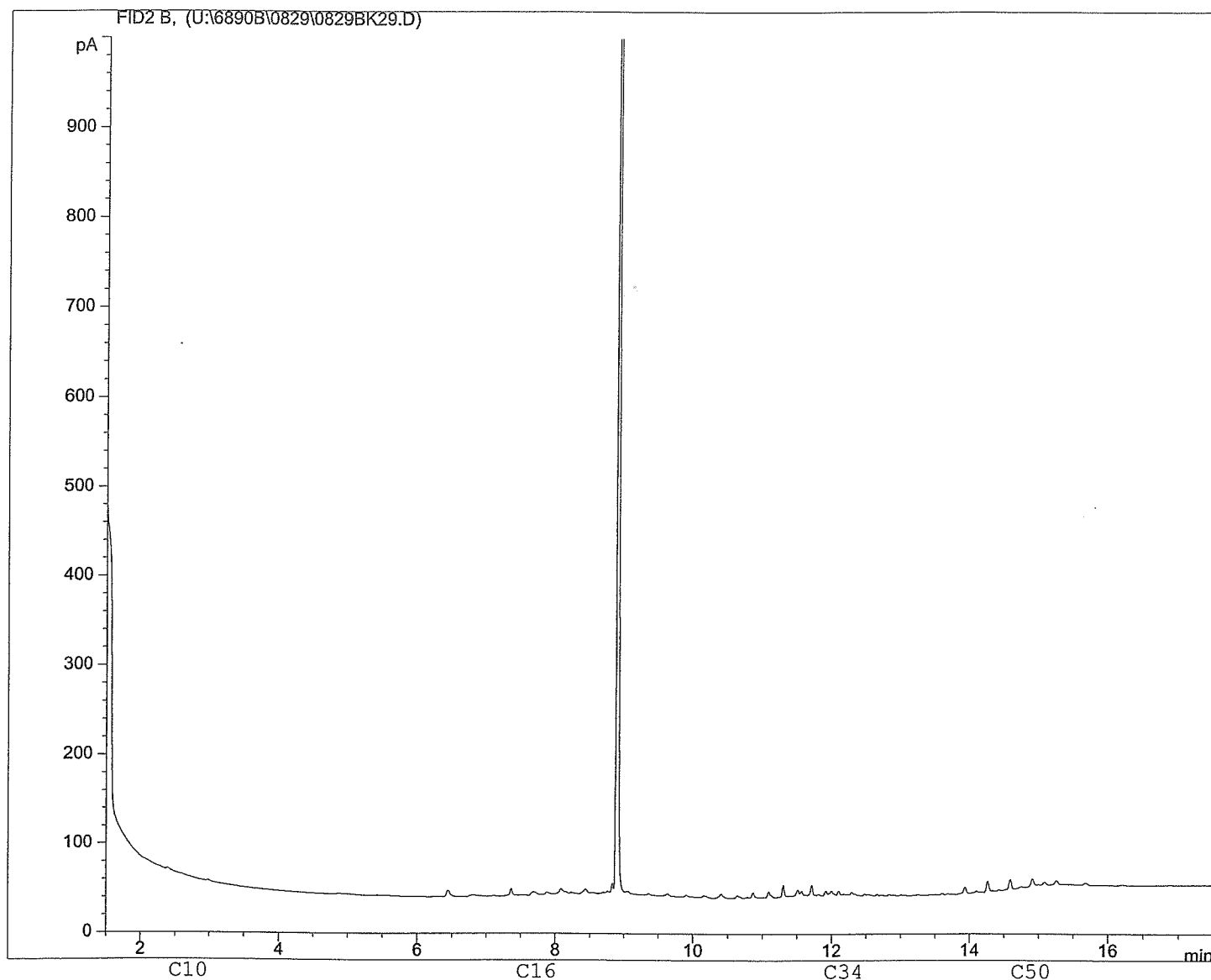
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1156A ROBERTS BAY

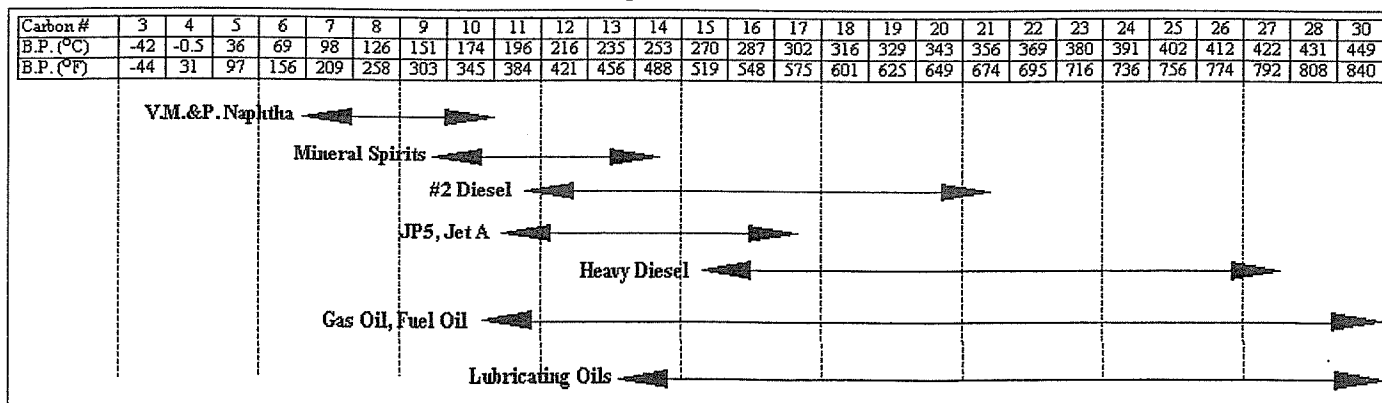
Sample ID: L309982-35 4
Injection Date: 8/30/05 4:06:43 AM
Instrument: 6890



Total Extractable Hydrocarbons



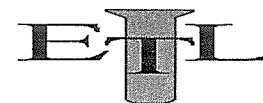
Boiling Point Distribution Range of Petroleum Based Fuel Products



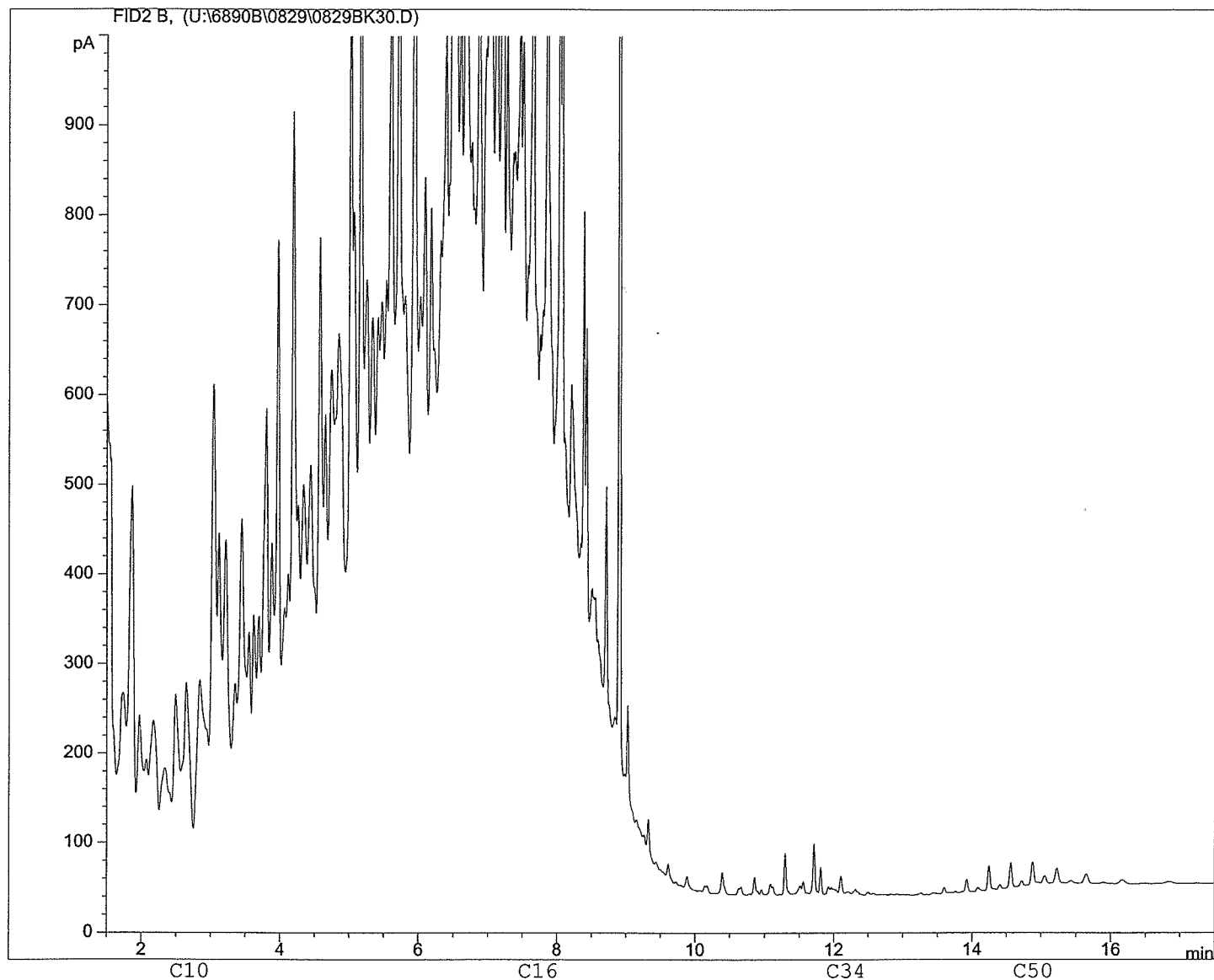
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1152B ROBERTS BAY

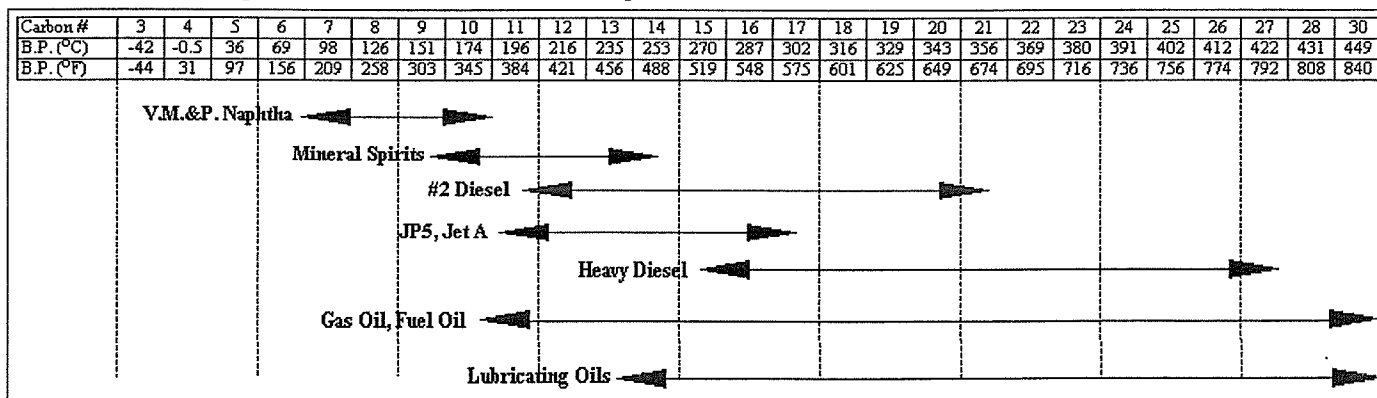
Sample ID: L309982-36 4
Injection Date: 8/30/05 4:32:52 AM
Instrument: 6890



Total Extractable Hydrocarbons



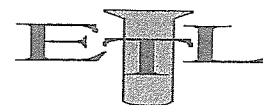
Boiling Point Distribution Range of Petroleum Based Fuel Products



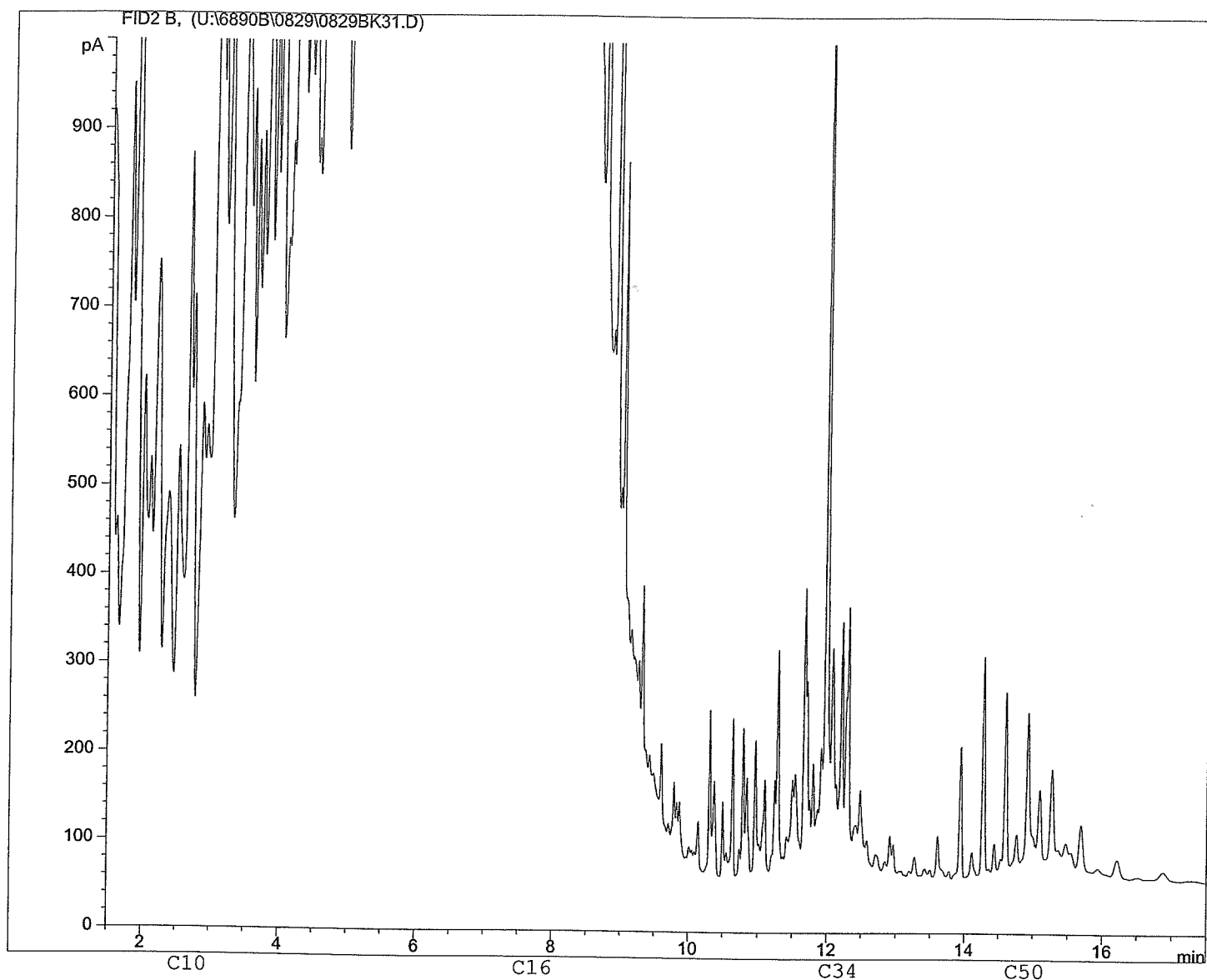
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1153B ROBERTS BAY

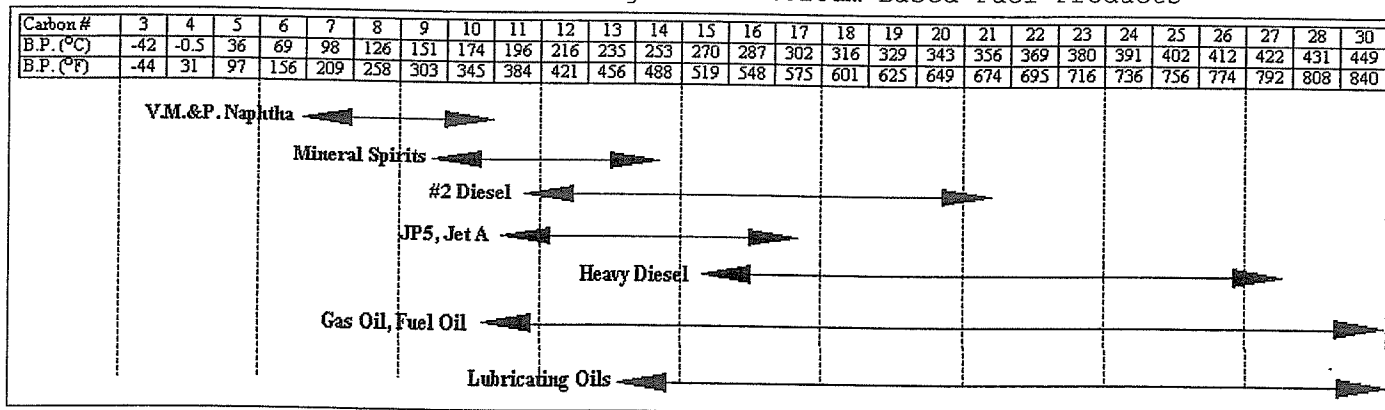
Sample ID: L309982-37 4
Injection Date: 8/30/05 4:59:02 AM
Instrument: 6890



Total Extractable Hydrocarbons



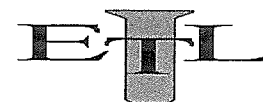
Boiling Point Distribution Range of Petroleum Based Fuel Products



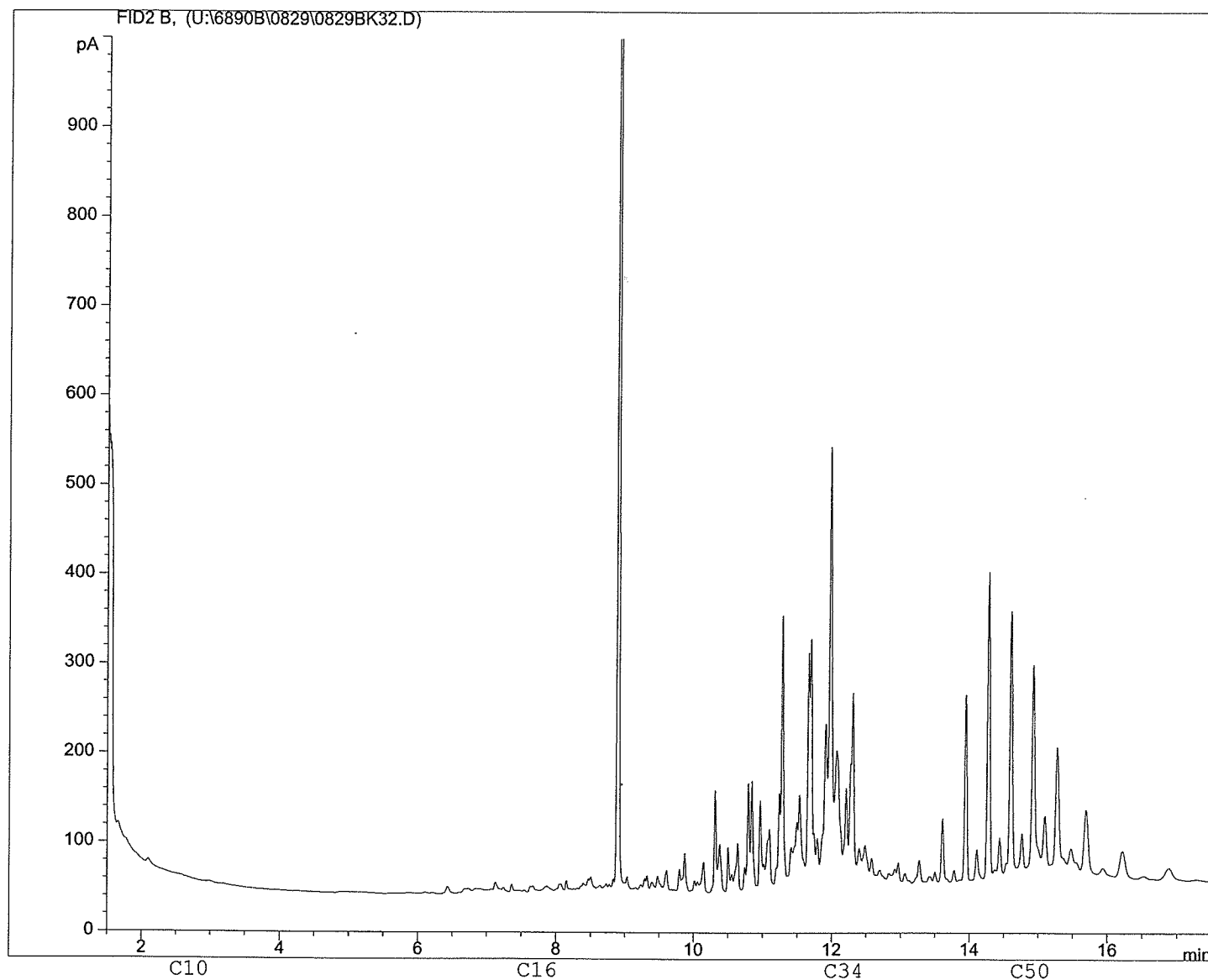
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1159 ROBERTS BAY

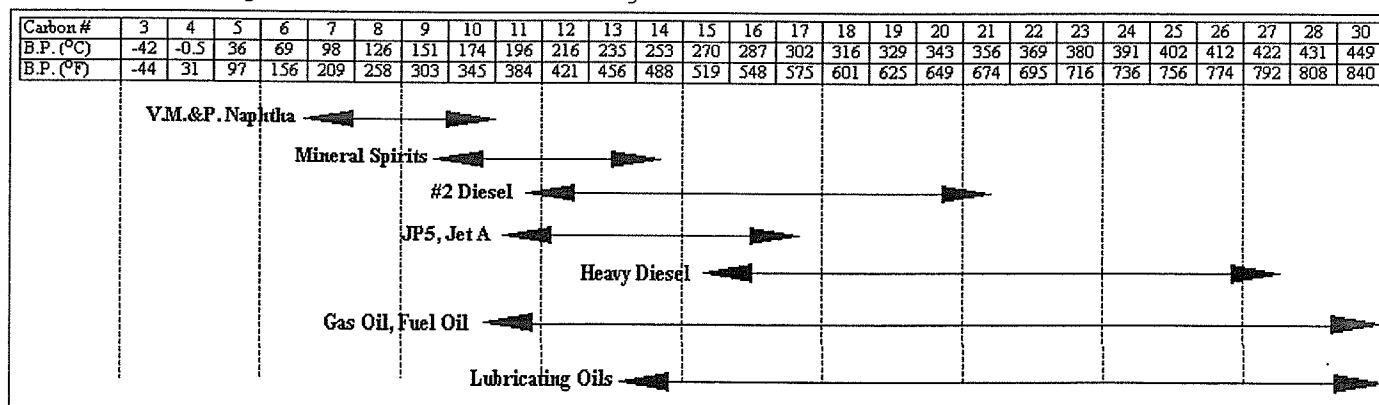
Sample ID: L309982-40 4
Injection Date: 8/30/05 5:24:57 AM
Instrument: 6890



Total Extractable Hydrocarbons



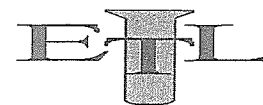
Boiling Point Distribution Range of Petroleum Based Fuel Products



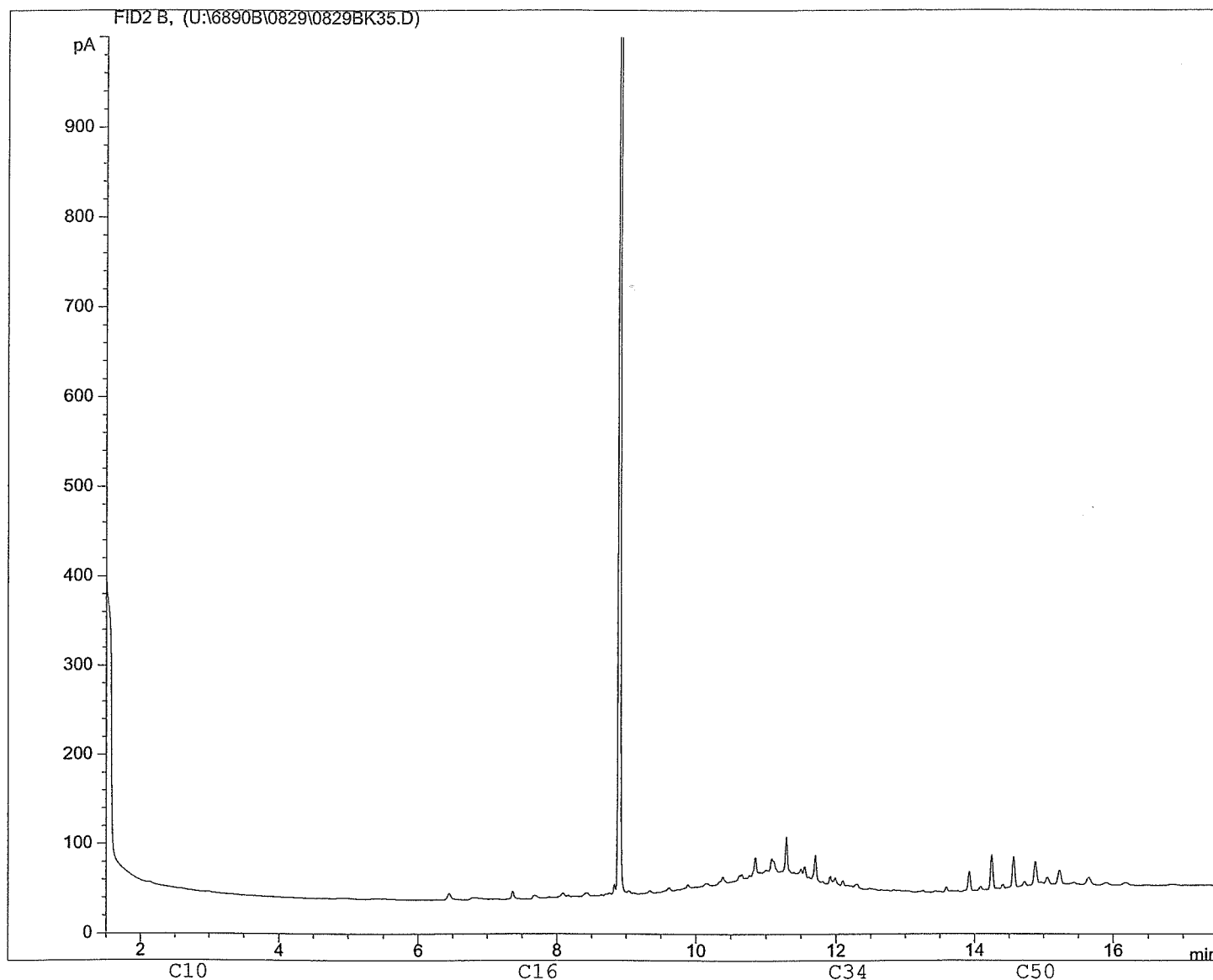
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1161 ROBERTS BAY

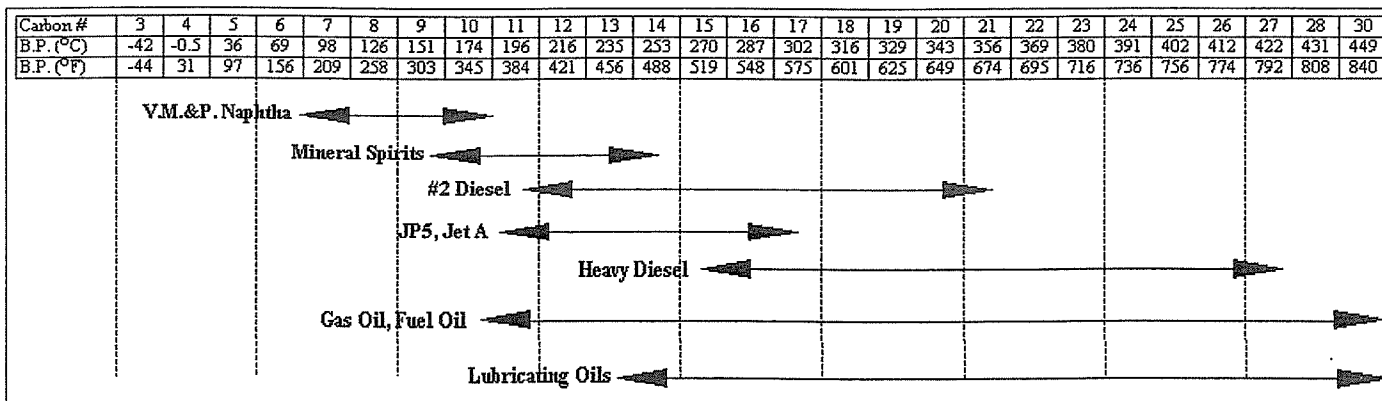
Sample ID: L309982-42 4
Injection Date: 8/30/05 6:43:31 AM
Instrument: 6890



Total Extractable Hydrocarbons



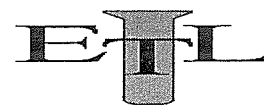
Boiling Point Distribution Range of Petroleum Based Fuel Products



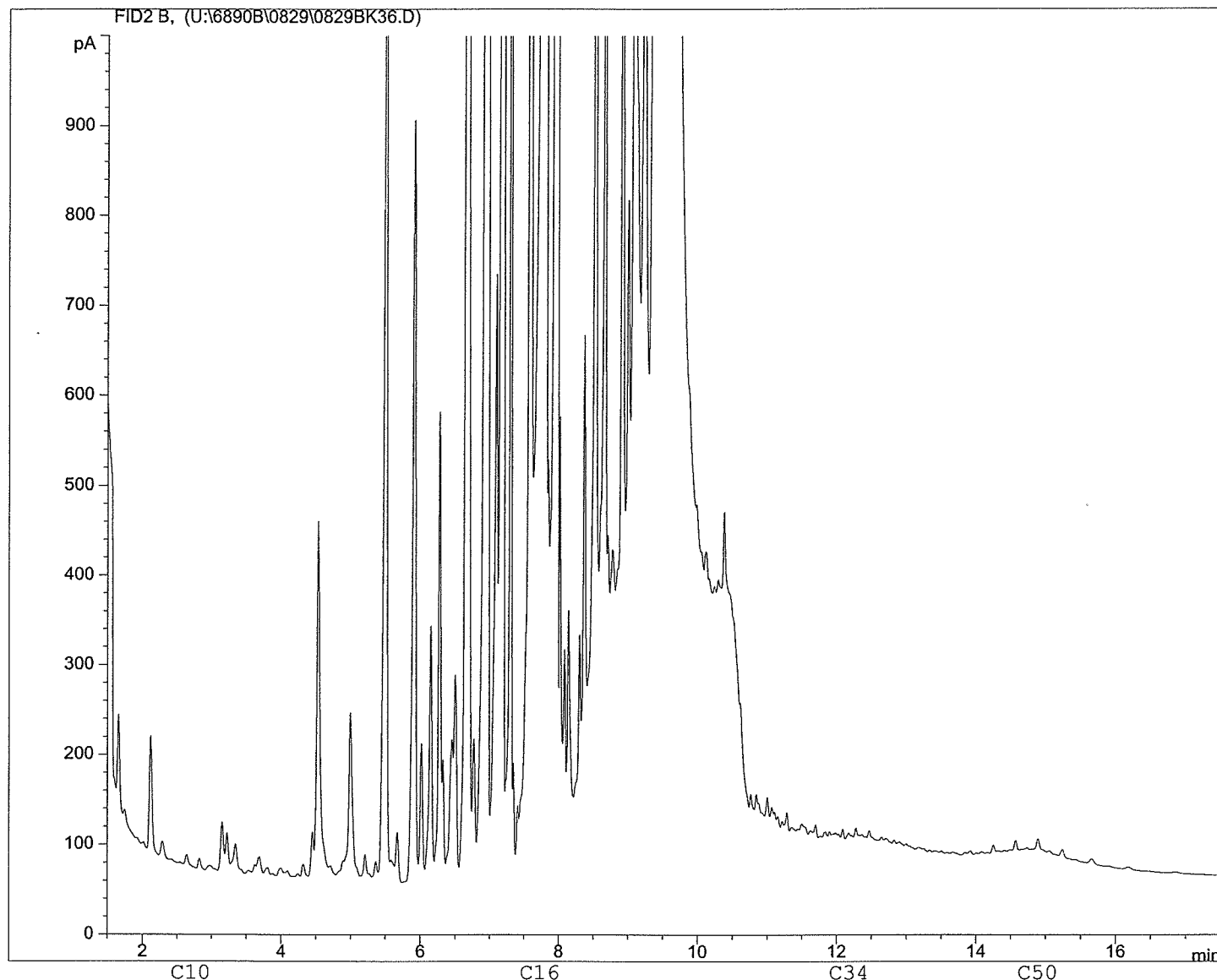
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1162 ROBERTS BAY

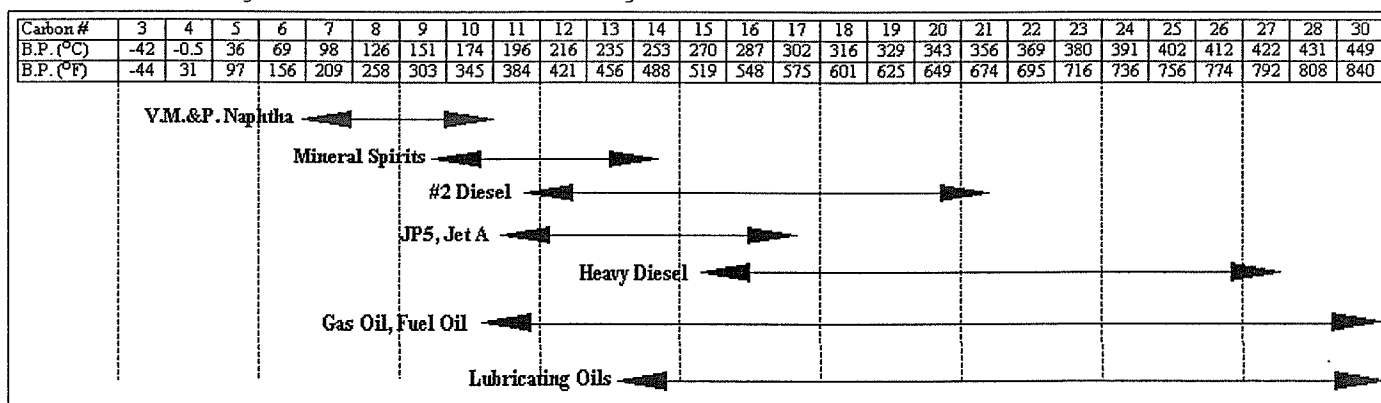
Sample ID: L309982-43 4
Injection Date: 8/30/05 7:09:29 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



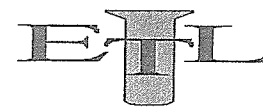
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1163 ROBERTS BAY

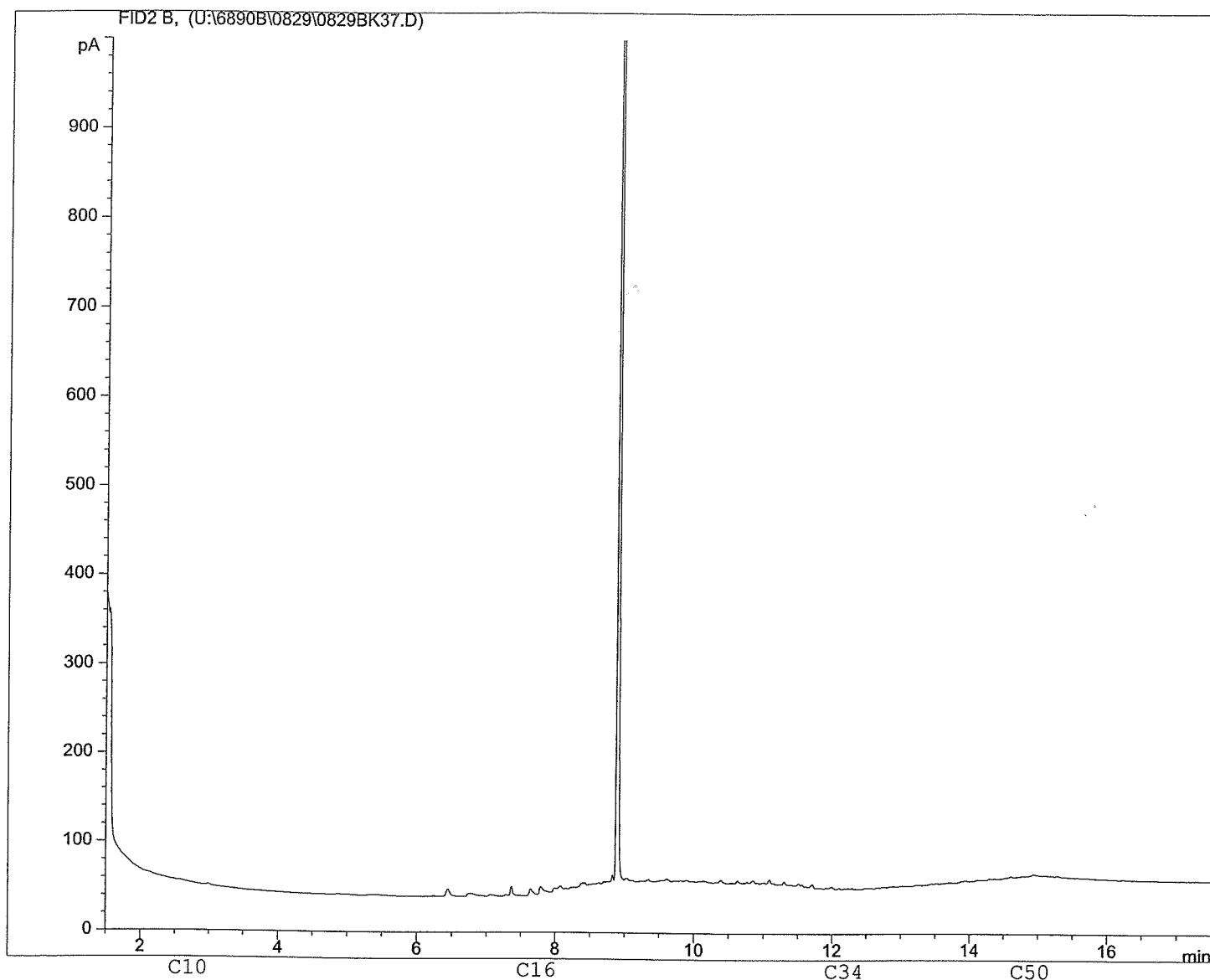
Sample ID: L309982-44 4

Injection Date: 8/30/05 7:35:35 AM

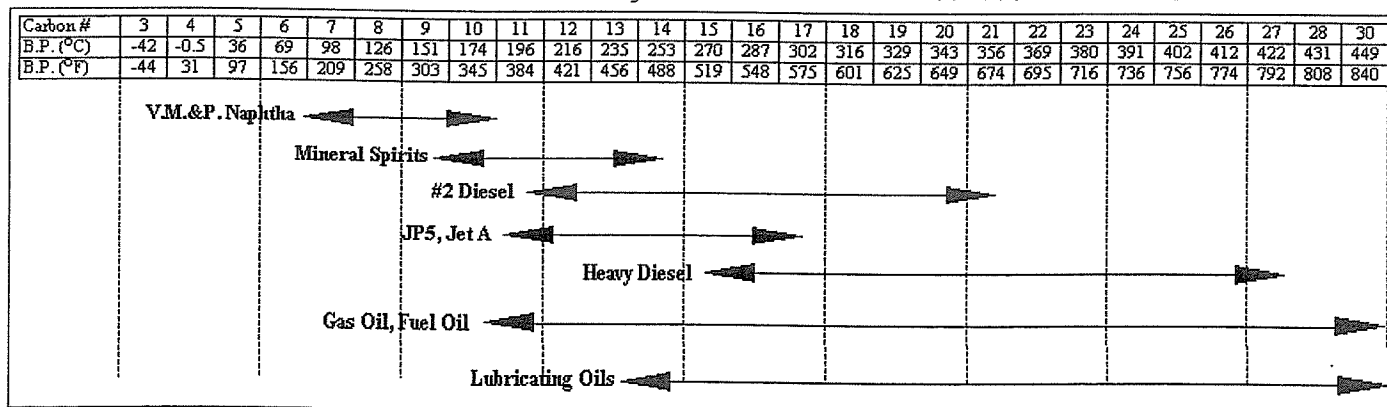
Instrument: 6890



Total Extractable Hydrocarbons



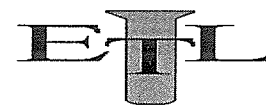
Boiling Point Distribution Range of Petroleum Based Fuel Products



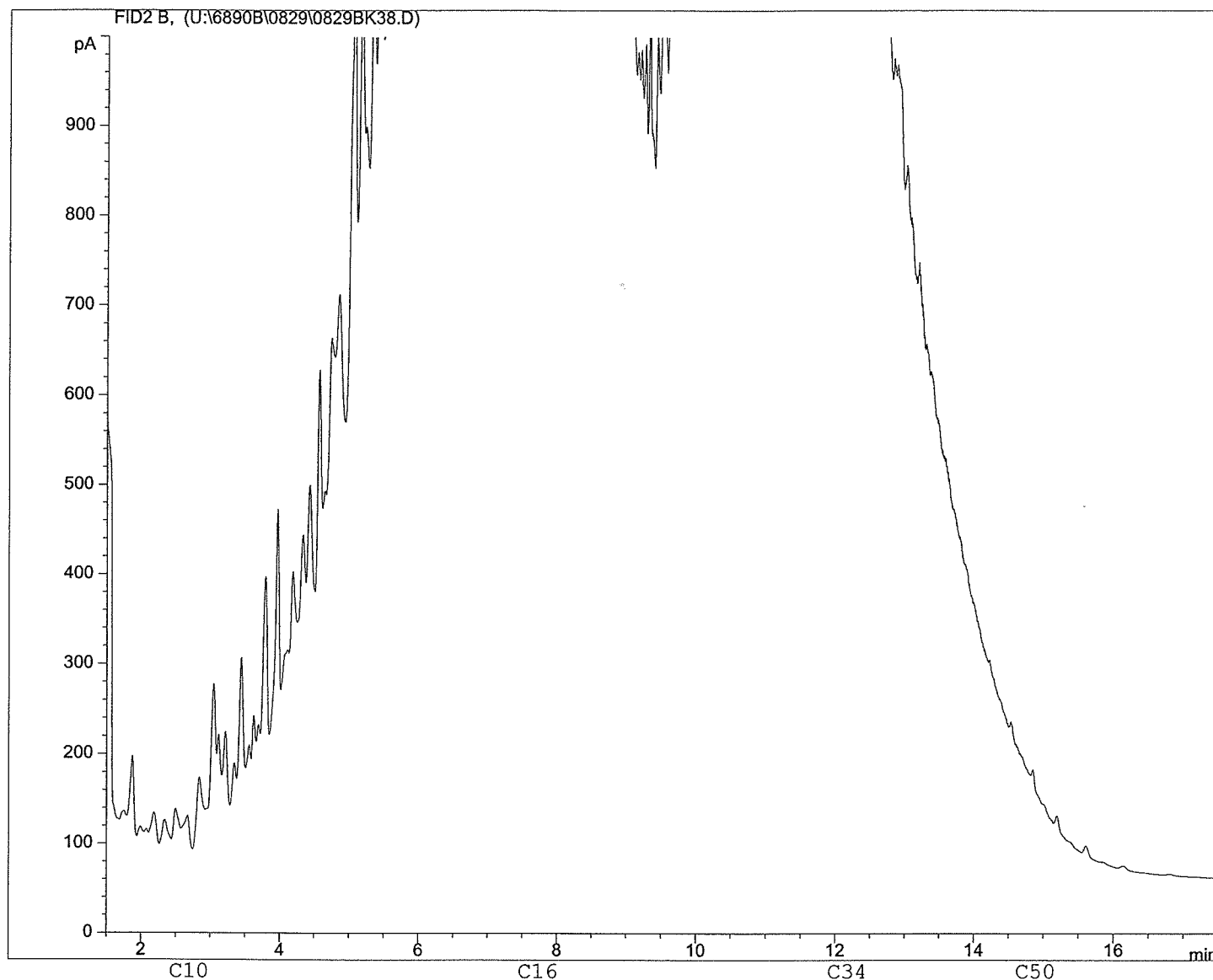
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1164 ROBERTS BAY

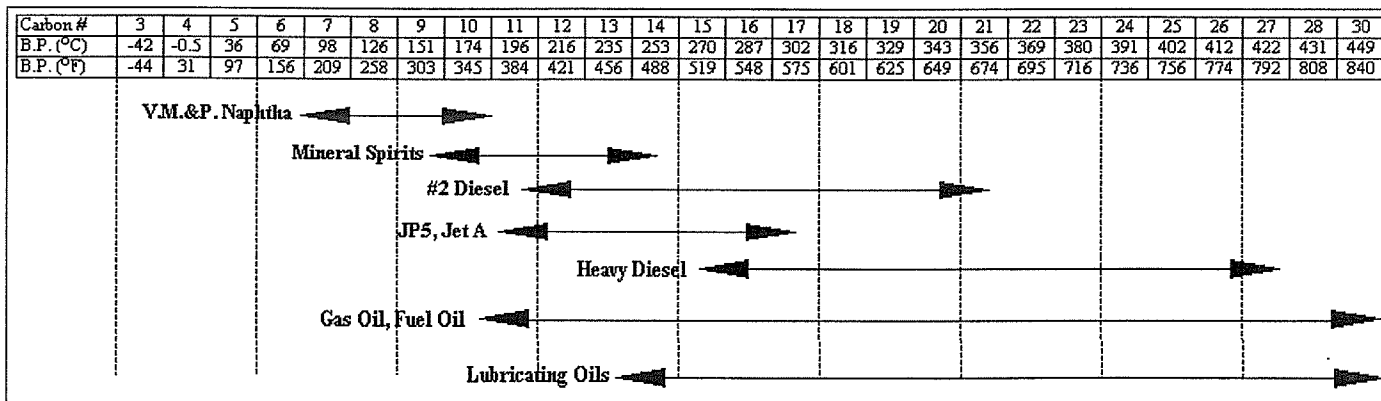
Sample ID: L309982-45 4
Injection Date: 8/30/05 8:01:25 AM
Instrument: 6890



Total Extractable Hydrocarbons



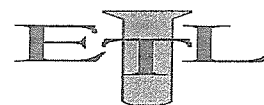
Boiling Point Distribution Range of Petroleum Based Fuel Products



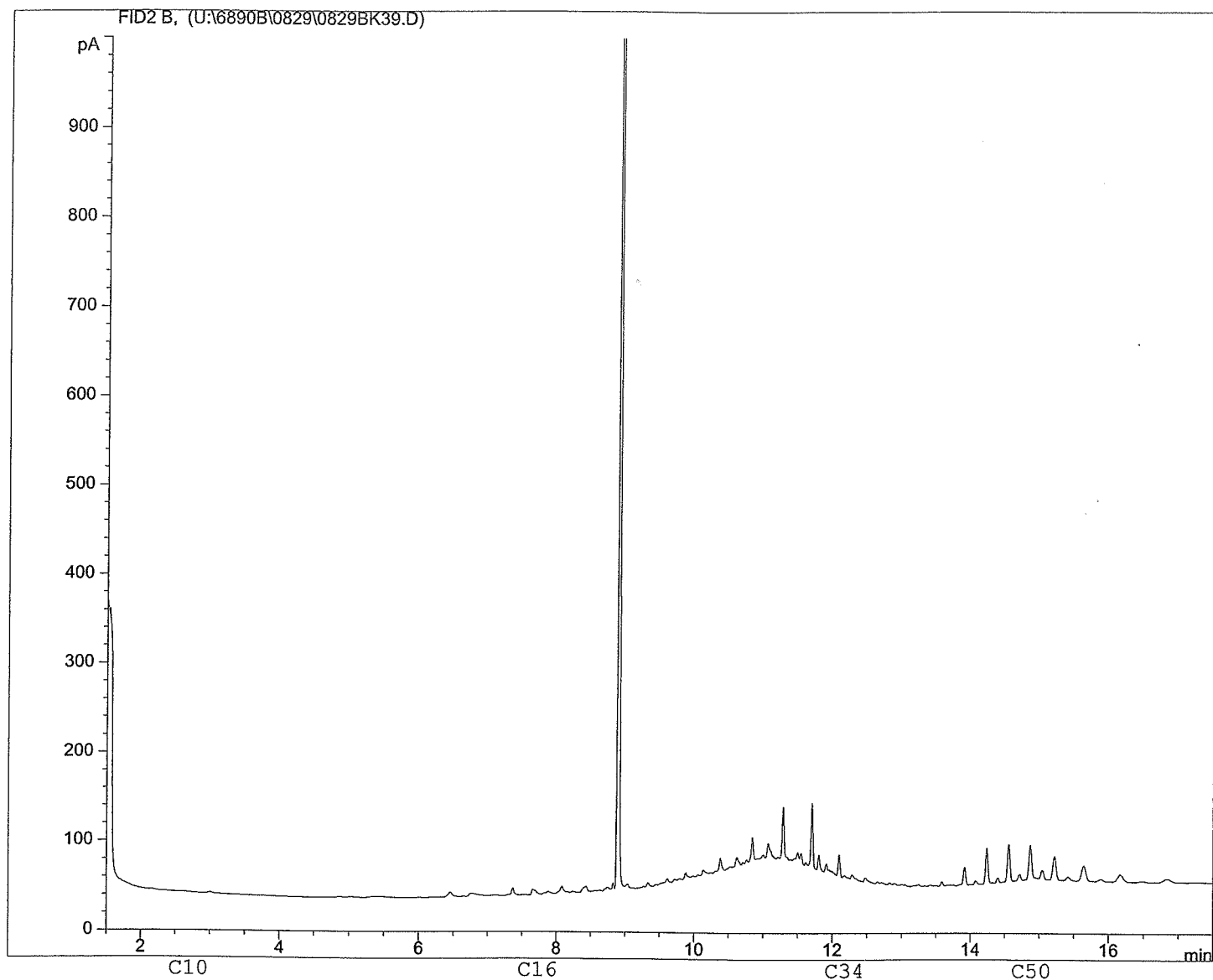
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1165 ROBERTS BAY

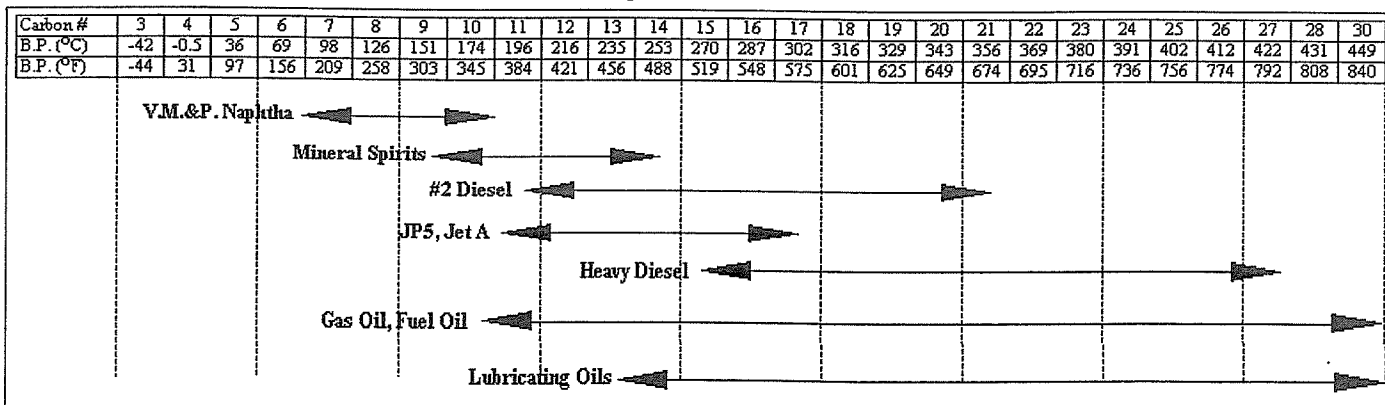
Sample ID: L309982-46 4
Injection Date: 8/30/05 8:27:17 AM
Instrument: 6890



Total Extractable Hydrocarbons



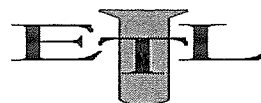
Boiling Point Distribution Range of Petroleum Based Fuel Products



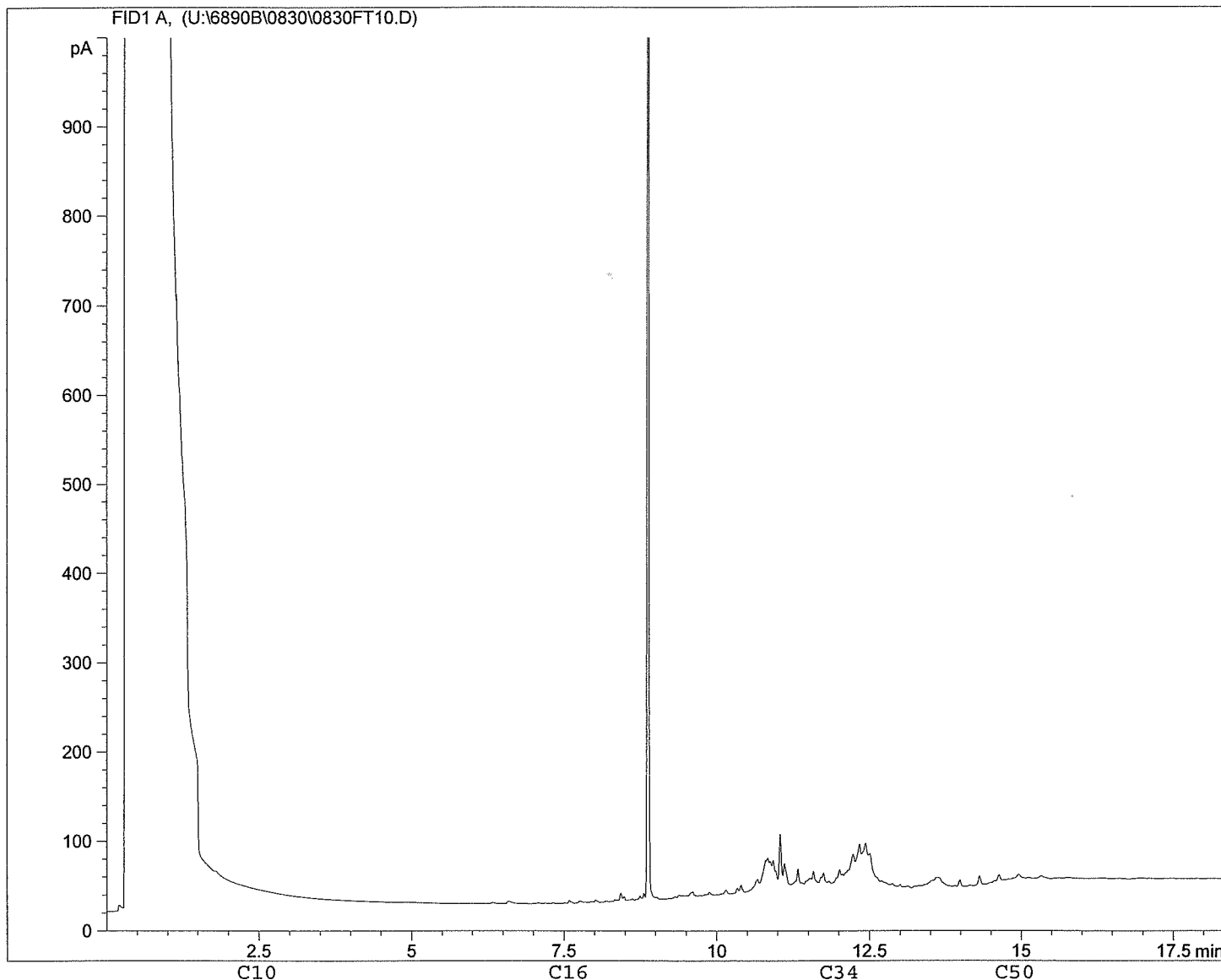
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1075 ROBERTS BAY

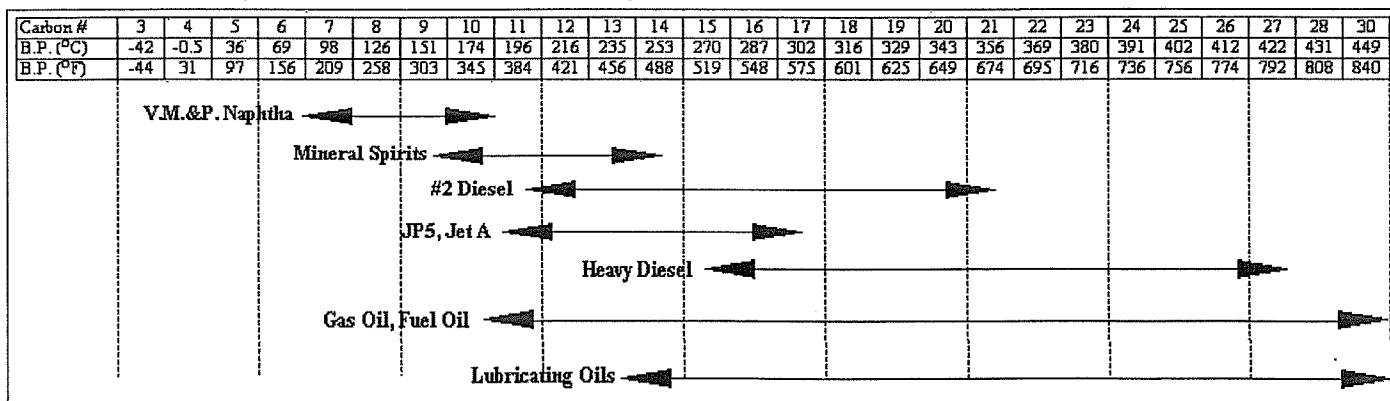
Sample ID: L309982-52 4
Injection Date: 8/30/05 9:31:48 PM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



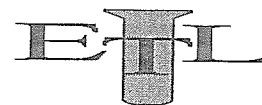
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1076 ROBERTS BAY

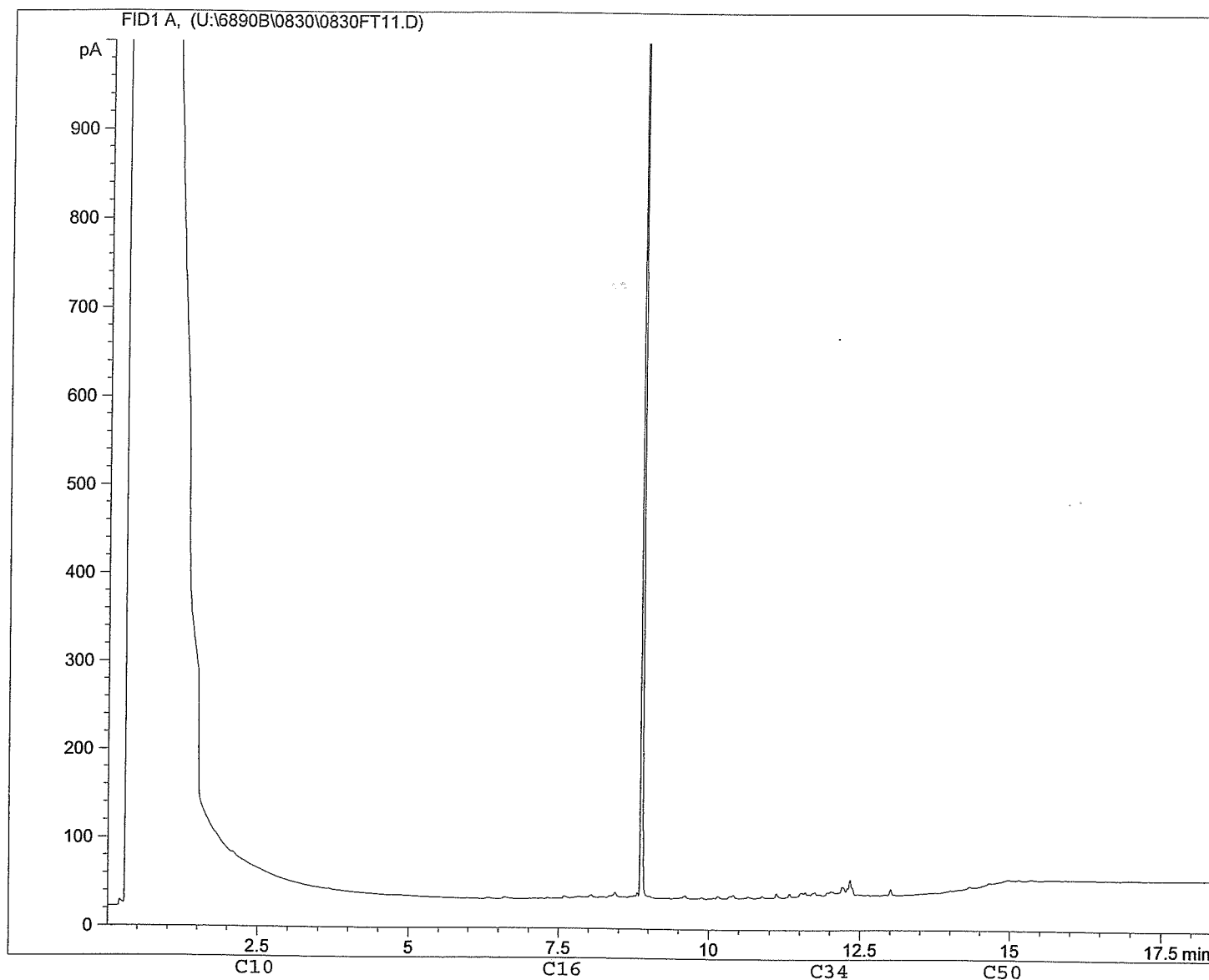
Sample ID: L309982-53 4

Injection Date: 8/30/05 9:57:55 PM

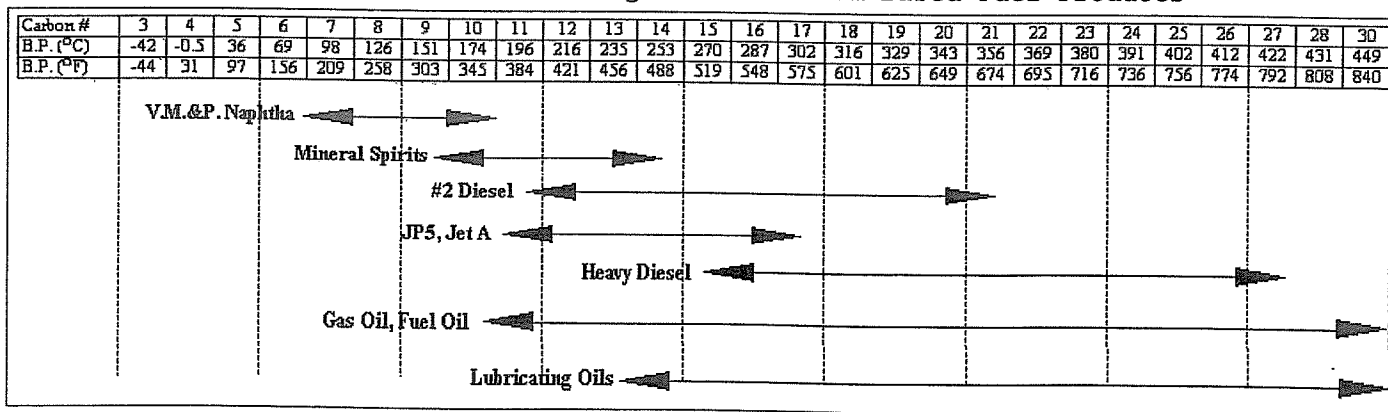
Instrument: 6890



Total Extractable Hydrocarbons



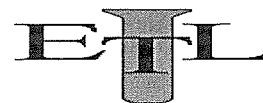
Boiling Point Distribution Range of Petroleum Based Fuel Products



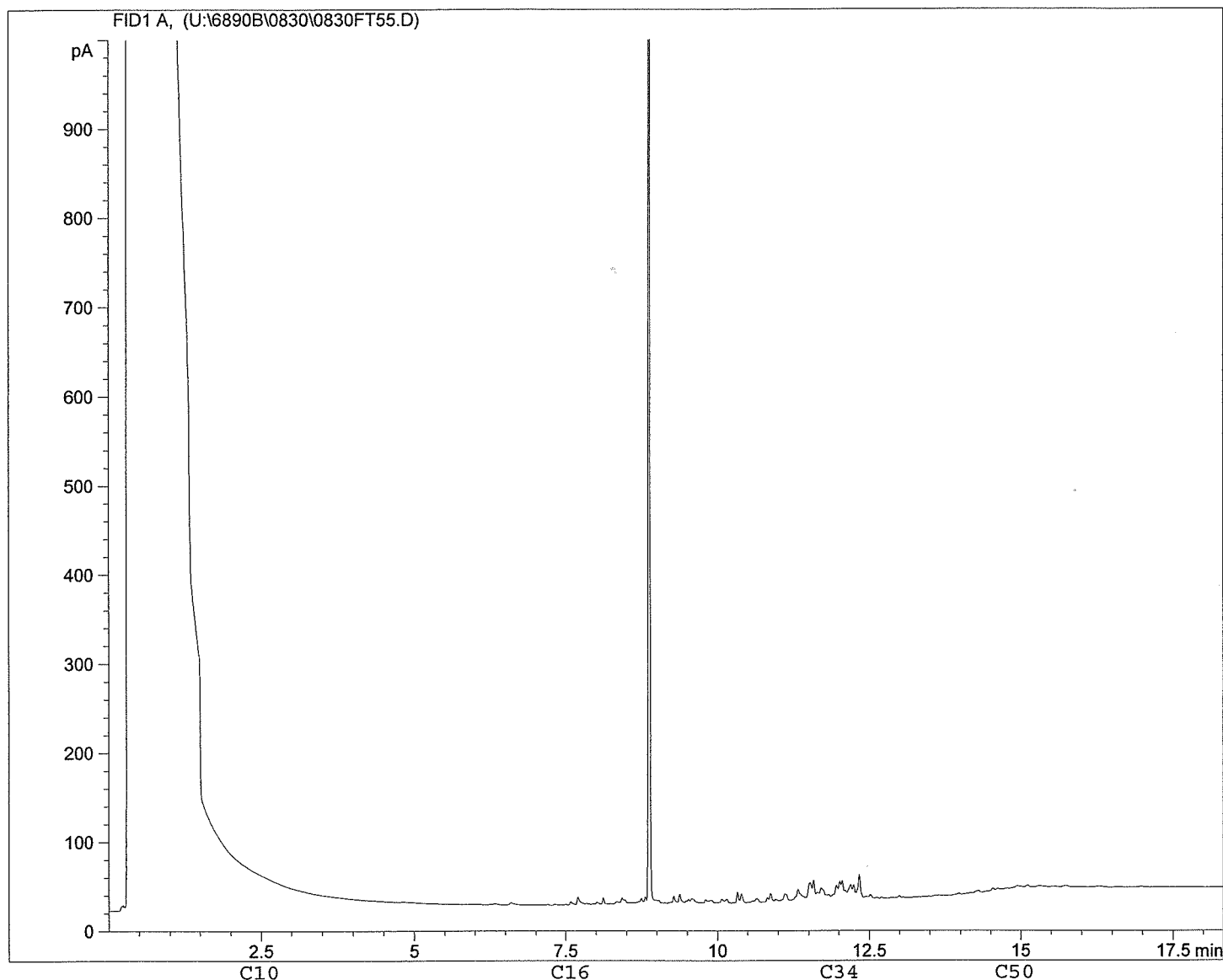
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1077 ROBERTS BAY

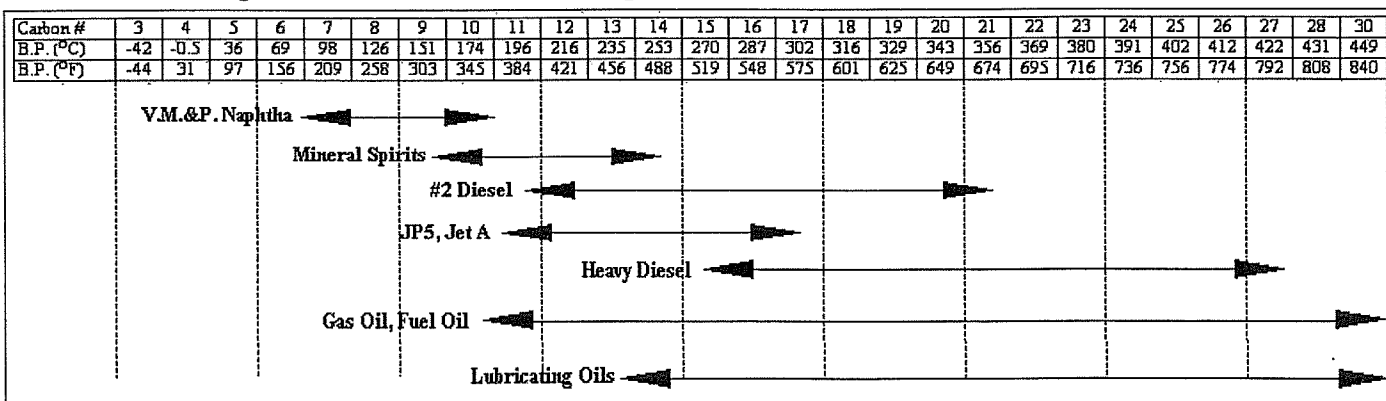
Sample ID: L309982-54 4
Injection Date: 8/31/05 5:10:26 PM
Instrument: 6890



Total Extractable Hydrocarbons



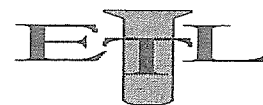
Boiling Point Distribution Range of Petroleum Based Fuel Products



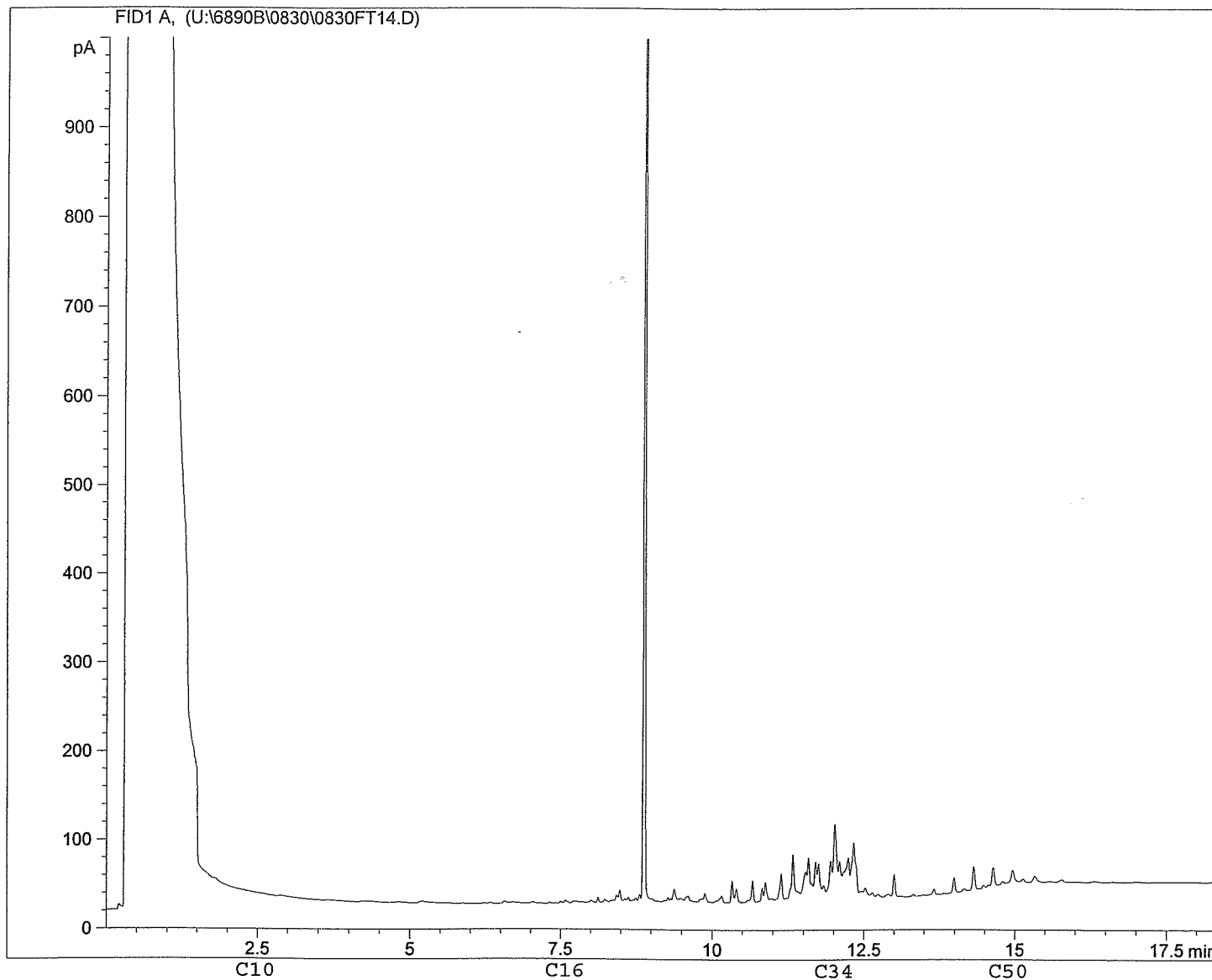
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1078 ROBERTS BAY

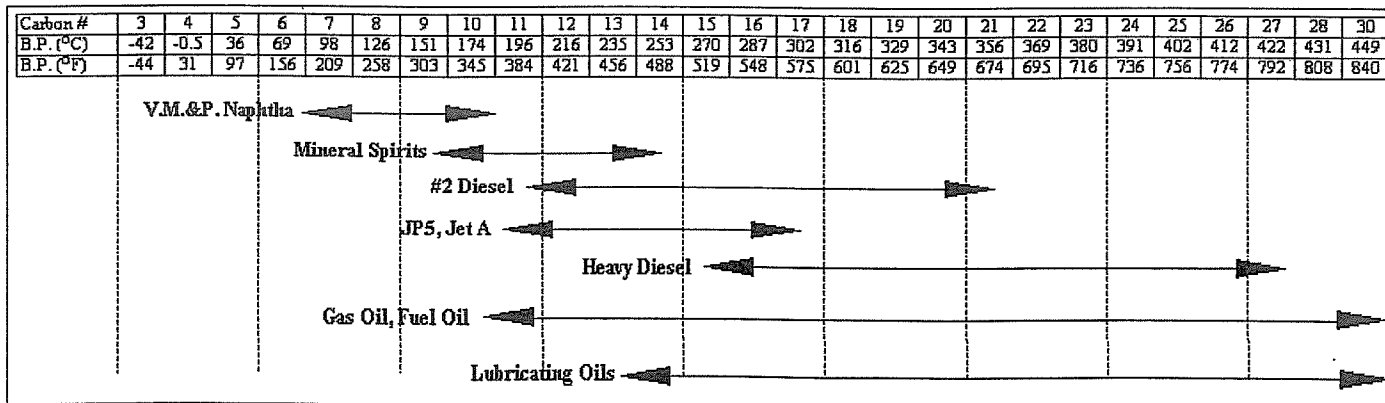
Sample ID: L309982-55 4
Injection Date: 8/30/05 11:16:22 PM
Instrument: 6890



Total Extractable Hydrocarbons



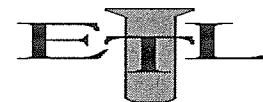
Boiling Point Distribution Range of Petroleum Based Fuel Products



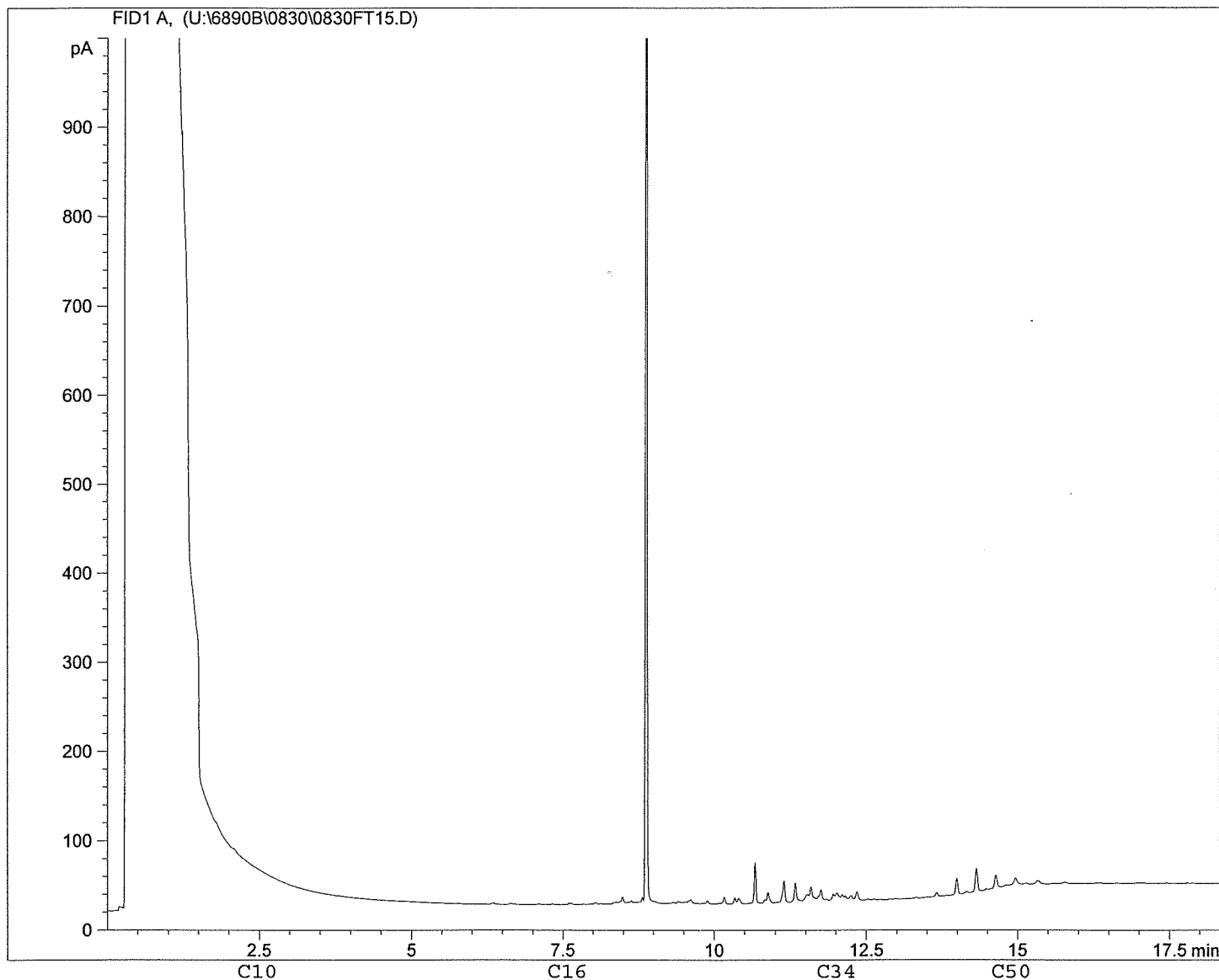
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1079 ROBERTS BAY

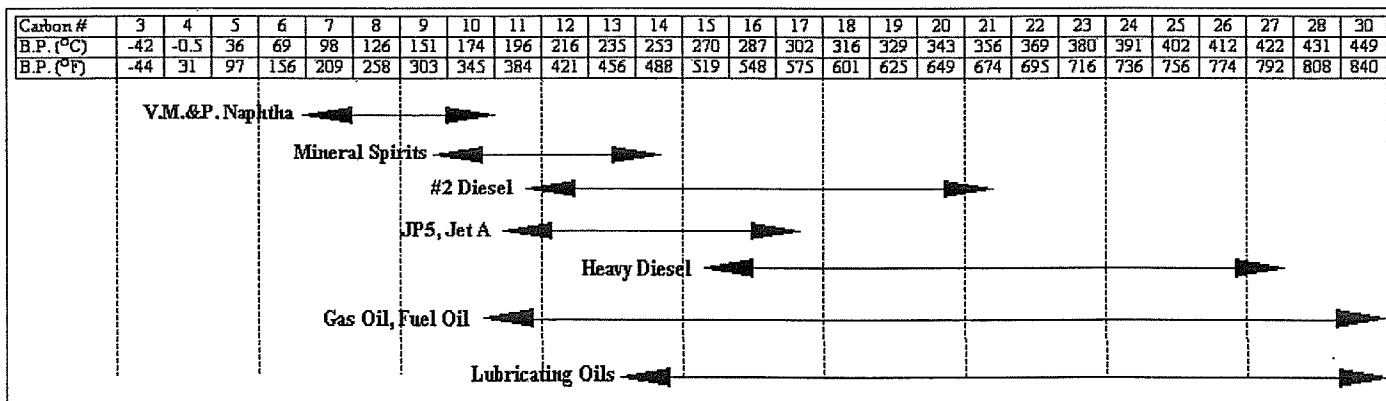
Sample ID: L309982-56 4
Injection Date: 8/30/05 11:42:25 PM
Instrument: 6890



Total Extractable Hydrocarbons



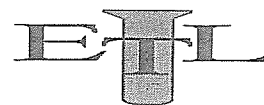
Boiling Point Distribution Range of Petroleum Based Fuel Products



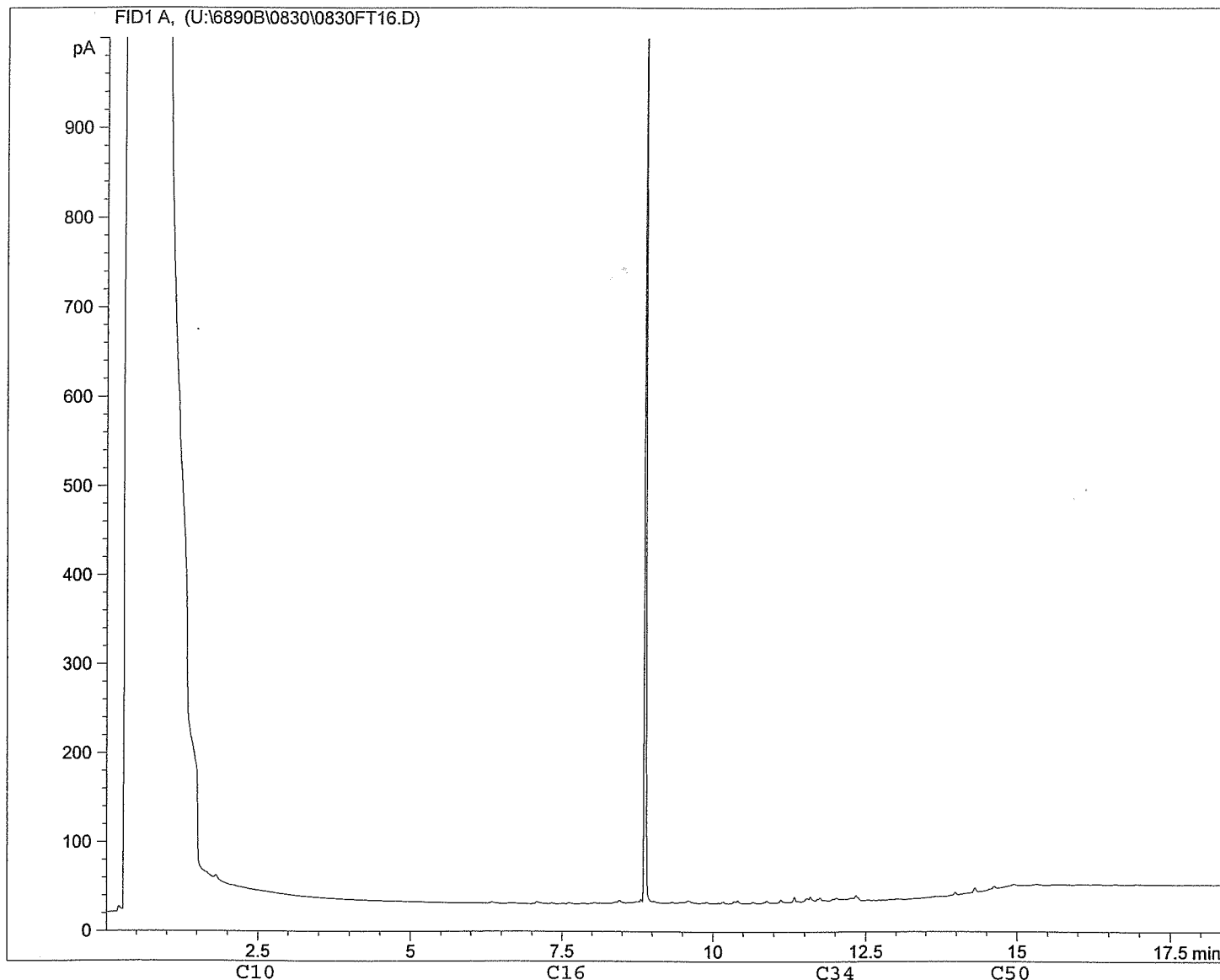
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1080 ROBERTS BAY

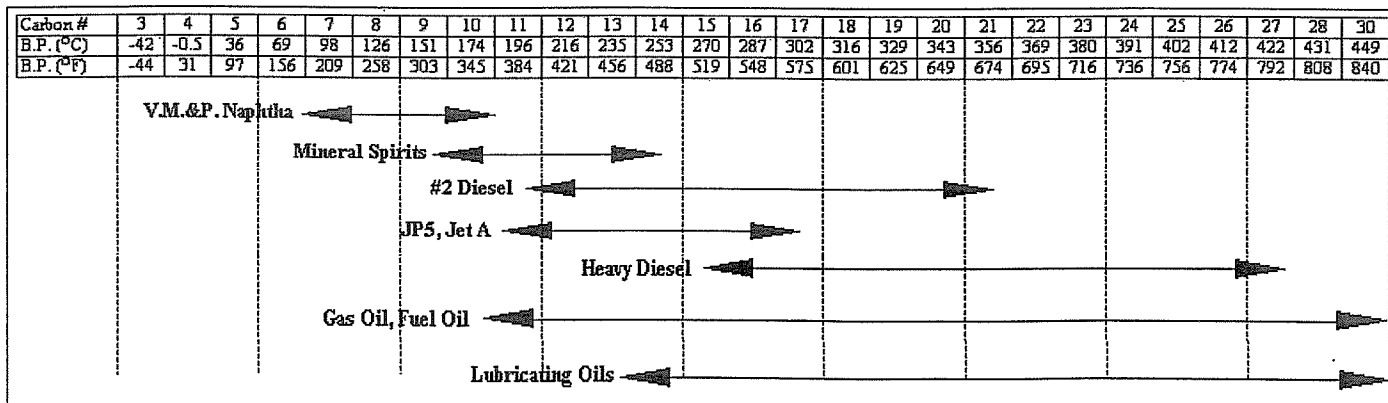
Sample ID: L309982-57 4
Injection Date: 8/31/05 12:08:40 AM
Instrument: 6890



Total Extractable Hydrocarbons



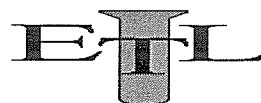
Boiling Point Distribution Range of Petroleum Based Fuel Products



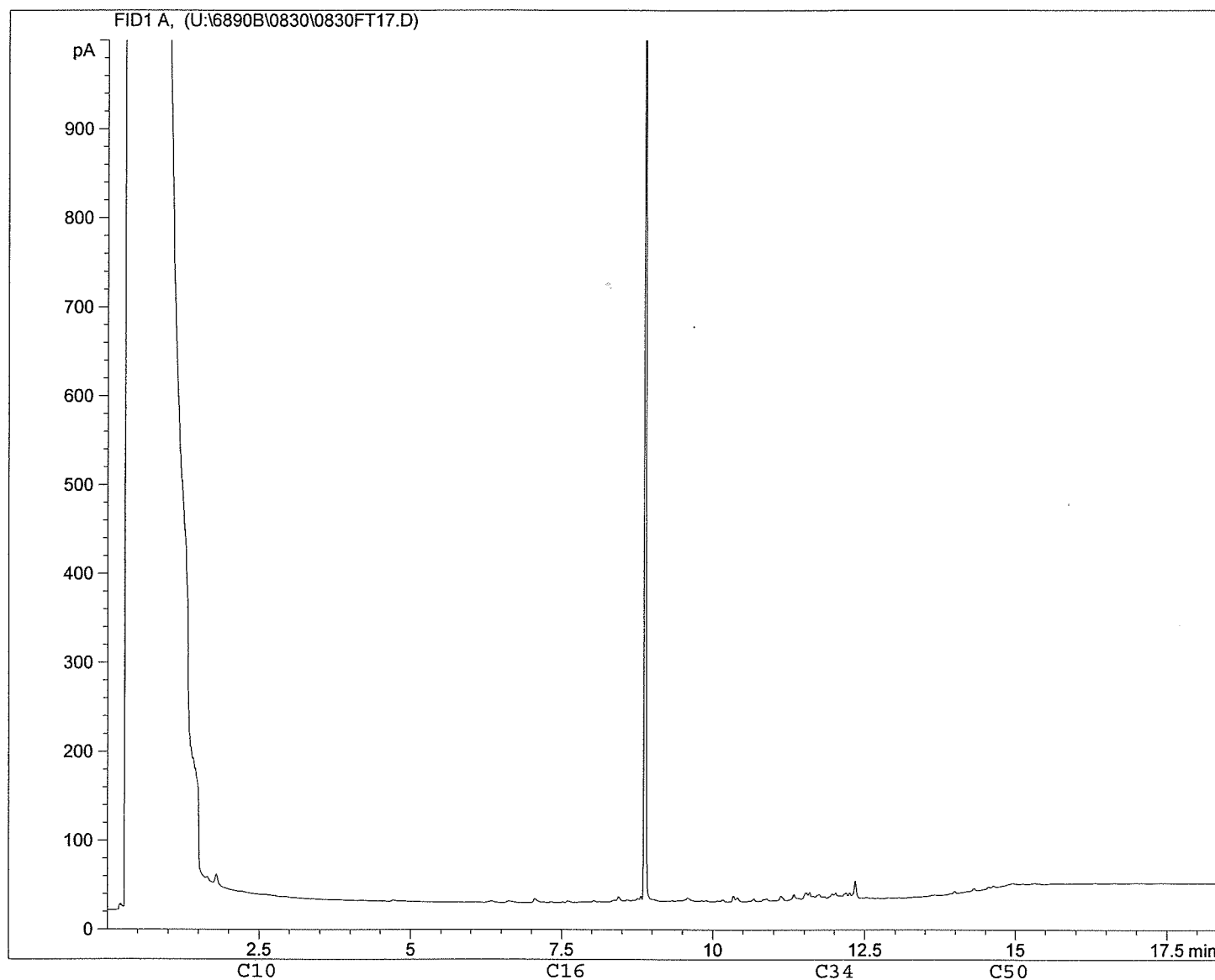
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1081 ROBERTS BAY

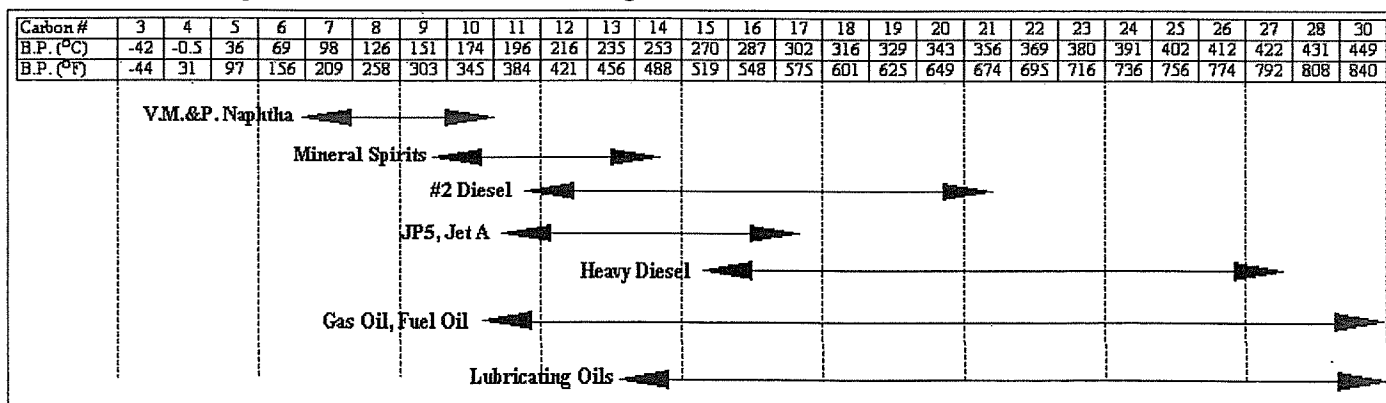
Sample ID: L309982-58 4
Injection Date: 8/31/05 12:34:39 AM
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



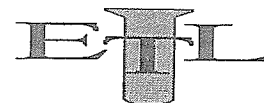
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1166 ROBERTS BAY

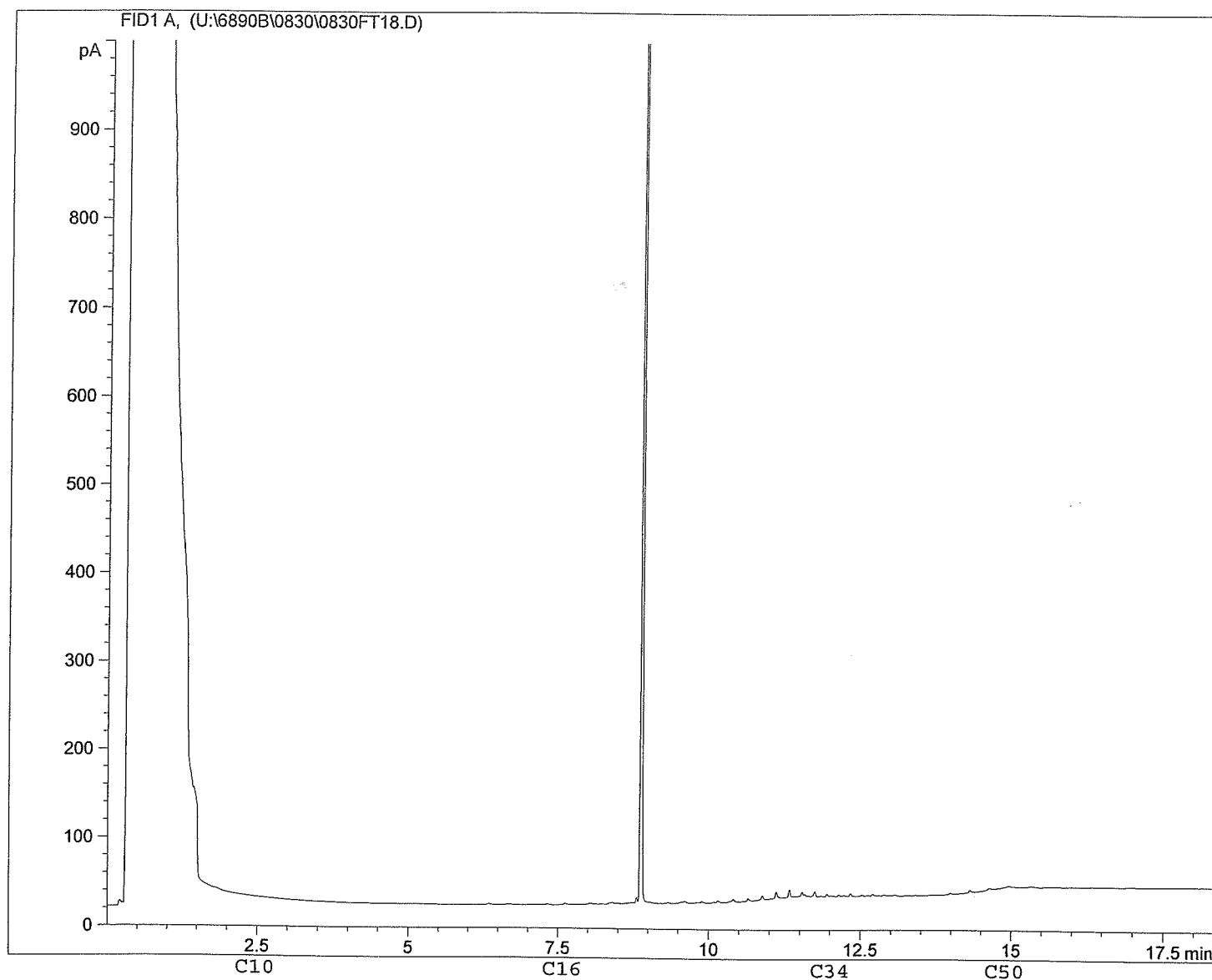
Sample ID: L309982-59 4

Injection Date: 8/31/05 1:00:37 AM

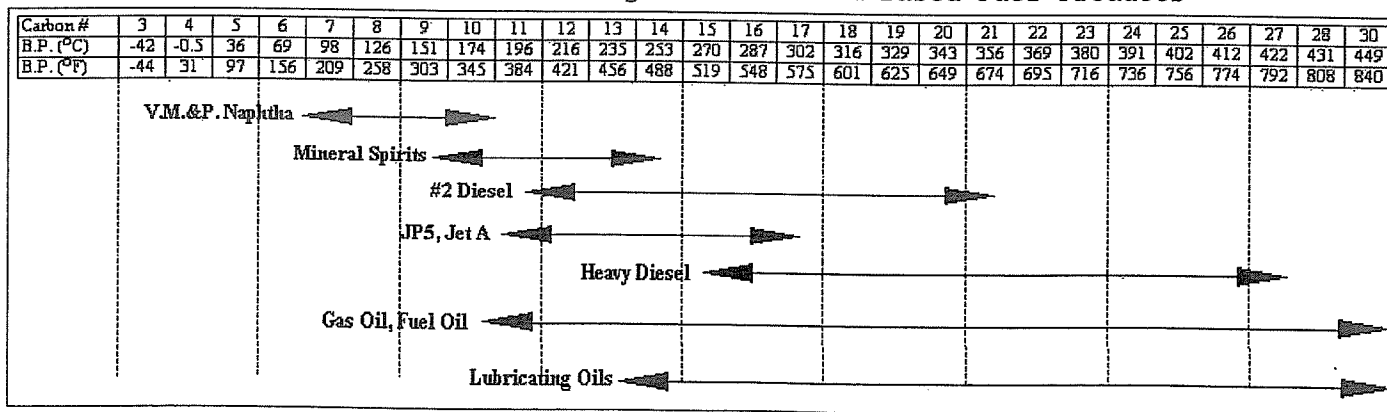
Instrument: 6890



Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID:

Sample ID:

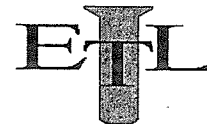
MB 4

Injection Date:

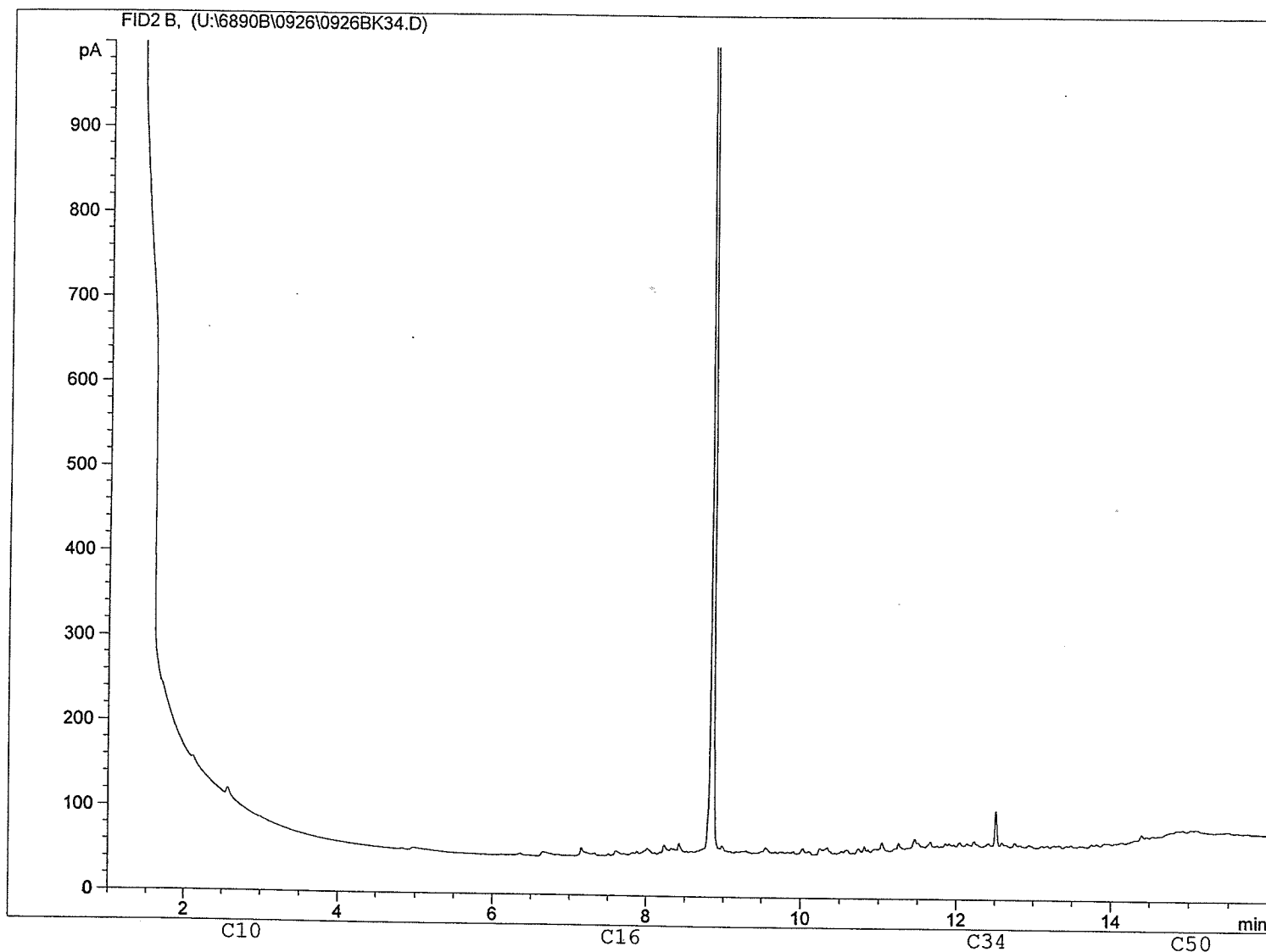
9/27/05 12:55:19 AM

Instrument ID:

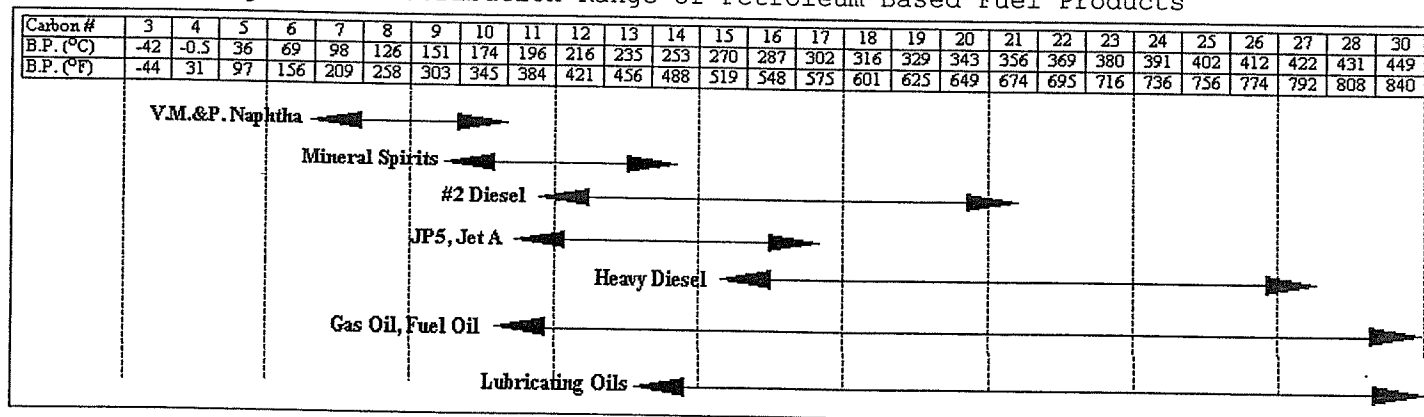
6890B



Total Extractable Hydrocarbons



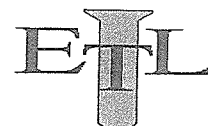
Boiling Point Distribution Range of Petroleum Based Fuel Products



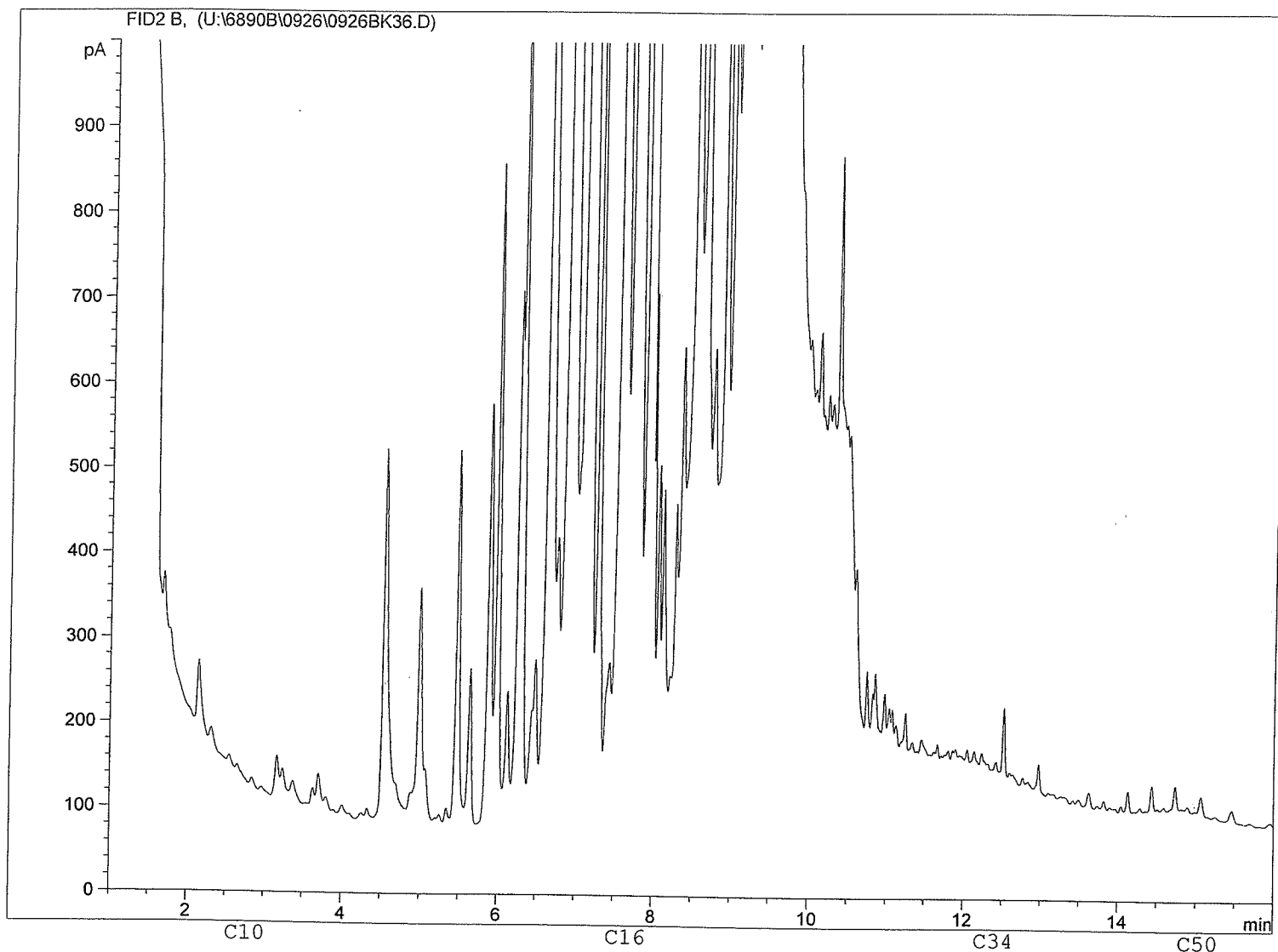
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1167 ROBERTS BAY

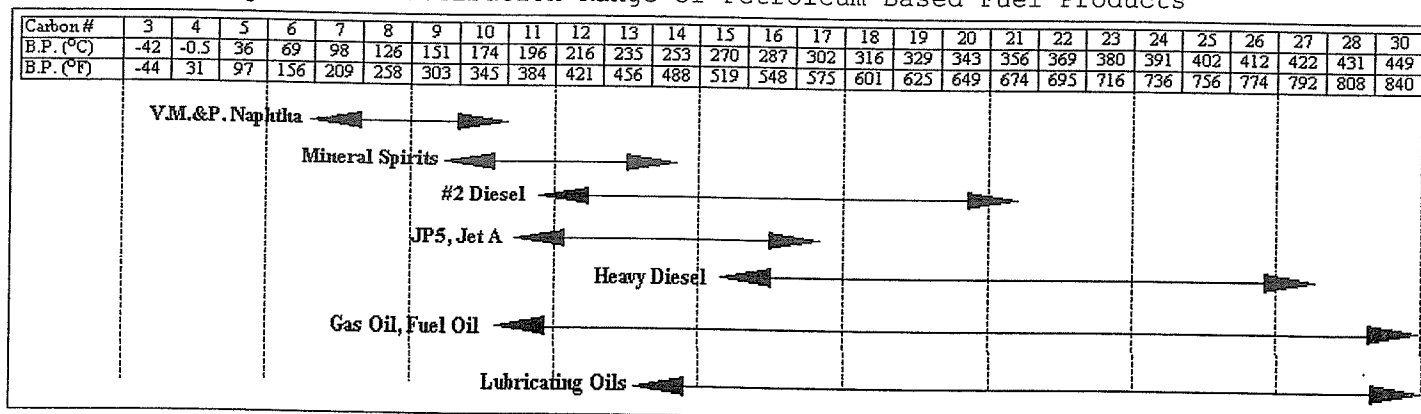
Sample ID: L309982-62 4
Injection Date: 9/27/05 1:47:47 AM
Instrument ID: 6890B



Total Extractable Hydrocarbons



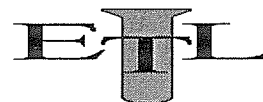
Boiling Point Distribution Range of Petroleum Based Fuel Products



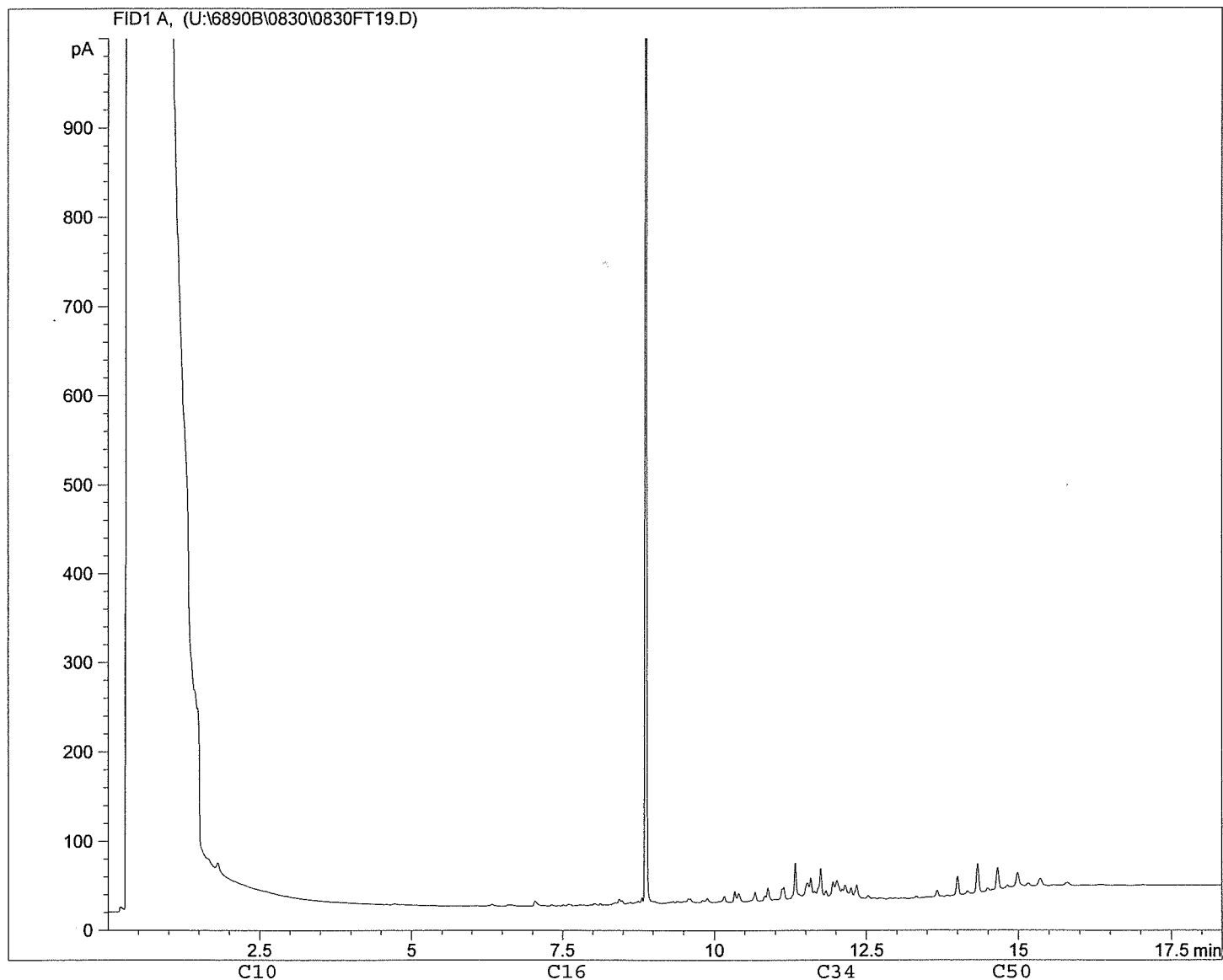
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1169 ROBERTS BAY

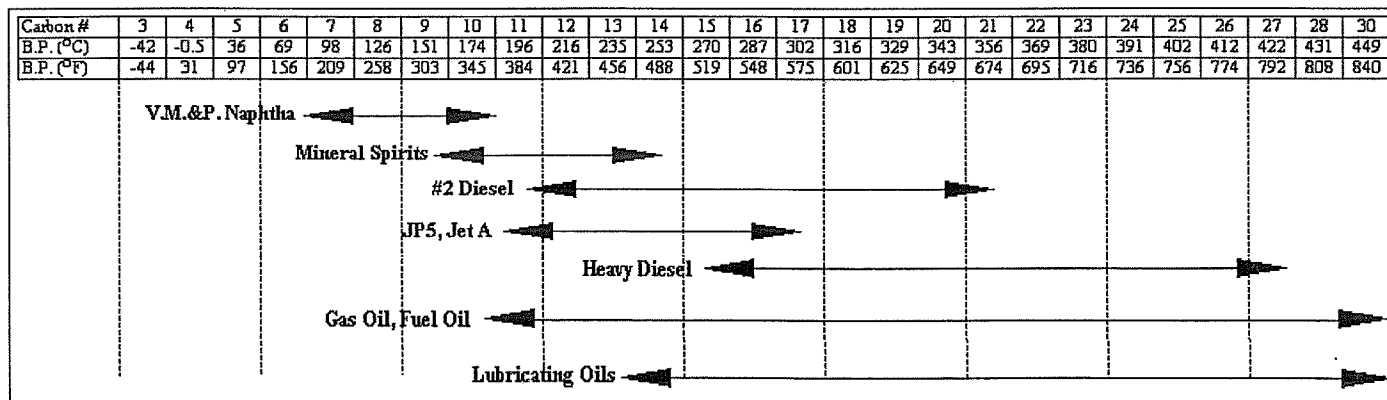
Sample ID: L309982-63 4
Injection Date: 8/31/05 1:27:13 AM
Instrument: 6890



Total Extractable Hydrocarbons



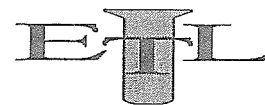
Boiling Point Distribution Range of Petroleum Based Fuel Products



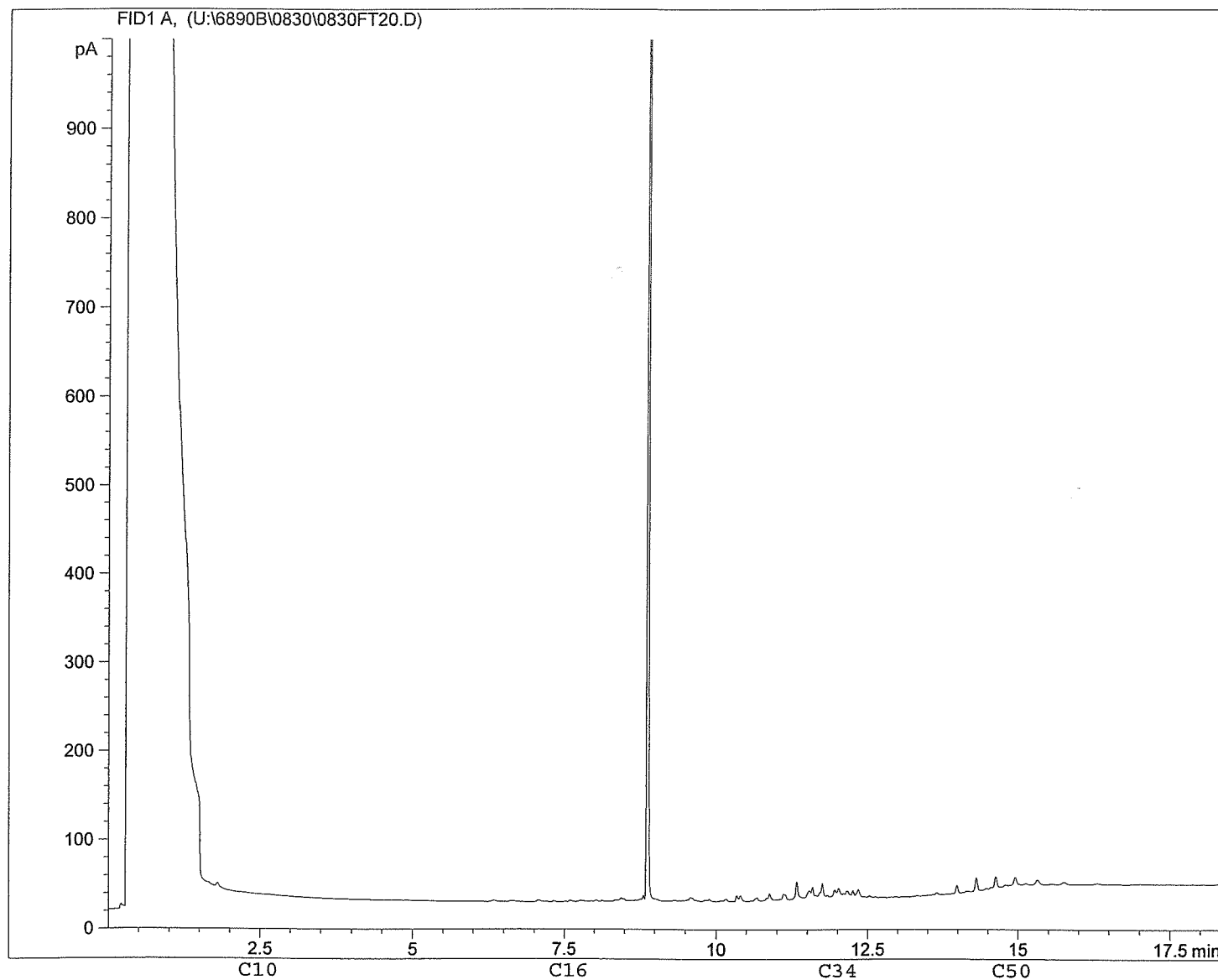
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: ET-1170 ROBERTS BAY

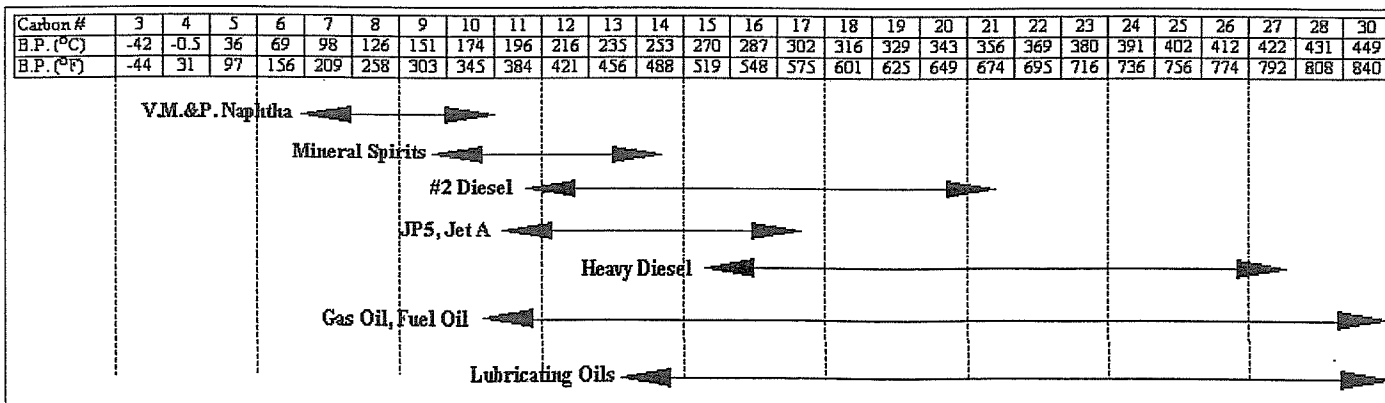
Sample ID: L309982-65 4
Injection Date: 8/31/05 1:53:10 AM
Instrument: 6890



Total Extractable Hydrocarbons

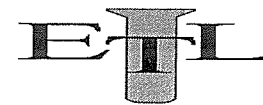


Boiling Point Distribution Range of Petroleum Based Fuel Products

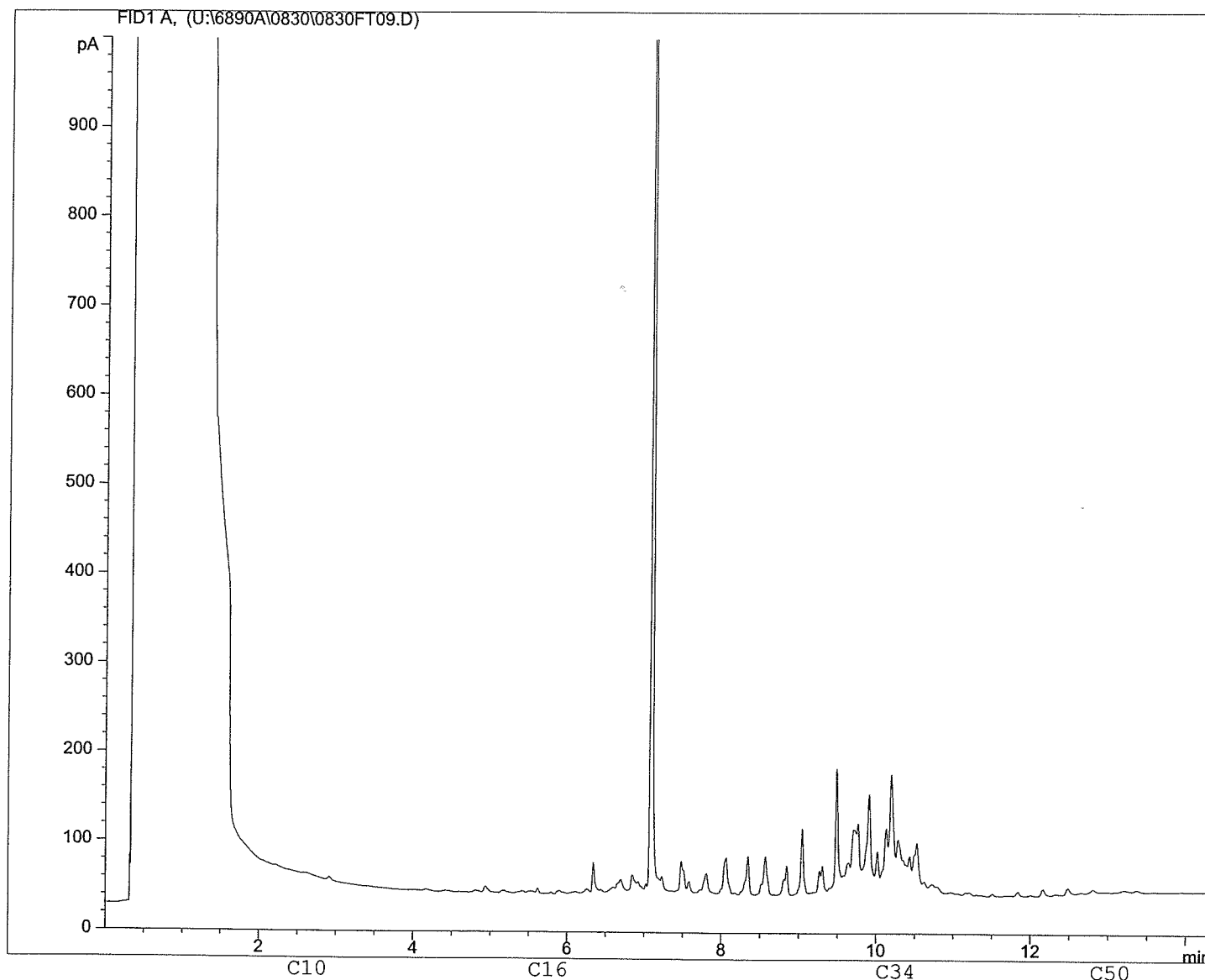


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

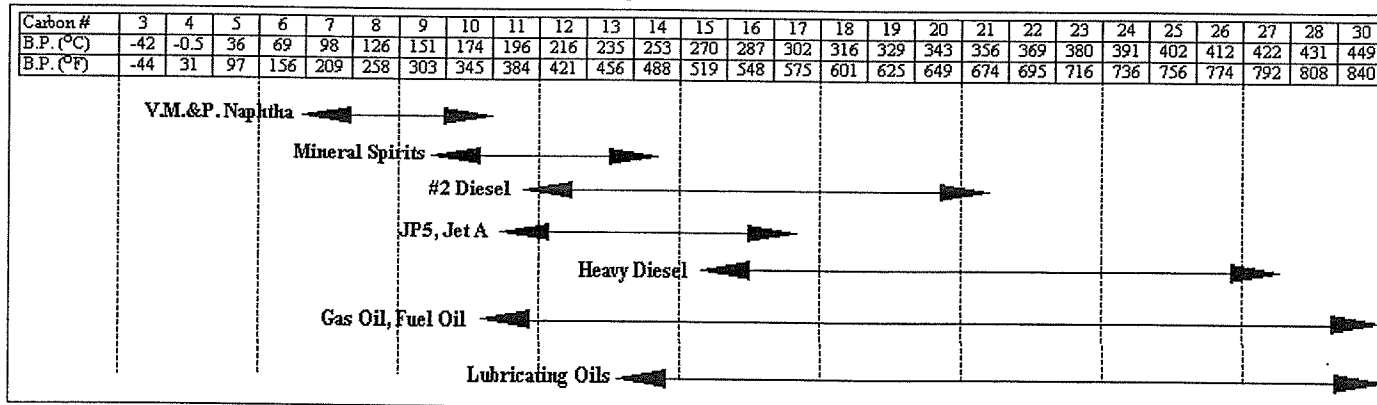
Client ID: ET-1182 ROBERTS BAY
Sample ID: L309982-67 4
Injection Date: 8/30/2005 6:53:19 PM
Instrument: 6890



Total Extractable Hydrocarbons

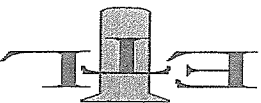


Boiling Point Distribution Range of Petroleum Based Fuel Products

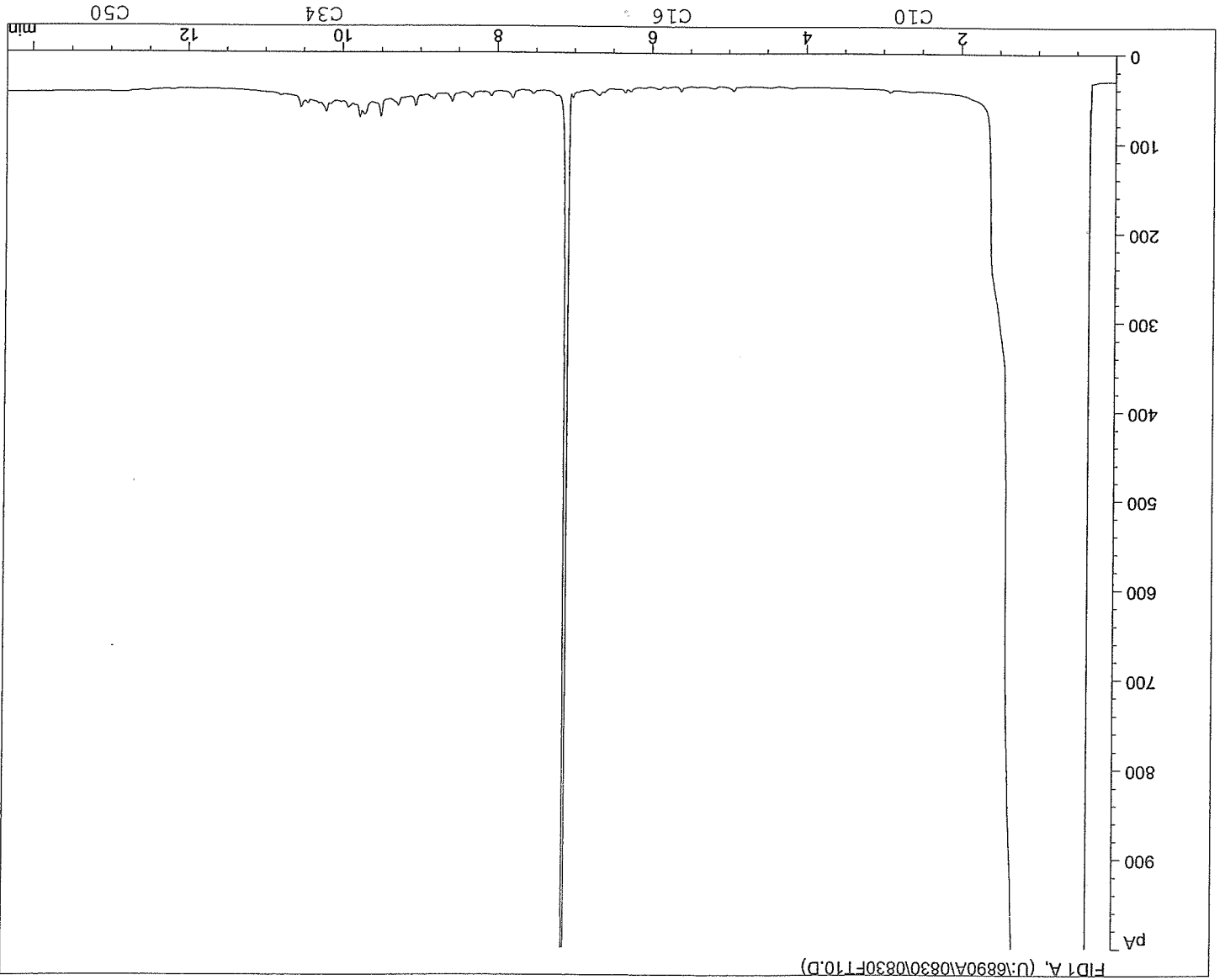


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

Client ID: IDA ADIT ROBERTS BAY
 Sample ID: L309982-68 4
 Injection Date: 8/30/2005 7:16:00 PM
 Instrument: 6890
 Total Extractable Hydrocarbons

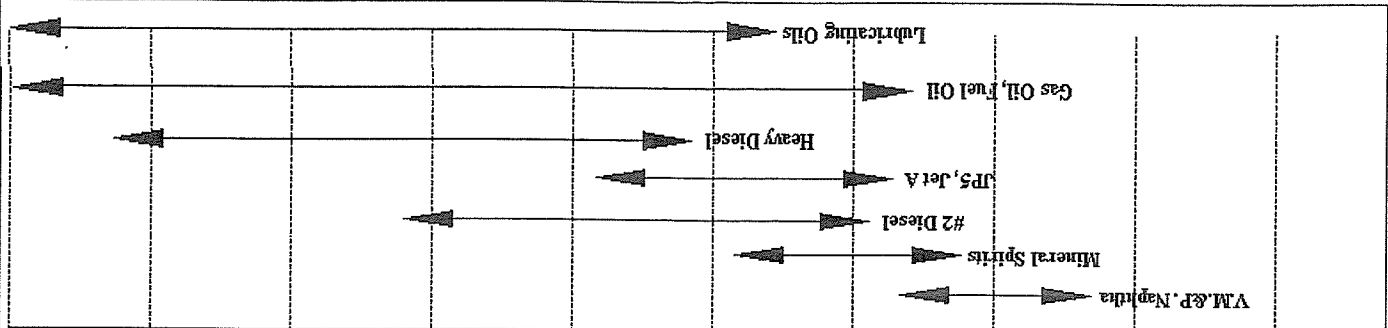


FID1 A, (U:\6890A\0830\0830F110.D)



Boiling Point Distribution Range of Petroleum Based Fuel Products

Carbon #	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	30
B.P. (°C)	-42	-0.5	36	69	98	126	151	174	196	216	235	253	270	287	302	316	329	343	356	369	380	391	402	412	422	431	449
B.P. (°F)	-44	31	97	156	209	258	303	345	384	421	456	488	519	548	575	601	625	649	674	695	716	736	756	774	792	808	840



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989; p XVIII

Client ID:

Sample ID:

MB 4

Injection Date:

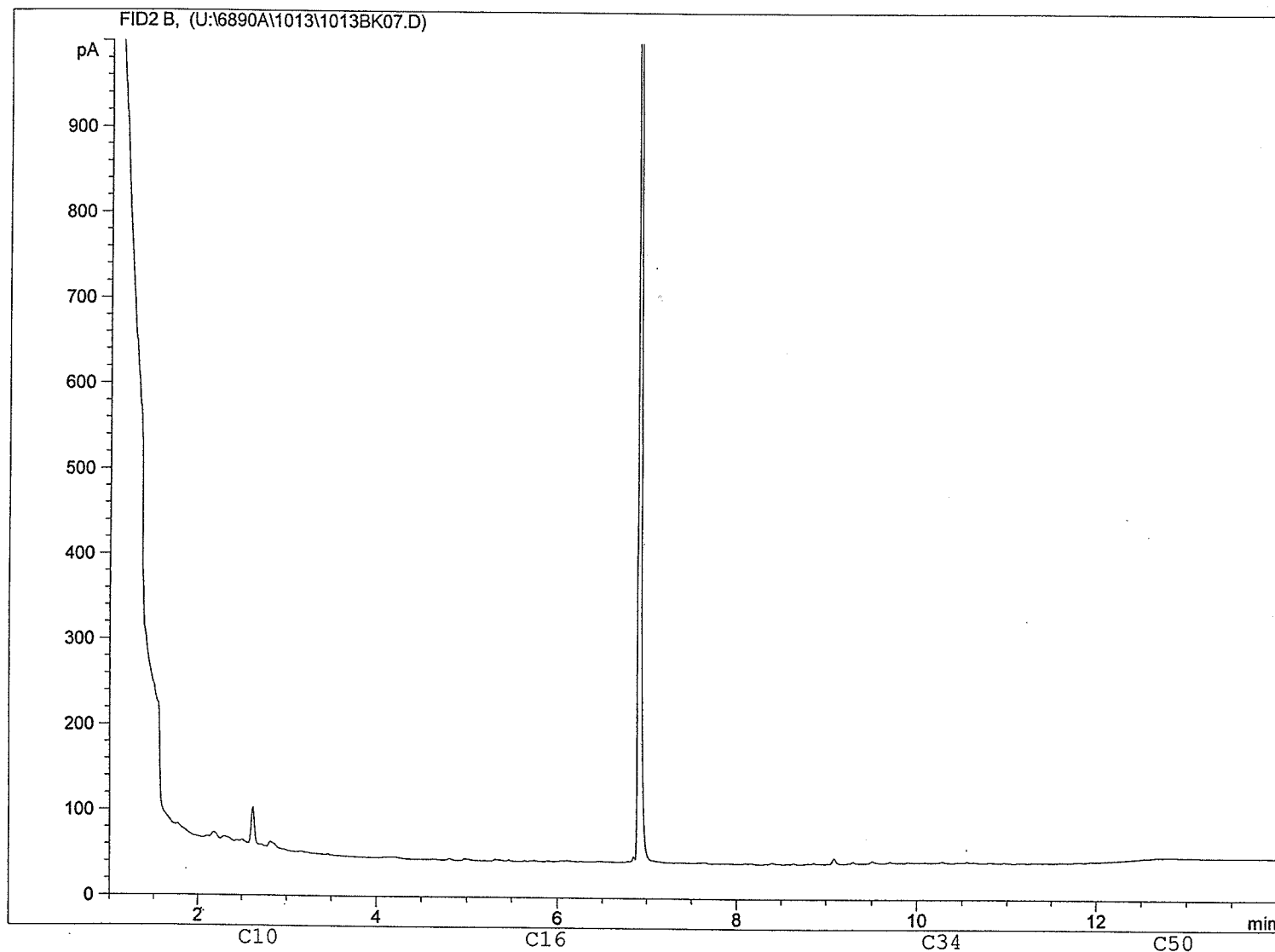
10/13/2005 7:54:20 PM

Instrument ID:

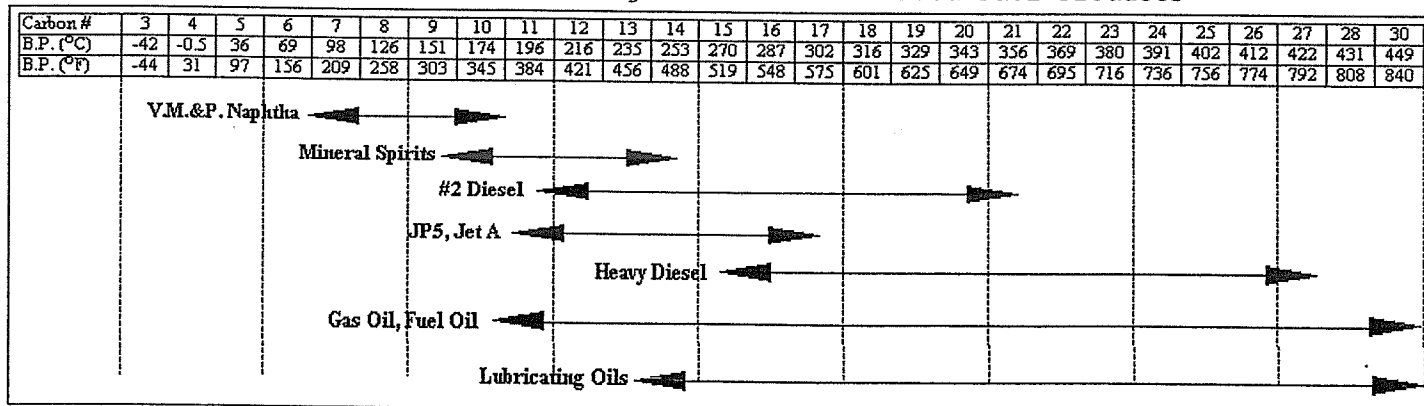
6890A



Total Extractable Hydrocarbons

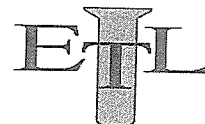


Boiling Point Distribution Range of Petroleum Based Fuel Products

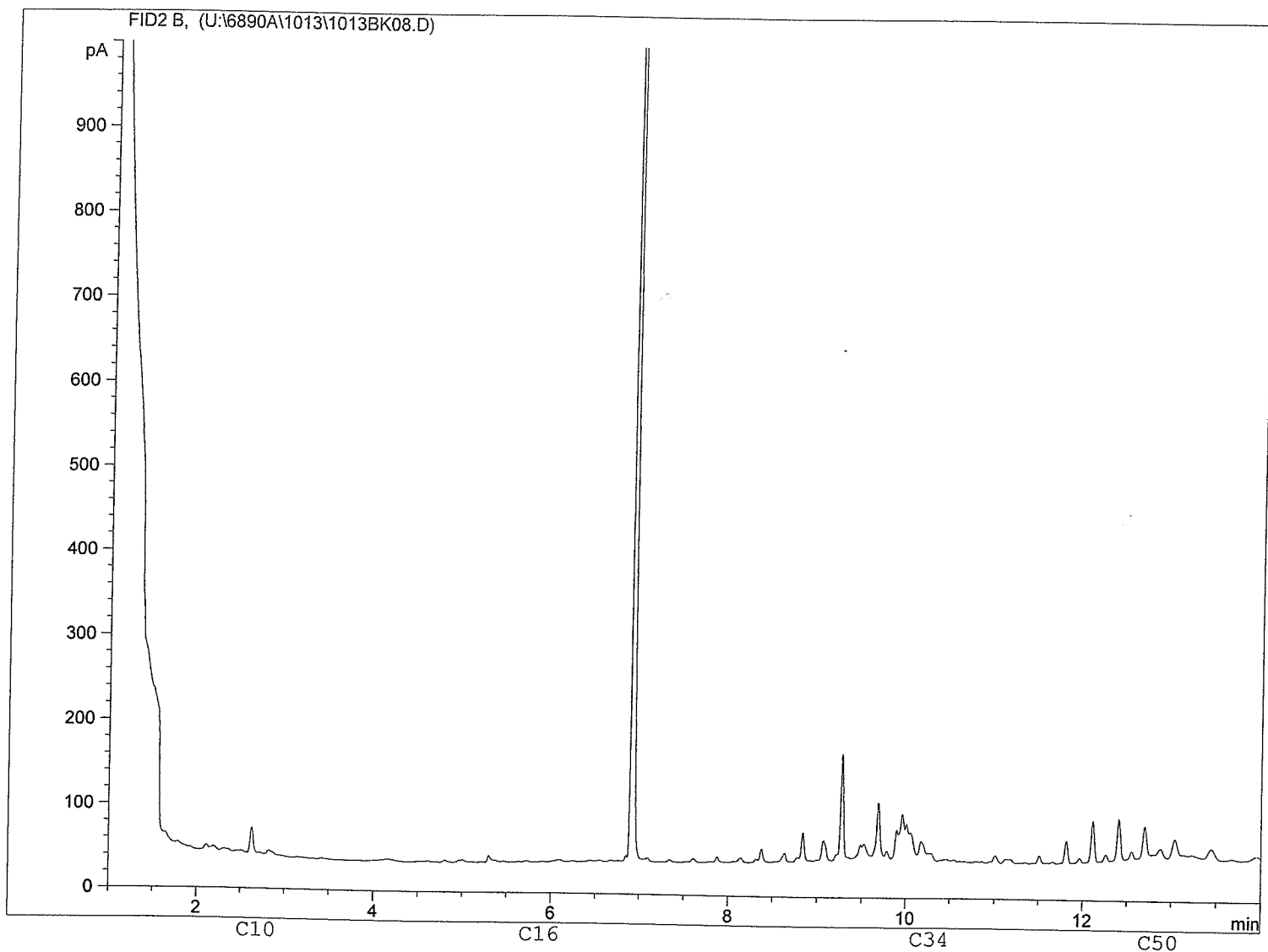


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

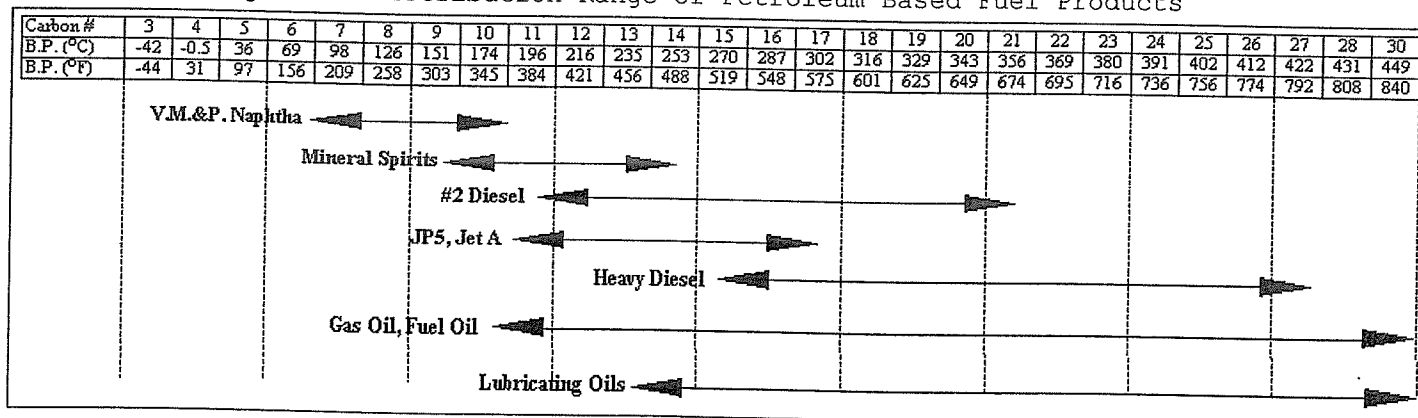
Client ID: ET-1069 ROBERTS BAY
Sample ID: L309982-73 4
Injection Date: 10/13/2005 8:16:23 PM
Instrument ID: 6890A



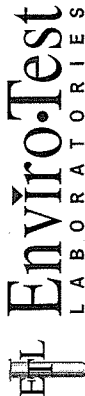
Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII



CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
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WWW.ENVIROTEST.LAB.COM

COC # 216647

Pg. 1 of 2

32502325-03003

REPORT TO:		LAB WORK ORDER #		
COMPANY: Earth Tech	REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED			
CONTACT: Gordon Woollett	EMAIL: FAX:			
ADDRESS: Edmonton	EMAIL 1:	REGULAR SERVICE (DEFAULT)		
PHONE: 453-0710	EMAIL 2:	PRIORITY SERVICE (50% SURCHARGE)		
CITY: Edmonton	DIGITAL EMAIL:	EMERGENCY SERVICE (100% SURCHARGE)		
CELLPHONE:	SELECT: pdf digital both	ANALYSIS REQUEST		
INVOICE TO: SAME Y/N	INDICATE BOTTLES: FILTERED/PRESERVED (F/P)	HAZARDOUS ?		
COMPANY: PWGSC	JOB #	NUMBER OF CONTAINERS		
CONTACT: MEGAN GAMBLE	PO/AFE:	HIGHLY CONTAMINATED ?		
ADDRESS:	LSD:	LAB SAMPLE #		
PHONE:	QUOTE #			
SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE
Stream Mouth	Robert Bay	Aug 20/05	grab	Water
SW-01	✓			
SW-02	✓			
SW-03	✓			
DW Lake	✓			
N Bladder	✓			
Robert Lake	✓			
Robert Lake Background	✓			
Tip Bluff	✓			
SAMPLE CONDITION				
FROZEN COLD AMBIENT				
MEAN TEMPERATURE				
Discolored Metal Sample has not been preserved or Filtered - Please Filter				
Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.				
RELINQUISHED BY: [Signature]	DATE & TIME: 8/24/05	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

REPORT TO:		LAB WORK ORDER #	
COMPANY: EARTH TECH		REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED	
CONTACT: GORDAN WOOLLETT		REGULAR SERVICE (DEFAULT)	
ADDRESS: 17203-103 AVE		PRIORITY SERVICE (50% SURCHARGE)	
EDMONTON		EMERGENCY SERVICE (100% SURCHARGE)	
PHONE: 453-0710 FAX: 488-2171		DIGITAL EMAIL:	
CELLPHONE:		SELECT: pdf digital both	
INVOICE TO: SAMEY (N)		INDICATE BOTTLES: FILTERED/PRESERVED (F/P)	
COMPANY: PWGSC		JOB # ROBERTS Bay	
CONTACT: MEGAN GAMBLE		PO/AFE: F0211-023196/004/EDM	
ADDRESS: 5th floor 10025 JASPER AVE		LSD:	
Edmonton		QUOTE #	
PHONE: 497-3753 FAX: 497-3976		SAMPLED BY / DATE / TIME	
SAMPLE ID	SAMPLING LOCATION	SAMPLING METHOD	SAMPLE TYPE
Rob LK 01	SEDIMENTS	GRAV	2 Jars 1 Bag
Rob LK 02	✓	✓	✓
Rob LK 03	✓	✓	✓
Rob LK 04	✓	✓	1 Bag
Rob LK MED	✓	✓	2 Jars 1 Bag
Rob LK BKND	✓	✓	2 Jars 1 Bag
IDR 01	✓	✓	✓
IDR 02	✓	✓	✓
IDR 03	✓	✓	✓
IDR 04	✓	✓	✓
HAZARDOUS ?		HAZARDOUS ?	
NUMBER OF CONTAINERS		HIGHLY CONTAMINATED ?	
LAB SAMPLE #			

SAMPLE CONDITION		
FROZEN	COLD	AMBIENT
MEAN TEMPERATURE		

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY: 	DATE & TIME: 8/24/05	RECEIVED BY:	DATE & TIME:
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:

REINQUISHED BY: 

REINQUISHED BY:

REPORT TO:		DATE: 8/22/05		LAB WORK ORDER #	
COMPANY: EARTH TECH Canada Inc.		REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE		REGULAR SERVICE (DEFAULT)	
CONTACT: Gordon Macoulet		EMAIL: FAX: MAILED		PRIORITY SERVICE (50% SURCHARGE)	
ADDRESS: 17203 A 103 Avenue		EMAIL 1: Gordon.Macoulet@earthtech.ca		EMERGENCY SERVICE (100% SURCHARGE)	
PHONE: 780 433 070 FAX: 780 468 2121		DIGITAL EMAIL:			
CELLPHONE:		SELECT: pdf digital both		ANALYSIS REQUEST	
INVOICE TO: SAME Y/N		INDICATE BOTTLES: FILTERED/PRESERVED (F/P)			
COMPANY: P. B. & M. Black Canada		JOB #			
CONTACT:		PO/A/E:			
ADDRESS:		LSD:			
PHONE:		QUOTE #			
FAX:					
SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	HAZARDOUS ?
ET-1100	Robert Bay	3/19/05		2 jars 1 bag	BTX FI-FA
ET-1101				2 jars 1 bag	PAH
ET-1108				2 jars 1 bag	Metals (SCME)
ET-1109				2 jars 1 bag	PCB
ET-1111					
ET-1112					
ET-1113					
ET-1151 A				1 jar	
ET-1152 A				1 jar	
ET-1153 A				1 jar	
ET-1154 A				1 jar	
ET-1155 A				1 jar	
Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.					
RELINQUISHED BY: [Signature]	DATE & TIME: 8/24/05	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)	
REFER TO BACK PAGE FOR SAMPLING INFORMATION & REGIONAL LOCATIONS WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY					

[illegible]

REPORT TO:		DATE:		LAB WORK ORDER #	
COMPANY: <i>Environ Tech</i>		REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED		REGULAR SERVICE (DEFAULT)	
CONTACT:		EMAIL: FAX:		PRIORITY SERVICE (50% SURCHARGE)	
ADDRESS:		EMAIL 1: EMAIL 2:		EMERGENCY SERVICE (100% SURCHARGE)	
PHONE: FAX:		DIGITAL EMAIL:			
CELLPHONE:		SELECT: pdf digital both		ANALYSIS REQUEST	
INVOICE TO: SAME Y / N		INDICATE BOTTLES: FILTERED/PRESERVED (F/P)			
COMPANY:		JOB #			
CONTACT:		PO/AFE:			
ADDRESS:		LSD:			
PHONE: FAX:		QUOTE #			
SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	LAB SAMPLE #
ET - 11720	Robert Bay			bag	
ET - 11718				bag	
ET - 11722				bag	
ET - 11724					
ET - 11725					
ET - 11726				100% bag	
ET - 11727				2 jar bag	
ET - 11728				2 jar bag	
ET - 11729				2 jar bag	
ET - 11730				2 jar bag	
ET - 11731				2 jar bag	
ET - 11732				2 jar bag	
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ET - 11944				2 jar bag	
ET - 11945				2 jar bag	
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ET - 11948				2 jar bag	
ET - 11949				2 jar bag	
ET - 11950				2 jar bag	
ET - 11951				2 jar bag	
ET					

[illegible]

[illegible]

REPORT TO:		DATE: 8/24/05		LAB WORK ORDER #					
COMPANY: UNDA Engineering		REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED							
CONTACT: Craig P. Hines		EMAIL FAX							
ADDRESS: 200-415 Gough Road EAS?		EMAIL 1:		REGULAR SERVICE (DEFAULT)					
Victoria B. C.		EMAIL 2:		PRIORITY SERVICE (50% SURCHARGE)					
PHONE: 475 6355 FAX: 475 6388		DIGITAL EMAIL:		EMERGENCY SERVICE (100% SURCHARGE)					
CELLPHONE:		SELECT: pdf digital both							
INVOICE TO: SAMEY IN		INDICATE BOTTLES: FILTERED/PRESERVED (FIP) ▶		ANALYSIS REQUEST					
COMPANY: PWGSC		JOB # Roberts Ray							
CONTACT: MEGAN GAMBLE		PO/AFE:							
ADDRESS: 5th Floor 10025 Jasper Ave		EO 211-023196/004/EDM							
Edmonton		LSD:							
PHONE: 497-8753 FAX: 497-3976		QUOTE #							
SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #	
VEG - 1A	Roberts Lane	Aug 18/05 UMA	Graab	Vegetation					
VEG - 2B									
VEG - 6A									
VEG - 4A									
VEG - 2A									
VEG - 1B									
VEG - 3A									
VEG - 5A									
VEG - 6B									
VEG - 9A									
VEG - 8A									
VEG - 4B									
					SAMPLE CONDITION				
					FROZEN	MEAN TEMPERATURE			
					COLD				
					AMBIENT				
Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.									
RELINQUISHED BY: [Signature]		DATE & TIME: 8/24/05		RECEIVED BY:		DATE & TIME:		SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)	
RELINQUISHED BY:		DATE & TIME:		RECEIVED BY:		DATE & TIME:			

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LABORATORIES

[illegible]

File No: 2-21-900

December 16, 2005

Mr. Gordon Woolett
Earth Tech Canada
17203 - 103 Ave.
Edmonton, AB
Canada T5S 1J4

Dear Gordon:

Subject: Results & Invoice for BCMEM SFE for Roberts Bay Samples

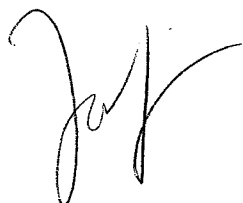
Five rock samples from the Robert's Bay Project were received for BCMEM shakeflask extraction. Due to insufficient weights received, the sample size used was 50g to 150ml in keeping with the 1:3 ratio called for in the procedure.

The extracts were analysed for pH and ICP-MS scan. A method blank was run and analysed for pH and EC.

The cost detail is shown below. Enclosed is our invoice for \$720.00 plus GST.

Thanks you for using Vizon Scitec. If you have any questions regarding this testing or the invoice please contact me.

Sincerely,



Tim O'Hearn
Director, ARD Group
Process & Analysis Division

Vizon SciTec Inc.
3650 Wesbrook Mall
Vancouver, BC
Canada V6S 2L2

Tel:
(604) 224-4331

Fax:
(604) 224-0540

Email:
info@vizonscitech.com

Web:
www.vizonscitech.com



Table 1: Results of BCMEM Shakeflask Extraction on Roberts Bay Samples Received November 18, 2005

Parameter	Units	Method	Detection Limit	ET-1068	ET-1113	ET-1165	ET-1171	EDA-01	Method Blank
pH				7.9	7.5	8.0	8.1	8.0	5.5
EC		meter							1.9
Dissolved Metals									
Al	mg/L	ICP-MS	0.001	0.1	0.006	0.29	0.26	0.1	-
Sb	mg/L	ICP-MS	0.0002	0.037	0.118	0.195	0.03	0.001	-
As	mg/L	ICP-MS	0.0002	0.068	0.099	0.217	0.196	0.0053	-
Ba	mg/L	ICP-MS	0.0002	0.111	0.0016	0.09	0.137	0.012	-
Be	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	-
Bi	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	-
B	mg/L	ICP-MS	0.01	0.03	0.03	0.06	0.04	0.44	-
Cd	mg/L	ICP-MS	0.00004	0.00034	0.00014	0.00087	0.0001	< 0.00004	-
Ca	mg/L	ICP-MS	0.01	27.8	34.3	40.9	29.5	16.7	-
Cr	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	0.0034	0.0011	0.0006	-
Co	mg/L	ICP-MS	0.0002	0.0007	0.0006	0.0012	0.0008	< 0.0002	-
Cu	mg/L	ICP-MS	0.0002	0.011	0.013	0.022	0.022	0.018	-
Fe	mg/L	ICP-MS	0.01	< 0.01	< 0.01	0.54	0.28	0.05	-
Pb	mg/L	ICP-MS	0.0002	0.043	0.0002	0.05	0.023	< 0.0002	-
Li	mg/L	ICP-MS	0.0002	0.011	0.011	0.0018	0.004	0.024	-
Mg	mg/L	ICP-MS	0.01	4.25	3.33	2.59	5.44	20.7	-
Mn	mg/L	ICP-MS	0.0002	0.025	0.025	0.057	0.014	0.014	-
Mo	ug/L	CVAA	0.0001	0.026	0.0035	0.013	0.015	0.011	-
Ni	mg/L	ICP-MS	0.0002	0.0096	0.0091	0.032	0.012	0.0013	-
PO4	mg/L	ICP-MS	0.03	< 0.03	27.2	0.16	< 0.03	0.12	-
K	mg/L	ICP-MS	0.02	3.13	11.6	3.14	4.85	19.5	-
Se	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	-
SiO2	mg/L	ICP-MS	0.05	1.44	7.24	3.23	3.65	5.15	-
Ag	mg/L	ICP-MS	0.00005	0.00	0.00	0.01	0.00	< 0.00005	-
Na	mg/L	ICP-MS	0.01	4.62	2.26	4.55	3.9	526	-
Sr	mg/L	ICP-MS	0.0002	0.043	0.018	0.054	0.046	0.200	-
Te	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	-
Ti	mg/L	ICP-MS	0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	-
Th	mg/L	ICP-MS	0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	-
Sn	mg/L	ICP-MS	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0026	-
Tl	mg/L	ICP-MS	0.0002	< 0.0002	0.0098	0.01	0.0049	0.0026	-
V	mg/L	ICP-MS	0.0001	0.0001	< 0.0001	0.0004	0.0015	0.0004	-
U	mg/L	ICP-MS	0.0002	< 0.0002	0.013	0.0016	0.002	0.0064	-
Zn	mg/L	ICP-MS	0.001	0.01	0.005	0.063	0.025	0.003	-
Zr	mg/L	ICP-MS	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-

Solid to liquid ratio : 1:3 (50g to 150mL) due to insufficient sample weight.
 BCMEM SFE procedure calls for 250g to 750mL.

APPENDIX G



EXCERPTS FROM REFERENCE REPORTS

The 1996 Vista Engineering survey/inspection yielded the following information as to the conditions at the Roberts Bay Mine Site.

In terms of camp-building infrastructure, all buildings were/are wood-framed, wood floored, and had/have partial plywood walls. Insulation is scattered in and amongst the buildings, there is scrap wood, tarp remnants, furniture, and 15 - 205L fuel drums scattered about. Buildings observed include:

- 10 tent frames
- Outhouse:
 - Wood frame
 - Porcelain toilet
 - Below is a 205L drum, $\frac{3}{4}$ full of sewage
- Shed:
 - Plywood roof
 - Wired for electricity
 - 4 rolls of fiberglass insulation attached to tarpaper
 - 6 large burlap bag bundles
- Kitchen:
 - Collapsing
 - Linoleum covered floor
- Washroom:
 - Linoleum covered floor
 - Hot water heater (x2)
 - 3 sinks
 - Water tank
 - Propane stove
 - Electric Fridge
- Dining Room:
 - Only floor remains
- Bunkhouse (x3):
 - Poor condition
- Bunkhouse:
 - Only floor remains
- Bunkhouse:
 - Collapsed
 - 3 Oil furnaces adjacent
- Bunkhouse:
 - Nearly collapsed
 - Scattered insulation
 - Metal cot

Other infrastructure buildings are:

- Mill:
 - Stable, steel framed
 - Ball-mill on skids
 - 7 floatation cells
 - Collapsed electrical panels

- Dry-type transformer
 - Metal storage cabinet, empty
 - 6 – 205L drums with processing chemicals inside
 - 2 – 105L drums, ½ full of xanthanate
 - 1 – full, 105L xanthanate drum
 - 1 – drum, 1/10 full of “Pine Oil”
 - 1 – drum, ¾ full of “Dowfroth 1012 Floatation Frother”
 - 1 – 205L drum with release valve, xanthanate solution
- Assay lab:
 - Steel framed, sound
 - Partial plywood walls
 - Kiln
 - 2 – shaker tables
 - Crucibles
 - Ore samples
 - Burlap sacks
 - 6 – bags, “High Calcium Sno-White Process Agent”
 - 20L cardboard drum of lime
 - 2 – 3L glass jar of HCl Vermiculite in a plastic garbage bag
 - 3L broken glass jar of Nitric acid, stored in vermiculite in a plastic bag
 - 3L jar of Nitric acid, ½ full
 - 20L pail of lead shavings
 - 20L pail of carbonate
- Adit Vestibule:
 - Steel-frame
 - Tarp-covered (partially intact as of 1997)
 - Vestibule covers entrance to the flooded adit
- Shop:
 - Stable, steel framed
 - 2 – charged fire-extinguishers
 - 6 – lead-acid batteries
 - 2 – 20L drums containing stained vermiculite
 - 10L leaking pail of tar
 - 20L barrel containing “Essolube” lubricating oil
 - 6 – broken bags of high-calcium processing agent
 - ~500m of detonation cord
 - Misc. scrap metal and hardware
- Vent Shack:
 - Wood-framed, stable but beginning to deteriorate
 - Covers vent
- Pump House:
 - Wood framed
 - Partially submerged in a small pond
 - 100m rubber hose and 40m electrical wire stretching towards the mine site
- Hoppers:
 - #1 – Fine Ore Hopper:

- Steel framed
- Plywood walls
- Concrete foundation
- Empties onto conveyor belt that leads to the mill
- #2 – Coarse Ore Hopper:
 - Steel framed
 - Plywood walls
 - Surrounded by a waste rock pile, which has been graded to form a ramp to dump ore.
 - Cone crusher is adjacent
- #3:
 - Steel framed
 - In rubbish pile

Other debris and hazards include:

- Artifacts, Metal Debris, and Solid Waste:
 - Empty 205L drums
 - Metal Pipes
 - Rubber Hose
 - Wood
 - Insulation
 - Disseminated metal debris
 - 10 empty pressurized tanks, with holes in the sides
 - 10 – 205L drums with spent iron balls inside
 - 1 defined disposal site:
 - 10 tractor tires
 - 100m of electrical wire
 - 100m of 5cm rubber hose
 - Rubber fuel bladder
 - Scrap metal
- Shaft:
 - Rock-filled
 - Stability and depth unknown
- Waste Rock:
 - Unlikely to produce acid because neutralizing potential exceeds acid producing potential
- Exploratory Trenches:
 - 5
 - Harmless
- Tailings:
 - Lined with polyethylene
 - Surrounded by a 1m high aggregate berm
 - 1m deep near outlet pipe
 - Exceeds CCME Remediation Criteria for Soil with respect to:
 - Arsenic

- Barium
 - Nickel
 - Thallium
- Petroleum Products:
 - 190 – 250L drums, empty (100 at the disposal site, rest scattered)
 - 20L full barrel of “Essolube” (in shop)
 - 2 empty fuel bladders, surrounded by a plastic lined aggregate berm
- Miscellaneous:
 - 2 Xanthanate drums:
 - Open
 - High in salts:
 - Potassium
 - Sulfate
 - Chloride
 - Carbonate
 - Alkaline
 - Conductive

Table 2: Soil Quality Results – Fuel Area

Sample ID	RBSM-TF- 1A	RBSM-TF- 2B	RBSM-TF- 3A	RBSM-TF- 3B	RBSM-TF- 4B	RBSM-TF- 5B	RBSM-TF- 5D	RBSM-TF- 6B	RBSM-TF- 7A	RBSM-TF- 7B	RBSM-TF- 8A	RBSM-TF- 8A	CCME
Location	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	Fuel Area	
Date Sampled	08/19/03	08/19/03	08/19/03	08/19/03	08/19/03	08/19/03	08/19/03	08/19/03	08/20/03	08/20/03	08/20/03	08/20/03	Soil Res/Park ^a
Benzene	<0.1	<0.1	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5
Ethylbenzene	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2
Toluene	<0.2	<0.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8
Xylenes	<0.6	<0.6	<0.3	<0.3	<0.3	16.9	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1
F1 (C5-C10)	60	60	<20	<20	<20	80	60	<20	<20	<20	<20	<20	260
F2 (C10-C16)	20,000	4,700	290	710	<10	11,000	430	<10	20	30	<10	<10	900
F3 (C16-C34)	8,600	1,600	200	250	<10	2,100	80	60	30	60	<10	<10	800
F4 (C34-C50)	<10	30	<10	<10	<10	40	<10	<10	<10	<10	<10	<10	5600
PCB	<0.1	--	--	--	--	--	--	--	--	--	--	--	1.3
Aluminum	6300	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	1.9	--	--	--	--	--	--	--	--	--	--	--	12
Barium	85	--	--	--	--	--	--	--	--	--	--	--	500
Beryllium	<1	--	--	--	--	--	--	--	--	--	--	--	4
Cadmium	0.6	--	--	--	--	--	--	--	--	--	--	--	10
Chromium	20	--	--	--	--	--	--	--	--	--	--	--	64
Cobalt	5	--	--	--	--	--	--	--	--	--	--	--	50
Copper	29	--	--	--	--	--	--	--	--	--	--	--	63
Cyanide (free)	<0.10	--	--	--	--	--	--	--	--	--	--	--	0.9
Iron	10,500	--	--	--	--	--	--	--	--	--	--	--	--
Lead	4	--	--	--	--	--	--	--	--	--	--	--	140
Manganese	245	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	1	--	--	--	--	--	--	--	--	--	--	--	10
Nickel	13	--	--	--	--	--	--	--	--	--	--	--	50
Silver	<1	--	--	--	--	--	--	--	--	--	--	--	20
Strontium	52	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	<1	--	--	--	--	--	--	--	--	--	--	--	1
Vanadium	25	--	--	--	--	--	--	--	--	--	--	--	130
Zinc	57	--	--	--	--	--	--	--	--	--	--	--	200

< = Less than the detection limit indicated.

Results are expressed as milligrams per dry kilogram except where noted.

a : Canadian Council of Ministers of the Environment, Canadian Environmental Quality Guidelines for Soil at Residential and Parkland Sites and CCME Canada Wide Standards for Petroleum Hydrocarbons in Soil – Fine Grained Surface Soils

Table 3: Soil Quality Results

Sample ID	RBSM-Mill-1	RBSM-GAR-1A	RBSM-Gar-1B	RBSM-Gar-2A	RBSM-Gar-2B	RBSM-Camp-1	RBSM-Landfill-1	CCME
Location	Mill	Garage	Garage	Garage	Garage	Camp Area	Landfill Area	
Date Sampled	08/20/03	08/20/03	08/20/03	08/20/03	08/20/03	08/20/03	08/20/03	Soil Res/Park ^a
Benzene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5
Ethylbenzene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2
Toluene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8
Xylenes	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1
F1 (C5-C10)	<20	<20	<20	<20	<20	--	--	130
F2 (C10-C16)	740	<10	470	30	70	--	--	450
F3 (C16-C34)	1,600	1,800	2,500	5,300	4,400	--	--	400
F4 (C34-C50)	50	4,800	740	490	410	--	--	2800
TPH	--	--	--	--	--	<20	<20	
PCB	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	1.3
Aluminum	19,100	19,800	24,400	12,800	14,500	25,300	6000	-
Arsenic	35.6	33.1	16.9	6.1	10.1	17.2	2.8	12
Barium	33	138	152	455	406	119	56	500
Beryllium	<1	<1	<1	<1	<1	<1	<1	4
Cadmium	5.5	4.3	6.9	<0.5	<0.5	1.1	<0.5	10
Chromium	104	101	136	106	74	166	24	64
Cobalt	25	60	81	15	14	24	6	50
Copper	108	152	426	84	112	90	21	63
Cyanide (free)	<0.10	<0.1	<0.1	<0.10	<0.10	--	--	0.9
Iron	97,700	50,000	64,600	49,000	57,600	58,400	14,700	-
Lead	156	420	110	28	42	74	7	140
Manganese	1,030	820	932	1,120	1,200	1,220	197	-
Molybdenum	2	4	5	11	10	11	2	10
Nickel	76	94	105	51	35	89	16	50
Silver	35	117	50	2	2	63	3	20
Strontium	32	19	17	20	20	22	13	-
Thallium	<1	<1	<1	<1	<1	<1	<1	1
Vanadium	78	83	69	33	33	93	28	130
Zinc	172	329	142	74	120	138	42	200

< = Less than the detection limit indicated.

Results are expressed as milligrams per dry kilogram except where noted.

a : Canadian Council of Ministers of the Environment, Canadian Environmental Quality Guidelines for Soil at Residential and Parkland Sites and CCME Canada Wide Standards for Petroleum Hydrocarbons in Soil – Coarse Grained Surface Soils

which exceed the CCME Canada Wide Standards for Petroleum Hydrocarbons – coarse surface soils. In addition, one of the surficial garage samples (RBSM-Gar-1A) also had an F4 concentration that exceeded the CCME Canada Wide Standards for Petroleum Hydrocarbons – coarse surface soils. The soil samples collected from these areas also had arsenic, chromium, cobalt, copper, lead, nickel silver and zinc concentrations greater than the CCME Soil Quality Guidelines for the Protection of Environmental and Human Health – residential / parkland landuse. Due to site time constraints imposed by the weather, full delineation of these stained areas could not be completed. However, based on visual observations, they appear to be localized. It is estimated that 30 m³ of soils have been impacted.

No hydrocarbon impacts were noted in the samples collected from the camp site (RBSM-Camp-1 and RBSM-Landfill-1). However sample RBSM-Camp-1 had arsenic, chromium, copper, molybdenum, nickel and silver concentrations greater than the CCME Soil Quality Guidelines.

The elevated metal concentrations in the site soils are similar to the metal concentrations found in the waste rock, which was used at the site as fill material.

Ida Bay Silver Deposit

No soil samples were collected from the Ida Bay site.

6.1.1.3 Hazardous Materials Characterization

Roberts Bay Silver Mine

Hazardous materials identified at the Roberts Bay site included hydrocarbon products, batteries and a transformer. Samples of waste oil/grease (RBSM-Gar-Product-1) and the contents of a partially filled barrel (RBSM-Gar-Product-2) were collected from the Garage Area. Analyses confirmed that these materials did not contain PCB. RBSM-Gar-Product-1 was characterized as a heavy oil / grease which did not contain PCBs. RBSM-Gar-Product-2 was characterized as a oily water mixture. Although it was observed during collection to be yellow in colour, it had no detectable hydrocarbons or PCBs.

A sample of a clear odourless liquid stored at the hazardous materials storage area, south of the Mill (RBSM-Mill-Haz-1) was characterized as a light hydraulic oil, free of PCBs.

Ida Bay Silver Deposit

No hazardous materials were identified at the Ida Bay site.

Table 4: Hazardous Materials

Sample ID	RBSM-Mill-Haz-1	RBSM-GAR-Product-1	RBSM-Gar-Product-2
	Clear liquid from Hazmat storage Area	Grease from Garage area	Drum contents from Garage Area
Location			
Date Sampled	08/20/03	0820/03	08/20/03
TPH	210	—	<8
PCB	<1	<2 ug/g	<1
Aluminum	14.4	—	—
Arsenic	<0.5	—	—
Barium	<0.05	—	—
Beryllium	1.6	—	—
Cadmium	<0.005	—	—
Chromium	0.08	—	—
Cobalt	<0.01	—	—
Copper	<0.05	—	—
Iron	12.1	—	—
Lead	<0.05	—	—
Manganese	<0.2	—	—
Molybdenum	<0.2	—	—
Nickel	<0.2	—	—
Silicon	<5	—	—
Silver	<0.005	—	—
Strontium	0.32	—	—
Thallium	<0.05	—	—
Titanium	0.7	—	—
Vanadium	<0.05	—	—
Zinc	0.5	—	—

< = Less than the detection limit indicated.

Results are expressed as milligrams per litre except where noted.

6.1.2 Waste Rock / Tailings

Acid Rock Drainage Potential

The overall balance between the Maximum Potential Acidity (MPA) of a material and the Neutralization Potential (NP) of a material is determined through dividing the MPA into the NP. The resulting dimensionless value is known as the Net Potential Ratio (NPR). The NPR provides a valuable indication of the overall *potential* for a sample to generate net acidity. Theoretically, rock with equal masses of sulphide (MPA) and neutralizing (NP) minerals should ultimately generate net neutral drainage when exposed to weathering processes. The resulting NPR for this condition is unity and is rarely observed in the natural environment as neutralizing minerals are usually not completely exhausted when counteracting the production of acid. INAC management guidelines therefore set a NPR of >3.0 as the point at which there would be an unlikely potential for a sample to generate net acidity. For tailings, an NP/AP ratio of 1.2:1 is generally accepted to define non-acid generating rock (INAC, 1998). Table 5 summarizes the guidelines stipulated by the INAC Acid Rock Drainage Guidelines.

Table 5
Guidelines for Interpretation of Waste Rock ABA Results (INAC, 1998)

NPR	Acid Generating Potential
NPR >3.0	Unlikely to generate net acidity
$1.0 \leq \text{NPR} \leq 3.0$	Uncertain acid generating potential
NPR < 1.0	Likely potential to generate acid

Roberts Bay Silver Mine

Waste Rock

Seven discrete waste rock piles were observed at the site, as well as numerous berms and rock pads constructed from waste rock materials. Rock pad material covers the majority of the site beneath the mill, adit and machine shop area, as well as the area to the north of the mill. A record of waste rock sample descriptions can be found in Appendix D.

The waste rock is comprised of black fine grained mafic volcanics with occasional quartz veinettes and stringers. There is 1–2 % visible sulphides locally concentrated upon fracture surfaces and within quartz. There is also trace amounts of oxidation staining on the waste rock, localized around the sulphides. The waste rock is irregular in shape, consisting of blasted rock fragments which were estimated to range in size from less than 0.01 m to 0.5 m.

In addition to the waste rock piles, there are four berms constructed out of waste rock materials at the Roberts Bay site; one surrounds the camp landfill, another encircles the tailings pond, a third on the crush rock ore pad and finally one surrounding the former fuel bladder storage location. Waste rock material used in the construction of the berms are similar in composition with the exception of the materials surrounding the fuel bladder. Berm materials from the landfill, tailings pond and ore pad are a mix of basalt, gabbro, and granites. Materials vary in grain size and were visually estimated at 50% gravel with 20% cobble and 10% boulder-sized materials. Finer grained materials were exposed when the surface of each berm was dug into. The berm materials did not exhibit rust or oxidation staining and contain the occasional quartz vein with trace to 1% visible sulphides.

The materials which make up the berm around the fuel bladder are also a mixture of basalt, gabbro and granites with the addition of 40 to 50% quartz and 3 to 5% visible sulphides with rust and oxidation staining occurring in greater frequency.

Tailings Pond

There is one tailings pond located west of the mill building at the Roberts Bay site. The tailings pond is estimated to be 30 m in diameter with approximately 60% of the tailings solids submerged below the surface of the water line at the time of the site inspection. Algae and grasses were observed to be growing at the northeast margin of the tailings.

Judging from the tailings deposition pattern observed within the impoundment, it would appear that the tailings were discharged into the pond at several locations around the perimeter of the impoundment thereby limiting infiltration of tailings porewater into the upstream side of the impoundment berm. The tailings impoundment berm is constructed of glacial till but is not sufficiently armoured with crushed rock to limit long-term erosion. There were no design documents available for the tailings containment berm and it is unclear what level of quality control procedures were implemented during construction.

The tailings themselves are greenish grey in colour and comprised of silt and sand sized particles. The exposed tailings are on a 2 to 5% slope and fairly evenly distributed with no desiccation cracks or erosional features noted. No rusty oxidation staining was observed on the surface of the tailings however, approximately 10 to 15% of the exposed tailings is covered with a brittle white precipitate (possibly gypsum) creating a speckled appearance in these areas.

The tailings were generally soft and penetrable with a hand shovel. The first test pit was dug approximately 2 metres up-slope from the tailings water surface. The tailings located in the first test pit were well consolidated and drained allowing the pit to be dug fairly easily into the material without sloughing of tailings back into the pit. The top 10 cm of the first pit was brownish-green in colour, below which the materials became greener in colour. The second test pit was dug very close to the free water surface and was completely saturated with residual tailings water. The second test pit could only be dug to a depth of 0.25 metres before the surrounding materials would sink back into the hole and water would infiltrate. There were no sulphides or rusty oxidation staining visible within the tailings materials. A record of tailings sample descriptions can be found in Appendix D.

Ida Bay Silver Deposit

Waste Rock Piles

A total of three waste rock piles were identified at Ida Bay each located in close proximity to the adit. The smallest of the three piles is located immediately north of the adit and extends from land into the ocean. The second pile is located west of the adit while a third large elongated pile is located to the west of the second pile. A description of the waste rock sample collected at the site can be found in Appendix D.

The composition of the waste rock from all of the piles was essentially the same; black fine-grained basalt with trace to an estimated 1% pyrite coating on fracture surfaces and rare quartz veinettes and stringers with sulphides on their selvages. Within the basalt are 5% inclusions of pink syenitic granite as pods and stringers less than 10 cm wide. There was no visible oxidation staining.

6.1.2.1 Waste Rock / Tailings Analytical Results

The ARD potential of waste rock and tailings samples collected at the site was determined through a number of analytical tests. The results from ABA analysis of tailings and waste rock samples are presented in Table 6.

A review of the NPR values indicated that the majority of the samples have a low potential to generate net acidity (*i.e.*, $\text{NPR} > 3.0$). NPR values of greater than 8 were determined in samples 1, 2, 3, 4, 5 and 10 indicating an extremely low potential to generate net acidity under weathering conditions. The below surface tailings samples had particularly high NPR values of 42.2 and 39.0 for Samples 2 and 3 respectively. Sample 7 is also unlikely to generate net acidity with an NPR value of 4.86. The NPR value for sample 6, collected from the berm around the fuel area was 1.12 indicating an uncertain potential to generate net acidity. Sample 9, collected from the waste rock pile south of the Garage, indicated a likely potential to generate net acidity with an NPR value of 0.6.

In addition to ABA analysis, the 9 grab samples (waste rock and tailings) collected from the Roberts Bay site and 1 waste rock grab sample collected from the Ida Bay site were also analyzed for water leachable metals and total metals content.

The results of leachable metals testing are presented in Table 7. The results have been compared to CCME Water Quality Guidelines for the Protection of Aquatic Life (freshwater). The comparison is conservative in that the leaching tests conducted in the laboratory give worst-case results as the test does not simulate dilution that will likely to occur in the environment prior to reaching aquatic biota. For aluminium, copper, lead and nickel, the CCME guidelines provide a range of values that are dependent upon the alkalinity of the water. In the absence of aquatic alkalinity data, the lower end CCME guideline values (*i.e.*, aluminum, copper, lead and nickel) have been used for evaluation purposes.

A total of four metals leached to concentrations exceeding their respective CCME guideline value (aluminum, arsenic, selenium and copper). The concentration of aluminum in all but Sample 6 (Fuel Berm Waste Rock) exceeded the CCME guidelines, with values ranging from 0.186 mg/L to 0.761 mg/L. Leachate concentrations of arsenic exceeded the guideline for all samples with the exception of Samples 4 and 7. Exceedence values ranged from 0.0052 mg/L (Sample 6 – Fuel Berm Waste Rock) to 0.746 mg/L (Sample 2 – Roberts Bay tailings). Analysis of the tailings leachate indicated the highest concentration of leachable arsenic was associated with Roberts Bay tailings. Extractable selenium exceeded the guideline (0.001 mg/L) in Samples 6 and 9 with values of 0.002 mg/L and 0.003 mg/L respectively. Copper was slightly elevated over the guideline in Samples 1, 2, 3, 4, and 6.

The results of total metals testing are presented in Table 8. The results have been compared to CCME Soil Quality Guidelines for the Protection of Environmental and Human Health (Residential/Parkland). The comparison is conservative in that the

part of a more detailed geochemical investigation, the installation of water quality monitoring wells should be considered to aid in evaluating whether arsenic or other metals of concern are actively migrating from the tailings into the active layer groundwater. Investigation of both the groundwater hydrology and quality downstream of the tailings will help to define what types of closure options are most appropriate for the tailings impoundment.

Petroleum Hydrocarbons

Due to weather constraints during this year's field work, the contents of a representative number of drums could not be collected. Additional investigation of the drums on site is required to identify contents and determine whether the contents can be incinerated at site or require off-site disposal

Hazardous Waste

Due to weather constraints during this year's field work, the contents of drums stored in the hazardous waste storage area south of the Mill were not identified. Sampling and characterization of these materials to determine disposal requirements is recommended.

9.2 Physical Hazards

Mine Related Site Features

The adits at the two sites should be backfilled as a more permanent closure method. This involves the clearing away of loose debris and capping of the opening with concrete followed by a layer of non-acid generating waste rock.

Similarly, the exploration pits should be backfilled.

Closure of the shaft and vent raises will likely require the use of blasting techniques to clear the opening and allow for proper capping to proceed. Waste rock, which has been identified as non-acid rock drainage generating, can be used as capping material.

Non-hazardous Waste

There are a few pieces of heavy machinery at the Mill, which cannot be easily moved due to their size and weight. However, the remaining non-hazardous waste at the site should be collected and disposed of in the mine adits, exploration pits, or vent raises. The debris should then be capped with cover material available at the site. Waste rock, which has been identified as non-acid rock drainage generating, can be used as cover material.

9.3 Cost Estimate to Implement Recommendations

The estimated cost to implement the recommendations for further investigation and remediation at the site outlined in Sections 9.1 and 9.2 is \$1,054,000. This includes additional acid rock drainage assessment work, collection and off-site disposal of hazardous materials from the site and collection and disposal of non-hazardous materials at the site into a mine opening and capping with non-acid rock drainage producing waste rock. The cost for capping or removal of any confirmed acid rock drainage generating

waste rock has not been included as the volume of such material is not currently known. A breakdown of the preliminary cost estimate is located in Appendix F.

10.0 REFERENCES

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INAC. 1998. *Guidelines for Acid Rock Drainage Prediction in the North*. Indian and Northern Affairs Canada. QS-8480-000-EF-A1.

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APPENDIX H

FCSAAP EVALUATION FORMS

FCSAAP Contaminated Site Classification

Site: Roberts Bay Mine Site, Nunavut
Date: 10-Nov-05

Category	Evaluation Factor	Score	Rationale
I. Contaminant Characteristics	A. Degree of Hazard	14	High concentrations of metals in waste rock fines
	B. Contaminant Quantity	6	If entire amount of waste rock is considered as a contaminant
	C. Physical State	3	
	Special Considerations		
	Total Scoring for CONTAMINANT CHARACTERISTICS	23	Maximum Score = 33
	Section A	14	
	Section B	6	
	Section C	3	
	Special Considerations		
Exposure Pathways: Groundwater*	A1. Known contamination and operable groundwater pathway within and / or beyond the property boundary		
	OR		
	A2. Potential for Groundwater Contamination		
	2a. Engineered Subsurface Containment	4	
	2b. Thickness of Confining Layer Over Aquifer of Concern or Groundwater Exposure Pathway	1.5	
	2c. Hydraulic Conductivity of Confining Layer	0.5	estimated value
	2d. Annual Precipitation	0.2	
	2e. Hydraulic Conductivity of Aquifer of Concern	0.5	estimated value
	A3. Special Considerations		
	Groundwater Scoring	6.7	Maximum score = 11
	Section 1 or 2	6.7	
	Section 3	0	
Exposure Pathways: Surface Water*	B1. Surface Water - Aquatic Environment Observed or measured contamination, above background conditions of surface water / effluent near the site which is considered an operable exposure pathway		
	OR		
	B2. Potential for Surface Water Contamination		
	2a. Surface Containment	5	
	2b. Distance to Perennial Surface Water	2	
	2c. Topography	1.5	
	2d. Run-off Potential	0.2	
	2e. Flood Potential	0	
	B3. Special Considerations		
	Surface Water Scoring	8.7	Maximum score = 11
	Section 1 or 2	8.7	
	Section 3	0	
Exposure Pathways: Direct Contact*	C1. Known Contamination of Media by direct contact		
	OR		
	C2. Potential for Direct Human and/or Animal Contact		
	2a. Vapour Emissions (gases, subsurface and surface generated vapours, contaminated dust)	3	potential for migration of heavy metal containing fines offsite
	2b. Accessibility of Site (Ability to Contact Materials)	4	remote location; however potential hunting area, no barriers
	2c. Hazardous Soil Gas Migration and Explosive Potential From the Site		
	C3. Special Considerations		
	Direct Contact Scoring	7	Maximum score = 11
	Section 1 or 2	7	
	Section 3	0	
Receptors: Human and Animal Uses*	Total Site Score for EXPOSURE PATHWAYS	22.4	Maximum score = 33
	A. Groundwater		
	B. Surface Water		
	C. Direct Contact		
	A1. Known adverse impact on humans or animals (domestic or documented traditional food source) as a result of the contaminated site		
	OR		
	A2. Potential for Impact on Humans or Animals		
	A2a. Drinking Water Supply		
	A2a i. Known Impact on Drinking Water Supply		
	OR		

	A2a ii. Potential for Impact on Drinking Water Supply		
	Proximity to Drinking Water Supply		
	Availability of Alternative Drinking Water Supply		
	A2b. Water Resources (recreational, commercial, livestock, irrigation or other food chain uses)		
	A2b i. Water Resources are known to be adversely affected as a result of site contamination		
	OR		
	A2b ii. Potential for Impact on Water Resources		
	a. Proximity of Water Resources to Site		
	b. Use of Water Resources		
	A2c. Direct Human Exposure		
	A2c i. Known Contamination of Land Used by Humans		
	OR		
	A2c ii. Potential Human Exposure Through Land Use	5	
	A3. Special Considerations		
	Receptors - Human and Animal Use Scoring	5	Maximum Score = 18
Receptors: Environment*	B1. Known Impacts on the Environment as a Result of the Contaminated Sites		
	OR		
	B2. Potential for Impact on Environmental Receptors		
	B2a. Potential for Impact on Environmental Receptors	12	
	B2b. Distance to an important or susceptible groundwater or surface water resource	1	
	B3. Special Considerations		
	Environmental Receptor Scoring	13	Maximum score = 16
	Total site Score for RECEPTORS A. Human and Animal Use B. Environmental Receptors	18	Maximum score = 34
Total Score (Maximum = 100)		63.4	

FCSAAP Contaminated Site Classification

Site: Ida Bay Mine Site, Nunavut
Date: 10-Nov-05

Category	Evaluation Factor	Score	Rationale
1. Contaminant Characteristics	A. Degree of Hazard	14	Elevated levels of copper and lead in sediment samples
	B. Contaminant Quantity	2	If entire amount of waste rock is considered as a contaminant
	C. Physical State	3	
	Special Considerations		
	Total Scoring for CONTAMINANT CHARACTERISTICS	19	Maximum Score = 33
	Section A	14	
Exposure Pathways: Groundwater*	A1. Known contamination and operable groundwater pathway within and / or beyond the property boundary		
	OR		
	A2. Potential for Groundwater Contamination		
	2a. Engineered Subsurface Containment	4	
	2b. Thickness of Confining Layer Over Aquifer of Concern or Groundwater Exposure Pathway	1.5	
	2c. Hydraulic Conductivity of Confining Layer	0.5	estimated value
	2d. Annual Precipitation	0.2	
	2e. Hydraulic Conductivity of Aquifer of Concern	0.5	estimated value
	A3. Special Considerations		
	Groundwater Scoring	6.7	Maximum score = 11
Exposure Pathways: Surface Water*	B1. Surface Water - Aquatic Environment Observed or measured contamination, above background conditions of surface water / effluent near the site which is considered an operable exposure pathway		
	OR		
	B2. Potential for Surface Water Contamination		
	2a. Surface Containment	3	
	2b. Distance to Perennial Surface Water	1.5	
	2c. Topography	1.5	
	2d. Run-off Potential	0.2	
	2e. Flood Potential	0	
	B3. Special Considerations		
	Surface Water Scoring	6.2	Maximum score = 11
	Section 1 or 2	6.2	
	Section 3	0	
Exposure Pathways: Direct Contact*	C1. Known Contamination of Media by direct contact		
	OR		
	C2. Potential for Direct Human and/or Animal Contact		
	2a. Vapour Emissions (gases, subsurface and surface generated vapours, contaminated dust)	3	
	2b. Accessibility of Site (Ability to Contact Materials)	4	remote location, however potential hunting area, no barriers
	2c. Hazardous Soil Gas Migration and Explosive Potential From the Site		
	C3. Special Considerations		
	Direct Contact Scoring	7	Maximum score = 11
	Section 1 or 2	7	
	Section 3	0	
Receptors: Human and Animal Uses*	Total Site Score for EXPOSURE PATHWAYS	19.9	Maximum score =33
	A. Groundwater		
	B. Surface Water		
	C. Direct Contact		
	A1. Known adverse impact on humans or animals (domestic or documented traditional food source) as a result of the contaminated site		
	OR		
	A2. Potential for Impact on Humans or Animals		
	A2a. Drinking Water Supply		
	A2a i. Known Impact on Drinking Water Supply		
	OR		

	A2a ii. Potential for Impact on Drinking Water Supply		
	Proximity to Drinking Water Supply		
	Availability of Alternative Drinking Water Supply		
	A2b. Water Resources (recreational, commercial, livestock, irrigation or other food chain uses)		
	A2b i. Water Resources are known to be adversely affected as a result of site contamination		
	OR		
	A2b ii. Potential for Impact on Water Resources		
	a. Proximity of Water Resources to Site		
	b. Use of Water Resources		
	A2c. Direct Human Exposure		
	A2c i. Known Contamination of Land Used by Humans		
	OR		
	A2c ii. Potential Human Exposure Through Land Use	5	
	A3. Special Considerations		
Receptors: Environment*	Receptors - Human and Animal Use Scoring	5	Maximum Score = 18
	B1. Known Impacts on the Environment as a Result of the Contaminated Sites		
	OR		
	B2. Potential for Impact on Environmental Receptors		
	B2a. Potential for Impact on Environmental Receptors	12	
	B2b. Distance to an important or susceptible groundwater or surface water resource	1	
	B3. Special Considerations		
	Environmental Receptor Scoring	13	Maximum score = 16
	Total site Score for RECEPTORS	18	Maximum score = 34
	A. Human and Animal Use B. Environmental Receptors		
Total Score (Maximum = 100)		56.9	

APPENDIX I

EARTH TECH SPECIAL PROVISIONS

The production and use of this Report is conditional upon the following agreement by the Client and Others who may use or rely upon it.

1. MANDATE OF EARTH TECH

This Report has been prepared pursuant to the instructions of the Client, and is subject to the constraints imposed by those instructions. Earth Tech & Partners Ltd. ("Earth Tech") and the Client are aware of these instructions and constraints. Others, who wish to rely upon this Report in any manner, should inquire of the Client for the terms of Earth Tech's mandate in preparing this Report.

2. BASIS OF REPORT

2.1 Representations to Earth Tech by Client

This Report has been prepared for the specific site, development, design objective, and purpose described to Earth Tech by the Client and is specifically based on all of the aforesaid.

Inaccuracies or alterations, of any of the matters upon which this Report is based, will affect the reliability and applicability of this Report.

2.2 Representations to Earth Tech by Other Persons

Earth Tech may have relied upon the representations or opinions of persons other than the Client in the course of preparing this Report. Earth Tech may not have checked the accuracy of such representations or opinions except where directed to do so by the Client. The accuracy of these representations and opinions will affect the accuracy of this Report.

2.3 Time Sensitivity of Report

The findings expressed in this Report by Earth Tech were valid, in accordance with generally accepted engineering practice and procedures, at the time that they were made. The Client and Others are advised that the conditions upon which such findings were based, and the findings themselves may be subject to change as a result of the passage of time.

3. USE OF REPORT BY THE CLIENT

The Client recognizes that projects involving pollutants and hazardous waste, as defined below, create extraordinary risks. In consideration of the said extraordinary risks and in consideration of Earth Tech providing the services to the Client in connection with the project on which pollutants and hazardous wastes are involved, the Client agrees that Earth Tech's liability to the Client, including liability resulting from claims by Third Parties upon the Client, with respect to any matter in any way arising out of Earth Tech's involvement with pollutants and hazardous wastes associated shall be limited to or otherwise protected as provided in paragraphs (a) and (b) below.

- (a) Earth Tech's liability to the Client in connection with pollutants and hazardous waste is absolutely limited, both in contract and in tort for any and all claims arising out of or in connection with the project to a total maximum aggregate amount not to exceed the cost of reperformance of the services at the sole cost of Earth Tech for that portion of the services proven to be in error.

It is further agreed that such limitation shall be exclusive of the liability of Earth Tech to the Client which may otherwise be provided for in this Agreement for claims unrelated to pollutants and hazardous wastes.

In further consideration of Earth Tech providing the services to the Client in connection with the project in which pollutants and hazardous wastes are involved, the Client agrees that in connection with incidents and claims initiated by Third Parties involving pollutants and hazardous wastes, the Client shall indemnify, defend and hold harmless Earth Tech of and from any and all suits, actions, legal and administrative or arbitration proceedings, claims, demands, damages, penalties, fines, losses, costs and expenses of whatsoever kind or character, arising or alleged to arise out of the services of Earth Tech or any claim against Earth Tech arising or alleged to arise from the acts, omissions or work of others. Such indemnification shall apply to the fullest extent permitted by law,

regardless of fault or breach of contract by Earth Tech and shall include the fees and charges of lawyers in defending or advising Earth Tech as to such claims under the Agreement.

Without limiting the generality of the foregoing, such indemnity extends to claims which arise out of the actual or threatened dispersal, discharge, escape, release or saturation (whether sudden or gradual) of any pollutant to hazardous waste in or into the atmosphere, or on, on to, upon, in or into the surface or subsurface, soils, water or water courses, persons, objects or any other tangible matter.

- (b) Nothing herein shall relieve Earth Tech from their obligations to provide the services required by this Agreement and generally as required by standard engineering practice current as of the date of the performance of the services.
- (c) For all purposes of this statement of limitations, "pollutants and hazardous wastes" shall mean any solid, liquid, gaseous or thermal irritant or contaminant, including without limitation smoke, vapour, soot, fumes, acids, alkalis, chemicals and wastes, including without limitation, pollutants, hazardous or special waste as defined in any federal, provincial or municipal laws.

4. SUBCONSULTANTS AND SUBCONTRACTORS

As a result of its mandate, Earth Tech may hire companies or individuals with special expertise or services not available within Earth Tech. These services are for the Client's benefit. The Client agrees to pay for the services of subconsultants and subcontractors. The Client also agrees to indemnify Earth Tech for any damage in any way resulting from the error, omission or negligent act of such subconsultants or subcontractors, including, without limiting the generality of the foregoing, the laboratory testing by subconsultants.

5. JOB SITE SAFETY

Earth Tech is only responsible for the activities of its employees on the job site and is not responsible for the supervision of any other persons whatsoever. The presence of Earth Tech personnel on the site shall not be construed in any way to relieve the Client or any other persons on site from their responsibilities for job site safety.

6. HAZARDOUS CONDITIONS AND EMERGENCY PROCEDURE

The Client undertakes to inform Earth Tech of all hazardous conditions, or possible hazardous conditions which are known to it. The Client recognizes that the activities of Earth Tech may uncover previously unknown hazardous materials or conditions and that such a discovery may result in the necessity to undertake emergency procedures to protect Earth Tech employees as well as other persons and the environment. These procedures may involve additional costs outside of any budgets previously agreed to. The Client agrees to pay Earth Tech for any expenses incurred as a result of such discoveries and to compensate Earth Tech through payment of additional fees and expenses for time spent by Earth Tech to deal with the consequences of such discoveries.

7. NOTIFICATION OF AUTHORITIES

The Client acknowledges that in certain instances the discovery of hazardous substances or conditions and materials may require that government bodies, and other persons, be informed and the client agrees that notification to such bodies or persons as required may be done by Earth Tech in its reasonably exercised discretion.

8. USE OF REPORT BY OTHERS

Others wishing to rely upon this Report in any manner may do so only upon condition that such use, and the consequences of such use, are entirely at their own risk and that they understand fully the terms of the Mandate and Basis of this Report.

It is further agreed by such Others that Earth Tech will not be liable to them in any manner including any liability in contract or in tort for any damages whatsoever arising from such use.