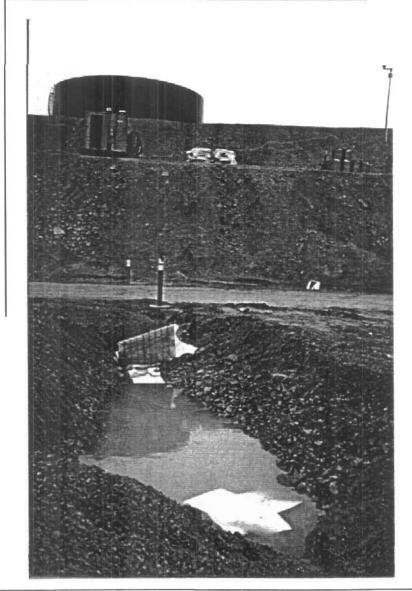
Appendix C Photographs



July 8, 2002. Culvert below tank farm.

PHOTOGRAPH 2



July 8, 2002. Looking north along East Interceptor Ditch towards Foldaway Buildings with heavy equipment parked in front and Concentrate Storage Shed. Tank Farm and initial area of excavation at right.

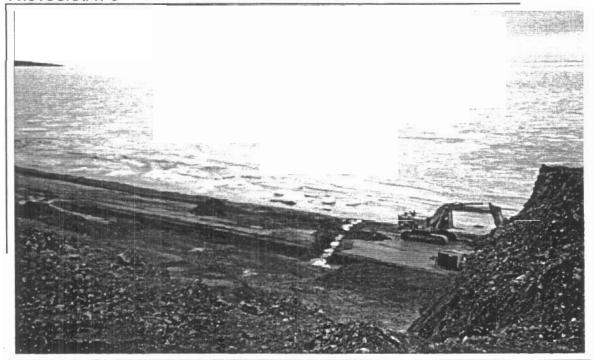


Looking south from culvert. Excavated beach area in foreground.

PHOTOGRAPH 4

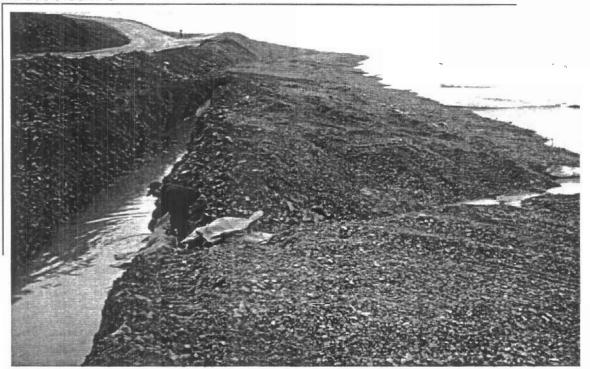


Looking north from pit TP02-10 at excavated beach area. Culvert discharge on north side of red box.



July 8, 2002. Looking west at Initial Excavation area from discharge line outfall.

PHOTOGRAPH 6



July 8, 2002. Hydrocarbon trap established in constructed channel of West Interceptor Ditch to control outflow to ocean.

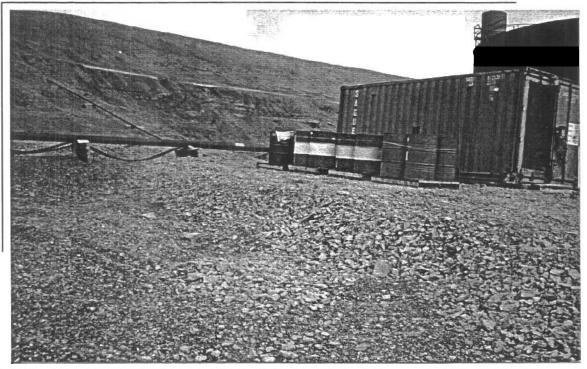


Absorbent pads in constructed channel between West Interceptor Ditch and the shoreline at pit TP02-03.

PHOTOGRAPH 8



July 11, 2002. Looking north at the south end of West Interceptor Ditch. Trench excavated through what appears to be sea ice.



July 12, 2002. Drum storage at north side of tank farm containment area where the liquid pumped from within the containment berm is stored.

PHOTOGRAPH 10



Area of Initial Excavation marked with red X's to indicate where further soil is to be removed.

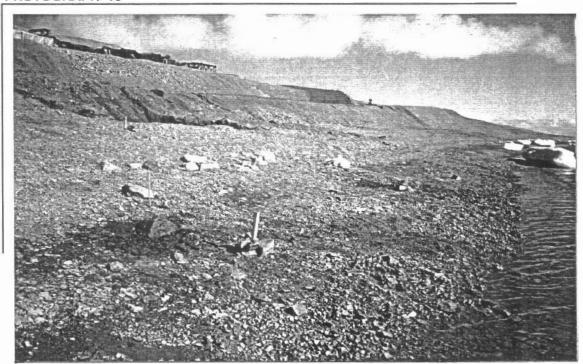


Initial Excavation below the tank farm. Resistive bedrock knob visible at center of photograph.

PHOTOGRAPH 12

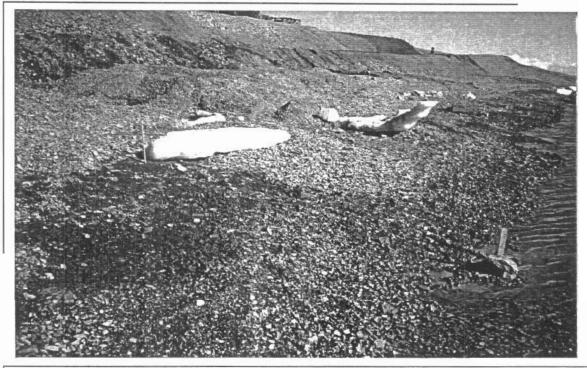


Looking north from testpit TP02-04. High tide and low tide contours are marked with flagging tape tied onto survey markers.



Looking south at "40 m Zone". Pit TP02-02 is in the foreground with a surface stain on its right. Pit TP02-01 is right of center in the photo and a larger surface stain surrounds it.

PHOTOGRAPH 14



Looking south at "40 m Zone". Pit TP02-03 in foreground with surface stain to its left. The constructed channel is at the center left of the photo between the large chunks of ice.



Pit TP02-12 excavated in unstained soil in "175 m Zone" of spotty areas of staining.

PHOTOGRAPH 16



July 11, 2002. Retreating from beach area following installation of wells during low tide conditions.



July 12, 2002. Installation of well WELL02-10 below low tide contour. Sea ice was frozen to ocean floor at this location.

PHOTOGRAPH 18



July 12, 2002. Inspection of wells WELL02-11 and WELL02-12 in "175 m Zone" north of excavated beach area.



July 12, 2002. Installation of well WELL02-09 above midway elevation between the low tide and high tide contours. Well WELL02-10 is installed below the low tide elevation.

PHOTOGRAPH 20



Looking east towards culvert discharge pathway and well WELL02-09.

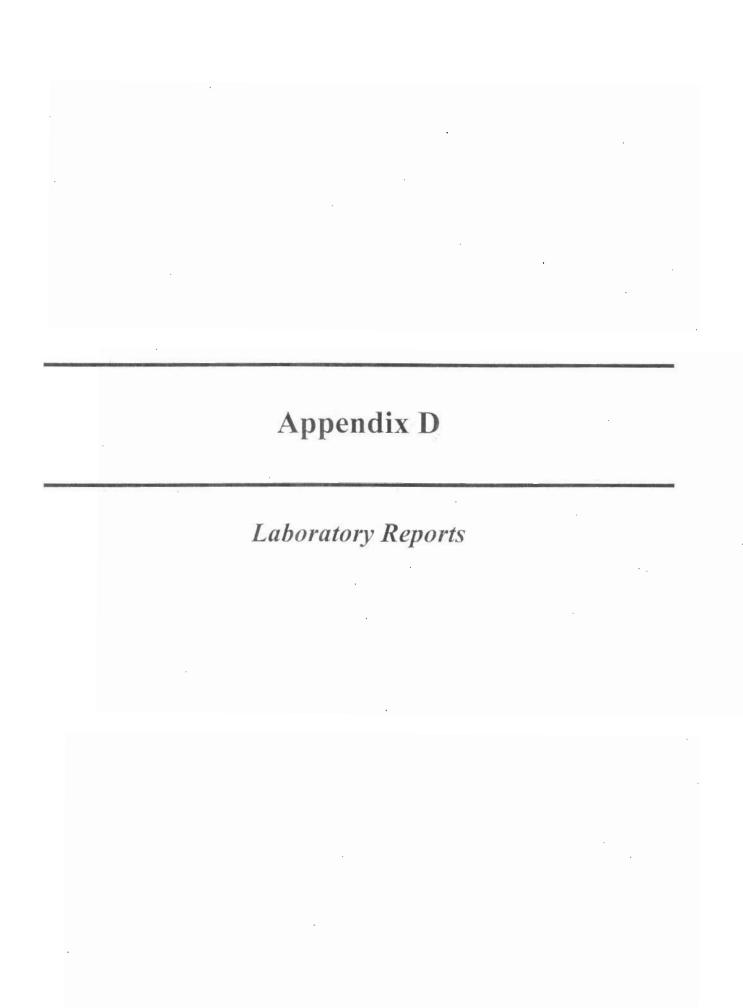
PHOTOGRAPH 21



July 12, 2002. Development of well WELL02-09, located at the culvert discharge area.



July 11, 2002. Accumulation of brown scum at south end of West Interceptor Ditch, possible hydrocarbons.



ALS CANADA LTD.

1988 Triumph Street, Vancouver, BC Canada V5L 1K5
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ALS Environmental



FAX		
ATTENTION Alex Bath	FAX NO	604-

COMPANY Garmer Lee - Burnasy.

September 11/02

299-1455

Leave Hawis

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FROM

Product Analysis ALSFile P7184

Jello Alex,

Here is the final report with HOR'S for your refluence.

Please note that the time scales are different on the two HOR'S Lue to a charge in our &c ren times.

The reference chrometogram pattern is what is important & the product has a distribution similar to diesel.

I have emailed you both an Excel & signed 7DF version to expediate your report.

This facsimile message contains privileged and confidential information intended only for the use of the addressee. If you are not the addressee, you are nereby notified that you must not disseminate, copy or take action in respect of its contents. If you have received the facsimile in error please notify ALS immediately and return it to the above fax.

ALS Environmental



GARTNER LEE LTD.

CHEMICAL ANALYSIS REPORT

Date:

September 11, 2002

ALS File No.

P7184

Report On:

20935 Product Analysis

Report To:

Gartner Lee Ltd.

Sperling Plaza

Suite 490, 6400 Roberts Street

Burnaby, BC V5G 4C9

Attention:

Mr. Alex Bath

Received:

July 22, 2002

ALS ENVIRONMENTAL

per:

Leavine Harris, B.Sc. - Project Chemist Brent C. Mack, B.Sc. - Project Chemist

REMARKS



Please note that the detection limits for all analytes were increased due to interferences encountered during analysis, directly related to the nature of the sample.

A liquid sample, identified as "Drum 1", was submitted for characterization by gas chromatography with flame ionization detection (GC/FID). The Hydrocarbon Distribution Report for this sample and reference standards have been appended to this report to assist you in your investigation. The scale at the top of the chromatographic traces represents the hydrocarbon range of common petroleum products. The scale at the bottom represents retention time in minutes.

This sample has a hydrocarbon distribution similar to diesel.

RESULTS OF ANALYSIS - Product



Sample ID	Drum 1	
Sample Date ALS ID	02 07 12 1	
Halogenated Volatiles Bromodichloromethane Bromoform Carbon Tetrachloride Chlorobenzene Chloroethane	<10 <10 <10 <10 <10	
Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene	<10 <10 <10 <10 <10	
1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethylene trans-1,2-Dichloroethylene	<10 <10 <10 <10	
1,1-Dichloroethylene Dichloromethane 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene	<10 <50 <10 <10	
1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane	<10 <10 <10 <10 <10	
Trichloroethylene Trichlorofluoromethane Vinyl Chloride	<10 <10 <10	

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per dry kilogram except where noted.
< = Less than the detection limit indicated.
CWS = CCME - Canada Wide Standards.
EPH = Extractable Petroleum Hydrocarbons.
EPH10-19 is equivalent to EHw10-19.
LEPH & HEPH = Light and Heavy Extractable Petroleum Hydrocarbons.
VPH = Volatile Petroleum Hydrocarbons.

RESULTS OF ANALYSIS - Product



Sample ID	Drum 1
Sample Date	02 07 12
ALS ID	1

Non-Halogenated Volatiles Benzene CWS Fraction 1 (C6-10) CWS Fraction 1-BTEX Ethylbenzene Methyl t-butyl ether (MTBE)	<10 9910 9450 53 <10
Styrene	<10
Toluene	14
meta- & para-Xylene	258
ortho-Xylene	138
Total Xylenes	396
Volatile Hydrocarbons (VH6-10)	12700
VPH	12200
Polycyclic Aromatic Hydrocarbons Acenaphthene Acenaphthylene Acridine Anthracene Benz(a)anthracene	<90 <30 <90 <20 <0.6
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene	0.6 <0.6 0.7 <0.9 <2
Dibenz(a,h)anthracene	0.9
Fluoranthene	<2
Fluorene	169
Indeno(1,2,3-c,d)pyrene	0.9
Naphthalene	2190
Phenanthrene	200
Pyrene	9.2
Quinoline	<200

Remarks regarding the analyses appear at the beginning of this report. Results are expressed as milligrams per dry kilogram except where noted. <= Less than the detection limit indicated. CWS = CCME - Canada Wide Standards. EPH = Extractable Petroleum Hydrocarbons. EPH10-19 is equivalent to EHw10-19. LEPH & HEPH = Light and Heavy Extractable Petroleum Hydrocarbons. VPH = Volatile Petroleum Hydrocarbons.

RESULTS OF ANALYSIS - Product



 Sample ID
 Drum 1

 Sample Date ALS ID
 02 07 12 1

 Extractable Hydrocarbons CWS Fraction 2 (C10-16) CWS Fraction 3 (C16-34) CWS Fraction 4 (C34-50) 332
 697000 232000 332

CWS Fraction 2 (C10-16) 697000
CWS Fraction 3 (C16-34) 232000
CWS Fraction 4 (C34-50) 332
EPH10-19 882000
EPH19-32 72600

LEPH 879000
HEPH 72600

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per dry kilogram except where noted.
< = Less than the detection limit indicated.
CWS = CCME - Canada Wide Standards.
EPH = Extractable Petroleum Hydrocarbons.
EPH10-19 is equivalent to EHw10-19.
LEPH & HEPH = Light and Heavy Extractable Petroleum Hydrocarbons.
VPH = Volatile Petroleum Hydrocarbons.

Appendix 1 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Miscellaneous Parameters and Matrices

The sample(s) submitted, or the parameters requested were identified as non-routine. Please refer to the remarks section of this report for information regarding this analysis.

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End of Report

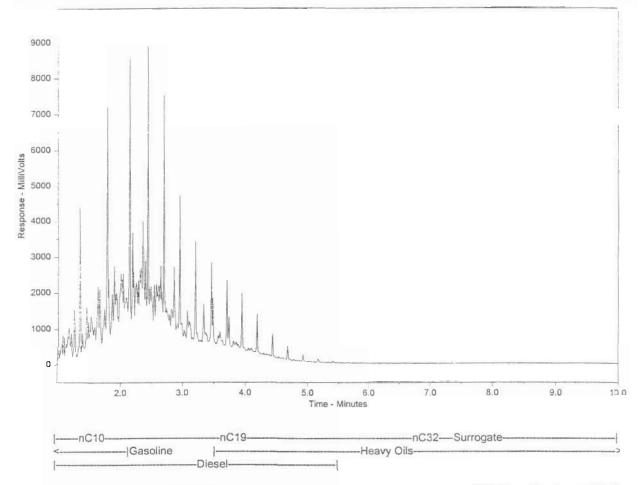
ALS Environmental - Hydrocarbon Distribution Report

Client Sample ID:

ALS Sample ID:

P7184-T--1#GC SCAN

File Name: Run Information: m:\Chrom\gc21\data\gc21_13augB.0009.RAW Acquired on GC21, 8/13/2002 7:20:40 PM



Sample Amount = 0.5 (g or mL)

Dilution Factor = 50.0

The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample. A current library of reference products is available upon request.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

A C35 surrogate compound is added to all samples by the laboratory as a component of quality control. Depending on the amount of heavy hydrocarbons present in the sample, this peak may or may not be visible near the end of the chromomatogram where indicated.

ALS Environmental - Hydrocarbon Distribution Report

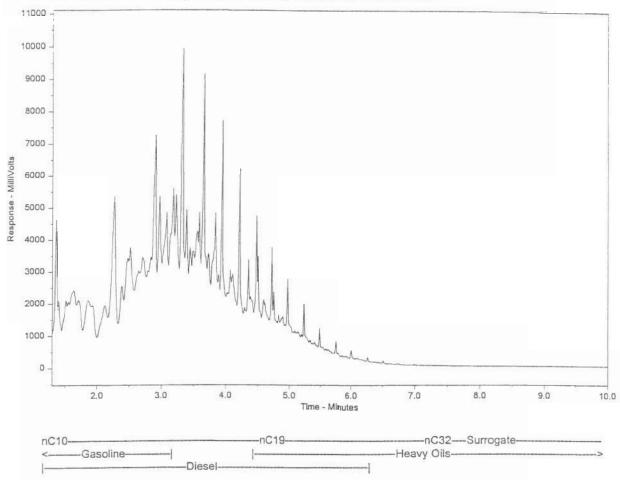
Client Sample ID:

ALS Sample ID:

HDR10 - Diesel

File Name: Run Information: I:\Chrom\gc21\data\may2002\gc21_01mayA.0035.RAW

Acquired on GC21, 5/3/2002 4:48:08 AM



Sample Amount = 0.0 (g or mL)

Dilution Factor = 0.0

The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample. A current library of reference products is available upon request.

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A C35 surrogate compound is added to all samples by the laboratory as a component of quality control. Depending on the amount of heavy hydrocarbons present in the sample, this peak may or may not be visible near the end of the chromomatogram where indicated.

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