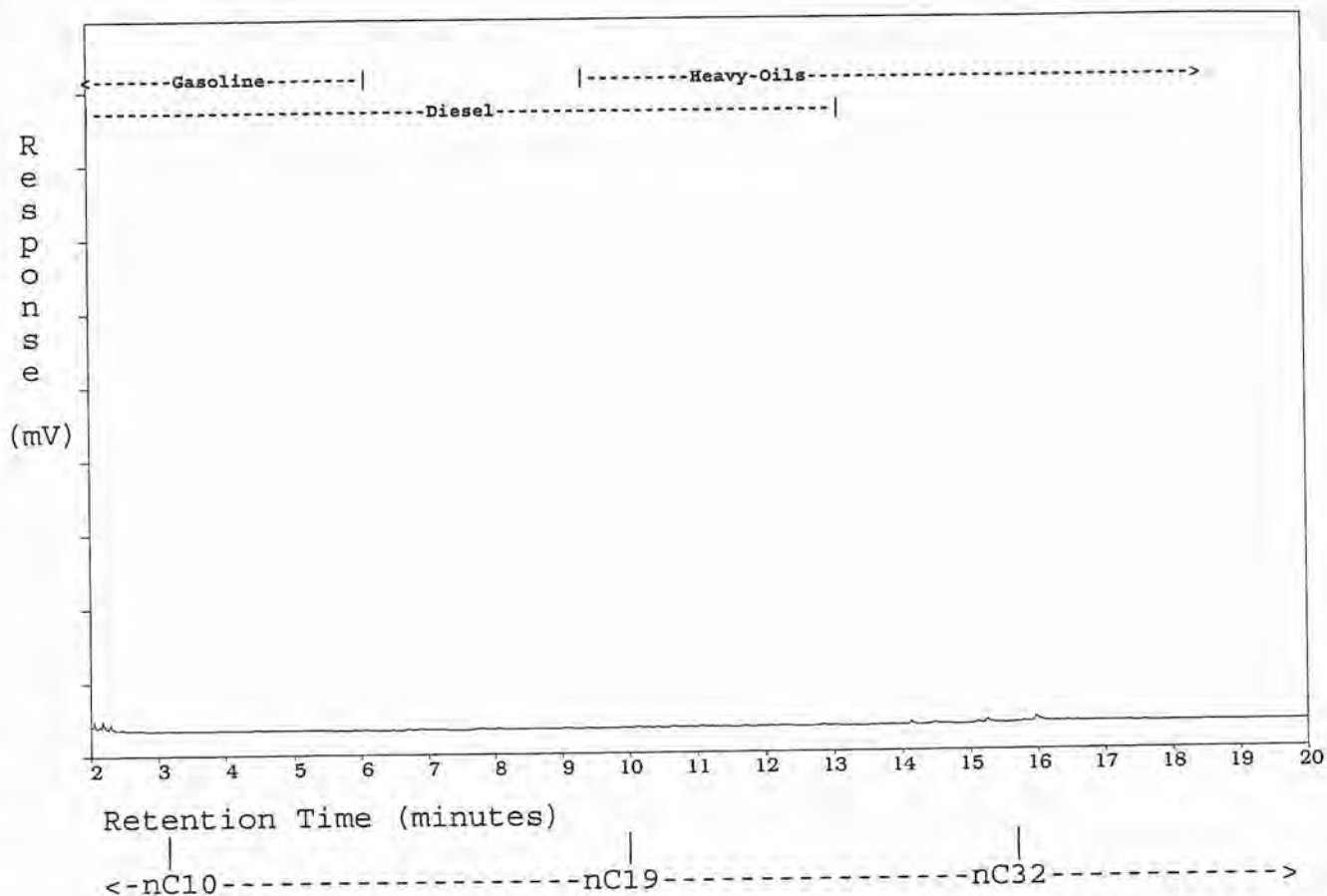


HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Wolver. Camp Rep 1

File Name: C:\TEH\JL22\EH1JL22.38R ASL Sample ID: K7753-T--3 Sample acquired: JUL 23, 1999 00:02:10
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 540.0 Dilution: 0.5

The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention times with the approximate positions of key marker compounds indicated. Comparison of this report with those of reference standards may also assist in characterizing the hydrocarbons present.

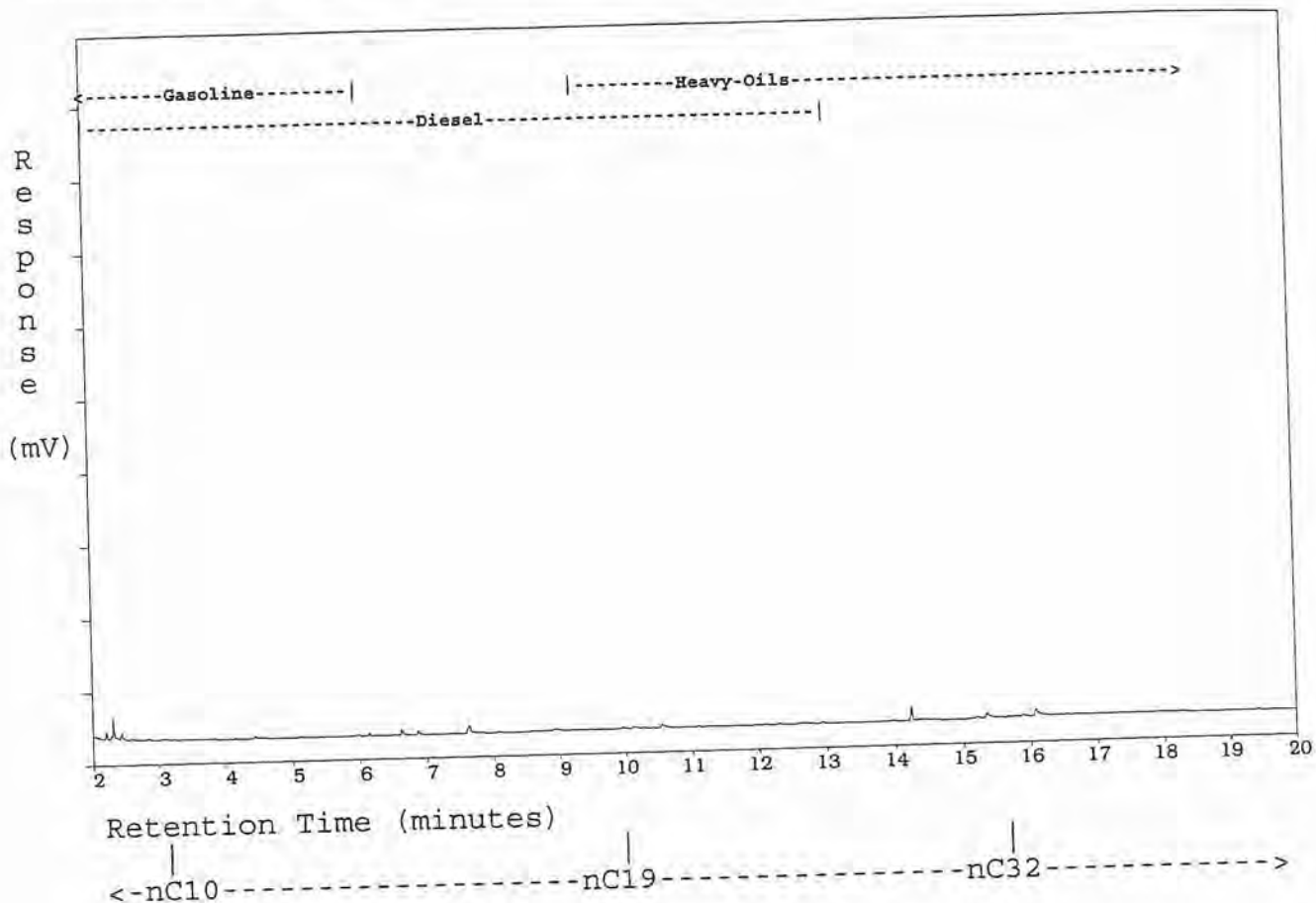
Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report with reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Wolver. Camp

Rep 2

File Name: C:\TEH\JL22\EH1JL22.39R ASL Sample ID: K7753-T--4 Sample acquired: JUL 23, 1999 00:37:21
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 510.0 Dilution: 0.5

The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention times with the approximate positions of key marker compounds indicated. Comparison of this report with those of reference standards may also assist in characterizing the hydrocarbons present.

Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report with reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ANALYSIS REQUESTED

[illegible]SUBMITTED: _____ CONTACT: ALAN

Physical Parameters
Total Metals (HNO_3)
NH₄ (H_2SO_4)
Faecal Coliforms
TPH

as per
faxed

Chen

Attified

NOQ

~~offices~~

10150

	50	

	5	✓

No

SPECIAL INSTRUCTIONS:

☐ AMBIENT

RELINQUISHED BY

DAT

[illegible]

DATE	TIME
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DAIRY



CHEMICAL ANALYSIS REPORT

Date: September 22, 1999
ASL File No. K9230
Report On: 526-9 Hope Bay Belt
Water Analysis
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: September 3, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:

A handwritten signature in black ink, appearing to read 'Frederick Chen'.

Frederick Chen, B.Sc. - Manager, Special Projects
Katherine Thomas, B.Sc. - Supervisor, Trace Metals Lab



RESULTS OF ANALYSIS - Water

File No. K9230

Sample ID

HBB

526-9

Sample Date

Water #1

99 08 31

Physical Tests

Conductivity	(umhos/cm)	3470
Total Dissolved Solids		2450
Hardness	CaCO ₃	1070
pH		7.48
Total Suspended Solids		46
Turbidity	(NTU)	41.6

Dissolved Anions

Acidity (to pH 8.3)		CaCO ₃	22
Alkalinity-Total		CaCO ₃	282
Chloride	Cl		629
Fluoride	F		0.17
Sulphate	SO ₄		597

Nutrients

Total Kjeldahl Nitrogen	N	10.0
-------------------------	---	------

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.



RESULTS OF ANALYSIS - Water

File No. K9230

Sample ID

HBB

526-9

Sample Date

Water #1

99 08 31

Total Metals

Aluminum	T-Al	0.5
Antimony	T-Sb	0.025
Arsenic	T-As	1.8
Barium	T-Ba	0.06
Beryllium	T-Be	<0.005
Bismuth	T-Bi	<0.1
Boron	T-B	0.6
Cadmium	T-Cd	<0.0002
Calcium	T-Ca	230
Chromium	T-Cr	0.008
Cobalt	T-Co	0.30
Copper	T-Cu	0.018
Iron	T-Fe	3.91
Lead	T-Pb	0.002
Lithium	T-Li	0.04
Magnesium	T-Mg	120
Manganese	T-Mn	1.37
Mercury	T-Hg	<0.00005
Molybdenum	T-Mo	0.008
Nickel	T-Ni	1.16
Phosphorus	T-P	0.3
Potassium	T-K	64
Selenium	T-Se	0.0052
Silicon	T-Si	5.62
Silver	T-Ag	0.0001
Sodium	T-Na	344
Strontium	T-Sr	1.79
Thallium	T-Tl	<0.2
Tin	T-Sn	<0.03
Titanium	T-Ti	<0.01
Vanadium	T-V	<0.03
Zinc	T-Zn	0.011

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

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

Conventional Parameters in Water

These analyses are carried out in accordance with procedures described in "Methods for Chemical Analysis of Water and Wastes" (USEPA), "Manual for the Chemical Analysis of Water, Wastewaters, Sediments and Biological Tissues" (BCMOE), and/or "Standard Methods for the Examination of Water and Wastewater" (APHA). Further details are available on request.

Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample:	6 months
Reference:	EPA
For more detail see:	ASL "Collection & Sampling Guide"

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic absorption spectrophotometry (EPA Method 7470A/7471A).

Recommended Holding Time:



METHODOLOGY (cont'd)

File No. K9230

Sample: 28 days
Reference: EPA
For more detail see: ASL "Collection & Sampling Guide"

End of Report

Appendix 2-1
Photographic Record of Soil Sampling Sites 4 – 18,
Boston Camp, July 1999

APPENDIX 2-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING SITES 4-18, BOSTON CAMP, JULY 1999



Site 4 - Downstream (east) of settling ponds, Boston Camp. Soil sample and water sample collected.



Site 5 - Downstream (east) of settling ponds and pad, Boston Camp. Soil sample collected.



Site 5 - Downstream (east) of settling ponds and pad, Boston Camp. Soil sample collected.



Site 6 - Site of old fuel cache, pin flags mark hydrocarbon vapour reading points. Soil sample collected from control and eastern pin flag.



Site 7 - Procon shop area. Pin flag second from left contained 31,310 ppm TPH in native soils at base of waste rock.



Site 8 - Salt barn region SSE of Pocon shop. Samples were collected for TPH and salt parameters at this pin flag.

APPENDIX 2-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING SITES 4-18, BOSTON CAMP, JULY 1999



Site 9 - South of ore storage pad and west of road. Sampled for TPH and salt parameters. Another salt burn.



Site 10 - Salt burn south of ore storage pad, east of road. TPH and salt parameters samples.



Site 11 - Salt burn northeast of north end of runway. TPH and salt parameters tested.



Site 12 - Salt burn northeast of north end of runway. TPH and salt parameters tested.



Site 13 - Salt burn northwest of end of runway, taken from the north. TPH and salt parameters tested.



Site 14 - Salt burn immediately northeast of end of runway. TPH and salt parameters tested.

APPENDIX 2-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING SITES 4-18, BOSTON CAMP, JULY 1999



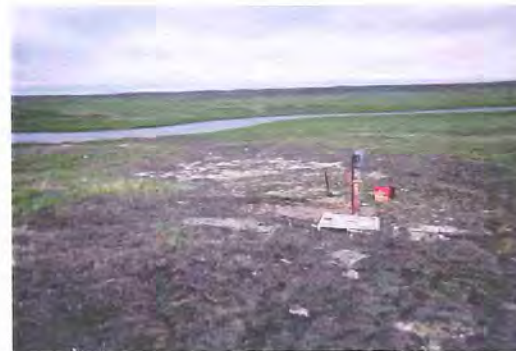
Site 15 - Looking north across salt burn zone.



Site 16 - Salt burn immediately east of road, midpoint approximately between ore storage pad and runway. TPH and salt parameters tested.



Site 17 - View west onto salt burn. TPH and salt parameters tested.



Site 18 - Salt burn, view to the east. TPH and salt parameters tested.

Appendix 3-1
Photographic Record of Stockpile Water Sampling
Sites 1-3, Boston Camp, July and August 1999

APPENDIX 3-1: PHOTOGRAPHIC RECORD OF STOCKPILE WATER SAMPLING SITES 1-3, BOSTON CAMP, JULY AND AUGUST, 1999



Site 1 - Standing water within ore/stockpiles near incinerator, Boston Camp.



Site 2 - Standing water at north end of ore/stockpiles. Collected water sample.



Site 3 - Downstream of runoff from ore/stockpiles/pad. On northeast side of pad. Collected water sample.



Site 3 - Closeup of green algae at Site 3.

APPENDIX 3-1: PHOTOGRAPHIC RECORD OF STOCKPILE WATER SAMPLING SITES 1-3, BOSTON CAMP, JULY AND AUGUST, 1999



Location of water sample collection, August 31, 1999, Boston Camp orepiles.



Water sample collection on August 31, 1999, Boston Camp orepiles.



Location of water sample collection, August 31, 1999, Boston Camp orepiles.

Appendix 4-1
Photographic Record of Sampling Sites from Windy
Camp and Patch Lake, July 1999

APPENDIX 4-1: PHOTOGRAPHIC RECORD OF SAMPLING SITES FROM WINDY CAMP AND PATCH LAKE, JULY 1999



Salt burn near south end of Patch Lake. Soil sample collected for salt parameters.



Salt burn near south end of Patch Lake.



ATV burn site near south end of Patch Lake. Soil sample collected for TPH and salt parameters.



Diesel spill at 7th tent from north at Windy Lake Camp. Soil sample collected for TPH. Windstorm in fall of 1998 caused damage to tents and fuel storage setup.



Diesel spill at 4th tent from north at Windy Lake Camp. Soil sample collected for TPH. Windstorm in fall of 1998 caused damage to tents and fuel storage setup.

Appendix 7-1
Photographic Record of Soil Sampling
Locations Downstream of Settling Ponds,
Boston Camp, August 1999

**APPENDIX 7-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING
LOCATIONS DOWNSTREAM OF SETTLING
PONDS, BOSTON CAMP, AUGUST 1999**



Settling Ponds at Boston Camp, August 31, 1999. Note northern pond is lined, and southern pond is unlined. Also note supersacks in southern pond.



Tundra burns downstream of settling ponds, Boston Camp, August 31, 1999.



Soil Sample #1, August 31, 1999. Surface sample; collected within the top 10 cm.



Soil Sample #2, August 31, 1999. Surface sample.



Soil Sample #3, August 31, 1999. Surface sample.



Soil Sample #4, August 31, 1999. Surface sample.

APPENDIX 7-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING LOCATIONS DOWNSTREAM OF SETTLING PONDS, BOSTON CAMP, AUGUST 1999



Soil Sample #5, August 31, 1999. Subsurface sample; collected 10-15 cm below surface. Collected below #3.



Soil Sample #6, August 31, 1999. Surface sample.



Soil Sample #7, August 31, 1999. Surface sample.



Soil Sample #8, August 31, 1999. Surface sample.



Soil Sample #9, August 31, 1999. Subsurface sample (below #8).



Soil Sample #10, August 31, 1999. Surface sample.

**APPENDIX 7-1: PHOTOGRAPHIC RECORD OF
SOIL SAMPLING LOCATIONS DOWNSTREAM OF
SETTLING PONDS, BOSTON CAMP, AUGUST 1999**



Soil Sample #11, August 31, 1999. Surface sample.



Soil Sample #12, August 31, 1999. Surface sample.



Soil Sample #13, August 31, 1999. Surface sample.
Coincides with Site #5 from July survey.



Soil Sample #14, August 31, 1999. Surface sample.



Soil Sample #15, August 31, 1999. Surface sample.



Soil Sample #16, August 31, 1999. Subsurface sam-
ple (below #15).

**APPENDIX 7-1: PHOTOGRAPHIC RECORD OF
SOIL SAMPLING LOCATIONS DOWNSTREAM OF
SETTLING PONDS, BOSTON CAMP, AUGUST 1999**



Soil Sample #17, August 31, 1999. Surface sample.



Soil Sample #18, August 31, 1999. Surface sample.



Soil Sample #19, August 31, 1999. Surface sample.



Soil Sample #20, August 31, 1999. Surface sample.



Soil Sample #21, August 31, 1999. Subsurface sample (below #20).



Soil Sample #22, August 31, 1999. Surface sample.

**APPENDIX 7-1: PHOTOGRAPHIC RECORD OF
SOIL SAMPLING LOCATIONS DOWNSTREAM OF
SETTLING PONDS, BOSTON CAMP, AUGUST 1999**



Soil Sample #23, August 31, 1999. Surface sample.



Soil Sample #24, August 31, 1999. Surface sample.



Soil Sample #25, August 31, 1999. Surface sample.
Coincides with Site #4 from July survey.



Soil Sample #26, August 31, 1999. Surface sample.



Soil Sample #27, August 31, 1999. Subsurface sample
(below #26).



Soil Sample #28, August 31, 1999. Surface sample.

APPENDIX 7-1: PHOTOGRAPHIC RECORD OF SOIL SAMPLING LOCATIONS DOWNSTREAM OF SETTLING PONDS, BOSTON CAMP, AUGUST 1999



Soil Sample #29, August 31, 1999. Surface sample (below #30).



Soil Sample #30, August 31, 1999. Subsurface sample.



Soil Sample #31, August 31, 1999. Subsurface sample. Control sample, 15 m from edge of tundra burn.



Soil Sample #32, August 31, 1999. Subsurface sample. Control sample, 15 m from edge of tundra burn.



Soil Sample #33, August 31, 1999. Subsurface sample. Control sample, 15 m from edge of tundra burn.

Appendix 7-2
Analytical Results from Soil Samples,
Boston Camp, August 1999



CHEMICAL ANALYSIS REPORT

Date: October 4, 1999
ASL File No. K9231r
Report On: 526-9 Hope Bay Belt
Soil Analysis
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: September 3, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.

per:

A handwritten signature in cursive script, likely belonging to Frederick Chen, is written over the printed name.

Frederick Chen, B.Sc. - Manager, Special Projects
Katherine Thomas, B.Sc. - Supervisor, Trace Metals Lab



REMARKS

File No. K9231r

Please note that the submitted soil samples were fairly heterogeneous in nature making representative subsamples somewhat difficult to obtain for analysis. Samples with elevated moisture contents (i.e. >65%) required increases to the detection limits for metals and volatiles (BETX/VPH).

Note that the sample containers for volatiles had substantial headspace present (about one quarter of the jar). Little or no headspace minimizes any potential volatile losses during transport or storage.



RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9 Soil #1	HBB 526-9 Soil #2	HBB 526-9 Soil #3	HBB 526-9 Soil #4	HBB 526-9 Soil #5
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Physical Tests

Moisture	%	14.2	65.5	34.2	15.8	20.6
pH		4.57	4.90	7.71	4.75	5.65

Dissolved Anions

Chloride	Cl	759	12500	2590	48	998
Sulphate	SO4	44	261	281	20	90

Total Metals

Aluminum	T-Al	15100	19100	25600	6390	6170
Antimony	T-Sb	<20	<40	<20	<20	<20
Arsenic	T-As	<5	<10	105	<5	<5
Barium	T-Ba	74	184	199	30	26
Beryllium	T-Be	<0.5	<1	<0.5	<0.5	<0.5
Bismuth	T-Bi	<10	<20	<10	<10	<10
Cadmium	T-Cd	<2	<4	<2	<2	<2
Calcium	T-Ca	6320	11500	53100	4310	4940
Chromium	T-Cr	36	33	367	16	14
Cobalt	T-Co	8	23	36	4	3
Copper	T-Cu	19	50	115	6	14
Iron	T-Fe	22000	22300	65400	12600	11100
Lead	T-Pb	<50	<100	<50	<50	<50
Lithium	T-Li	22	18	22	8	7
Magnesium	T-Mg	7080	5920	45900	3270	2930
Manganese	T-Mn	244	341	1090	139	117
Molybdenum	T-Mo	<4	<8	<4	<4	<4
Nickel	T-Ni	16	28	114	7	7
Phosphorus	T-P	472	1150	194	422	349
Potassium	T-K	3250	4280	2890	1110	1080
Selenium	T-Se	<50	<100	<50	<50	<50
Silver	T-Ag	<2	<4	16	<2	<2
Strontium	T-Sr	50.5	153	113	28.7	34.0
Thallium	T-Tl	<50	<100	<50	<50	<50
Tin	T-Sn	<10	<20	<10	<10	<10
Titanium	T-Ti	1010	812	24	597	564
Vanadium	T-V	46	42	89	27	23
Zinc	T-Zn	34	39	74	18	15

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.
 VPH = Volatile Petroleum Hydrocarbons.
 EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9 Soil #1	HBB 526-9 Soil #2	HBB 526-9 Soil #3	HBB 526-9 Soil #4	HBB 526-9 Soil #5
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium	Ca	264	1680	903	13.1	330
Magnesium	Mg	34	316	213	8	75
Potassium	K	60	140	90	<20	40
Sodium Adsorption Ratio (SAR)		0.5	0.7	0.8	<0.1	0.7
Sodium	Na	100	400	310	<20	160

Non-halogenated Volatiles

Benzene	<0.04	<0.08	<0.04	<0.04	<0.04
Ethylbenzene	<0.05	<0.1	<0.05	<0.05	<0.05
Styrene	<0.05	<0.1	<0.05	<0.05	<0.05
Toluene	<0.05	<0.1	<0.05	<0.05	<0.05
meta- & para-Xylene	<0.05	<0.1	<0.05	<0.05	<0.05
ortho-Xylene	<0.05	<0.1	<0.05	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<100	<200	<100	<100	<100
VPH C6-10 (calculated)	<100	<200	<100	<100	<100

Extractables

EPH (C10-19)	<200	<200	276	<200	<200
EPH (C19-32)	<200	335	2940	<200	<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.
VPH = Volatile Petroleum Hydrocarbons.
EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9
Sample Date	Soil #6 99 08 31	Soil #7 99 08 31	Soil #8 99 08 31	Soil #9 99 08 31	Soil #10 99 08 31

Physical Tests

Moisture	%	14.8	15.4	34.3	43.1	16.1
pH		4.70	4.44	5.94	5.18	4.88

Dissolved Anions

Chloride	Cl	2240	2800	10100	3130	284
Sulphate	SO4	74	99	948	195	24

Total Metals

Aluminum	T-Al	14400	13700	17500	7400	7580
Antimony	T-Sb	<20	<20	<20	<20	<20
Arsenic	T-As	<5	<5	10	<5	<5
Barium	T-Ba	55	67	84	27	30
Beryllium	T-Be	<0.5	<0.5	<0.5	<0.5	<0.5
Bismuth	T-Bi	<10	<10	<10	<10	<10
Cadmium	T-Cd	<2	<2	<2	<2	<2
Calcium	T-Ca	6540	5920	11000	5980	4140
Chromium	T-Cr	34	34	26	16	23
Cobalt	T-Co	8	7	9	4	4
Copper	T-Cu	21	13	20	10	6
Iron	T-Fe	20800	20100	21000	11800	12300
Lead	T-Pb	<50	<50	<50	<50	<50
Lithium	T-Li	19	19	14	9	10
Magnesium	T-Mg	6500	6750	6610	3690	4090
Manganese	T-Mn	229	209	292	141	130
Molybdenum	T-Mo	<4	<4	<4	<4	<4
Nickel	T-Ni	16	15	18	8	9
Phosphorus	T-P	494	492	498	485	448
Potassium	T-K	2970	2830	2450	1110	1440
Selenium	T-Se	<50	<50	<50	<50	<50
Silver	T-Ag	<2	<2	<2	<2	<2
Strontium	T-Sr	45.3	38.4	93.5	46.9	24.8
Thallium	T-Tl	<50	<50	<50	<50	<50
Tin	T-Sn	<10	<10	<10	<10	<10
Titanium	T-Ti	1080	985	865	699	660
Vanadium	T-V	45	44	33	24	30
Zinc	T-Zn	32	35	53	19	19

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.
 VPH = Volatile Petroleum Hydrocarbons.
 EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9 Soil #6	HBB 526-9 Soil #7	HBB 526-9 Soil #8	HBB 526-9 Soil #9	HBB 526-9 Soil #10
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium	Ca	465	775	2950	835	68.8
Magnesium	Mg	117	190	856	200	18
Potassium	K	50	60	130	50	<20
Sodium Adsorption Ratio (SAR)		0.6	0.6	0.9	0.7	0.4
Sodium	Na	180	240	700	270	40

Non-halogenated Volatiles

Benzene	<0.04	<0.04	<0.04	<0.04	0.13
Ethylbenzene	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	<0.05	<0.05	<0.05	<0.05	<0.05
meta- & para-Xylene	<0.05	<0.05	<0.05	<0.05	<0.05
ortho-Xylene	<0.05	<0.05	<0.05	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<100	<100	<100	<100	<100
VPH C6-10 (calculated)	<100	<100	<100	<100	<100

Extractables

EPH (C10-19)	<200	<200	<200	<200	<200
EPH (C19-32)	<200	<200	522	<200	<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.
VPH = Volatile Petroleum Hydrocarbons.
EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9
Sample Date	Soil #11 99 08 31	Soil #12 99 08 31	Soil #13 99 08 31	Soil #14 99 08 31	Soil #15 99 08 31

Physical Tests

Moisture	%	26.3	29.4	40.8	16.7	84.8
pH		7.49	4.92	5.92	5.45	4.71

Dissolved Anions

Chloride	Cl	8150	331	3420	181	141000
Sulphate	SO4	526	24	350	21	15100

Total Metals

Aluminum	T-Al	22400	7590	13700	9420	6480
Antimony	T-Sb	<20	<20	<20	<20	<40
Arsenic	T-As	23	<5	<5	<5	43
Barium	T-Ba	116	35	54	38	168
Beryllium	T-Be	<0.5	<0.5	<0.5	<0.5	<1
Bismuth	T-Bi	<10	<10	<10	<10	<20
Cadmium	T-Cd	<2	<2	<2	<2	<4
Calcium	T-Ca	39000	3970	8210	5550	30300
Chromium	T-Cr	49	17	33	24	14
Cobalt	T-Co	19	4	7	5	32
Copper	T-Cu	71	8	15	8	29
Iron	T-Fe	48900	11400	19600	14300	8660
Lead	T-Pb	<50	<50	<50	<50	<100
Lithium	T-Li	16	11	18	11	7
Magnesium	T-Mg	13600	3670	6620	4510	5060
Manganese	T-Mn	1110	117	197	176	468
Molybdenum	T-Mo	7	<4	<4	<4	<8
Nickel	T-Ni	49	8	16	9	20
Phosphorus	T-P	636	434	469	451	1050
Potassium	T-K	2810	1370	2710	1500	2840
Selenium	T-Se	<50	<50	<50	<50	<100
Silver	T-Ag	8	<2	<2	<2	<4
Strontium	T-Sr	116	22.8	71.0	31.8	337
Thallium	T-Tl	<50	<50	<50	<50	<100
Tin	T-Sn	<10	<10	<10	<10	<20
Titanium	T-Ti	408	626	1010	781	215
Vanadium	T-V	68	24	42	32	13
Zinc	T-Zn	123	20	33	21	23

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.
 VPH = Volatile Petroleum Hydrocarbons.
 EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9 Soil #11 99 08 31	HBB 526-9 Soil #12 99 08 31	HBB 526-9 Soil #13 99 08 31	HBB 526-9 Soil #14 99 08 31	HBB 526-9 Soil #15 99 08 31
Sample Date					

Extractable Metals

Calcium	Ca	2150	89.3	1050	53.2	12400
Magnesium	Mg	538	25	186	27	2320
Potassium	K	150	<20	150	<20	1020
Sodium Adsorption Ratio (SAR)		0.8	0.2	1.1	<0.1	3.0
Sodium	Na	520	30	450	<20	4320

Non-halogenated Volatiles

Benzene	<0.04	<0.04	<0.04	<0.04	<0.08
Ethylbenzene	<0.05	<0.05	<0.05	<0.05	<0.1
Styrene	<0.05	<0.05	<0.05	<0.05	<0.1
Toluene	<0.05	<0.05	<0.05	<0.05	<0.1
meta- & para-Xylene	<0.05	<0.05	<0.05	<0.05	<0.1
ortho-Xylene	<0.05	<0.05	<0.05	<0.05	<0.1
Volatile Hydrocarbons (VH) C6-10	<100	<100	<100	<500	<200
VPH C6-10 (calculated)	<100	<100	<100	<500	<200

Extractables

EPH (C10-19)	<200	<200	<200	<200	<200
EPH (C19-32)	1560	<200	<200	<200	368

Remarks regarding the analyses appear at the beginning of this report.
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VPH = Volatile Petroleum Hydrocarbons.
EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9
Sample Date	Soil #16 99 08 31	Soil #17 99 08 31	Soil #18 99 08 31	Soil #19 99 08 31	Soil #20 99 08 31

Physical Tests

Moisture	%	64.5	31.8	52.0	15.7	43.2
pH		5.60	5.59	4.88	5.72	7.39

Dissolved Anions

Chloride	Cl	21800	307	5750	62	5400
Sulphate	SO ₄	2030	13	510	19	854

Total Metals

Aluminum	T-Al	21900	14100	10500	17000	27600
Antimony	T-Sb	<40	<20	<20	<20	<20
Arsenic	T-As	<10	<5	<5	<5	21
Barium	T-Ba	115	88	44	79	216
Beryllium	T-Be	<1	<0.5	<0.5	<0.5	<0.5
Bismuth	T-Bi	<20	<10	<10	<10	<10
Cadmium	T-Cd	<4	<2	<2	<2	<2
Calcium	T-Ca	16700	6720	8100	6410	48100
Chromium	T-Cr	43	30	25	40	125
Cobalt	T-Co	10	7	7	7	27
Copper	T-Cu	30	16	13	18	185
Iron	T-Fe	24700	17400	15800	21600	61200
Lead	T-Pb	<100	<50	<50	<50	<50
Lithium	T-Li	25	16	14	21	26
Magnesium	T-Mg	8400	6080	5030	7640	20100
Manganese	T-Mn	256	210	180	242	1050
Molybdenum	T-Mo	<8	<4	<4	<4	17
Nickel	T-Ni	22	14	12	16	62
Phosphorus	T-P	938	585	567	486	422
Potassium	T-K	5300	2740	2230	3270	3170
Selenium	T-Se	<100	<50	<50	<50	<50
Silver	T-Ag	<4	<2	<2	<2	28
Strontium	T-Sr	187	37.5	68.4	39.3	115
Thallium	T-Tl	<100	<50	<50	<50	<50
Tin	T-Sn	<20	<10	<10	<10	<10
Titanium	T-Ti	1260	872	904	1150	33
Vanadium	T-V	51	36	36	49	79
Zinc	T-Zn	49	31	25	39	128

Remarks regarding the analyses appear at the beginning of this report.
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 VPH = Volatile Petroleum Hydrocarbons.
 EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9 Soil #16	HBB 526-9 Soil #17	HBB 526-9 Soil #18	HBB 526-9 Soil #19	HBB 526-9 Soil #20
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium	Ca	3460	64.6	1740	24.6	1590
Magnesium	Mg	593	37	335	32	396
Potassium	K	360	<20	150	<20	130
Sodium Adsorption Ratio (SAR)		1.7	0.2	1.1	<0.1	1.1
Sodium	Na	1290	30	610	<20	600

Non-halogenated Volatiles

Benzene	<0.08	0.04	<0.08	<0.04	<0.04
Ethylbenzene	<0.1	<0.05	<0.1	<0.05	<0.05
Styrene	<0.1	<0.05	<0.1	<0.05	<0.05
Toluene	<0.1	<0.05	<0.1	<0.05	<0.05
meta- & para-Xylene	<0.1	<0.05	<0.1	<0.05	<0.05
ortho-Xylene	<0.1	<0.05	<0.1	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<100	<200	<200	<100	<100
VPH C6-10 (calculated)	<100	<200	<200	<100	<100

Extractables

EPH (C10-19)	<200	<200	<200	<200	3180
EPH (C19-32)	<200	<200	<200	<200	4860

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VPH = Volatile Petroleum Hydrocarbons.
EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9
Sample Date	Soil #21 99 08 31	Soil #22 99 08 31	Soil #23 99 08 31	Soil #24 99 08 31	Soil #25 99 08 31

Physical Tests

Moisture	%	43.7	20.7	33.1	16.9	40.2
pH		5.22	5.82	7.88	5.66	7.53

Dissolved Anions

Chloride	Cl	3530	146	2820	92	6750
Sulphate	SO4	368	20	518	<10	2390

Total Metals

Aluminum	T-Al	9180	19200	29600	17900	27700
Antimony	T-Sb	<20	<20	<20	<20	<20
Arsenic	T-As	<5	<5	89	<5	190
Barium	T-Ba	37	90	232	85	67
Beryllium	T-Be	<0.5	0.5	<0.5	<0.5	<0.5
Bismuth	T-Bi	<10	<10	<10	<10	<10
Cadmium	T-Cd	<2	<2	<2	<2	<2
Calcium	T-Ca	7340	7590	64900	6920	43800
Chromium	T-Cr	34	45	169	43	364
Cobalt	T-Co	6	9	40	8	48
Copper	T-Cu	18	16	157	16	143
Iron	T-Fe	14800	26600	77300	23800	59900
Lead	T-Pb	<50	<50	<50	<50	<50
Lithium	T-Li	10	24	34	22	28
Magnesium	T-Mg	4870	8400	30500	7800	23300
Manganese	T-Mn	168	268	1570	268	965
Molybdenum	T-Mo	<4	<4	16	<4	<4
Nickel	T-Ni	14	18	84	17	176
Phosphorus	T-P	643	570	282	538	436
Potassium	T-K	1350	4070	2020	3790	2410
Selenium	T-Se	<50	<50	<50	<50	<50
Silver	T-Ag	<2	<2	19	<2	8
Strontium	T-Sr	59.9	47.0	108	44.2	108
Thallium	T-Tl	<50	<50	<50	<50	<50
Tin	T-Sn	<10	<10	<10	<10	<10
Titanium	T-Ti	761	1280	66	1190	7
Vanadium	T-V	33	56	118	52	112
Zinc	T-Zn	24	42	99	40	148

Remarks regarding the analyses appear at the beginning of this report.
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 EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9 Soil #21	HBB 526-9 Soil #22	HBB 526-9 Soil #23	HBB 526-9 Soil #24	HBB 526-9 Soil #25
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium Ca	733	56.1	1170	29.8	2300
Magnesium Mg	174	55	299	38	392
Potassium K	80	30	70	<20	190
Sodium Adsorption Ratio (SAR)	1.0	0.2	0.7	0.2	1.1
Sodium Na	380	30	320	20	670

Non-halogenated Volatiles

Benzene	0.05	<0.04	<0.04	<0.04	0.05
Ethylbenzene	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	<0.05	<0.05	<0.05	<0.05	<0.05
meta- & para-Xylene	<0.05	<0.05	<0.05	<0.05	<0.05
ortho-Xylene	<0.05	<0.05	<0.05	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<100	<100	<100	<100	<100
VPH C6-10 (calculated)	<100	<100	<100	<100	<100

Extractables

EPH (C10-19)	296	<200	269	<200	438
EPH (C19-32)	<200	<200	1170	<200	7930

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**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9	HBB 526-9
Sample Date	Soil #26 99 08 31	Soil #27 99 08 31	Soil #28 99 08 31	Soil #29 99 08 31	Soil #30 99 08 31

Physical Tests

Moisture	%	62.3	25.6	18.4	39.7	33.2
pH		6.89	6.33	7.08	7.63	6.40

Dissolved Anions

Chloride	Cl	11800	3060	2540	2780	1410
Sulphate	SO ₄	2970	642	289	796	282

Total Metals

Aluminum	T-Al	28900	9000	7200	25200	8690
Antimony	T-Sb	<20	<20	<20	<20	<20
Arsenic	T-As	319	<5	<5	321	7
Barium	T-Ba	72	39	48	238	38
Beryllium	T-Be	<0.5	<0.5	<0.5	<0.5	<0.5
Bismuth	T-Bi	<10	<10	<10	<10	<10
Cadmium	T-Cd	<2	<2	<2	<2	<2
Calcium	T-Ca	25400	6950	6610	48800	6800
Chromium	T-Cr	356	20	17	13	19
Cobalt	T-Co	57	7	5	41	5
Copper	T-Cu	102	12	20	224	13
Iron	T-Fe	49300	13600	13700	95200	15000
Lead	T-Pb	<50	<50	<50	<50	<50
Lithium	T-Li	52	12	7	17	11
Magnesium	T-Mg	16500	4200	3100	23900	4930
Manganese	T-Mn	542	152	189	1300	170
Molybdenum	T-Mo	<4	<4	<4	55	<4
Nickel	T-Ni	170	12	10	46	12
Phosphorus	T-P	607	548	469	352	414
Potassium	T-K	2950	1830	1230	3110	1580
Selenium	T-Se	<50	<50	<50	<50	<50
Silver	T-Ag	7	<2	<2	48	<2
Strontium	T-Sr	129	66.1	47.1	118	55.4
Thallium	T-Tl	<50	<50	<50	<50	<50
Tin	T-Sn	<10	<10	<10	<10	<10
Titanium	T-Ti	22	768	619	86	625
Vanadium	T-V	111	29	24	109	30
Zinc	T-Zn	148	23	29	130	26

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RESULTS OF ANALYSIS - Sediment/Soil

File No. K9231r

Sample ID	HBB 526-9 Soil #26	HBB 526-9 Soil #27	HBB 526-9 Soil #28	HBB 526-9 Soil #29	HBB 526-9 Soil #30
Sample Date	99 08 31	99 08 31	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium	Ca	2870	720	987	838	503
Magnesium	Mg	478	112	166	163	100
Potassium	K	290	120	60	130	80
Sodium Adsorption Ratio (SAR)		1.5	1.0	0.7	0.9	0.8
Sodium	Na	1070	350	280	350	250

Non-halogenated Volatiles

Benzene	0.08	0.05	<0.04	0.05	0.06
Ethylbenzene	<0.1	<0.05	<0.05	<0.05	<0.05
Styrene	<0.1	<0.05	<0.05	<0.05	<0.05
Toluene	<0.1	<0.05	<0.05	<0.05	<0.05
meta- & para-Xylene	0.1	<0.05	<0.05	<0.05	<0.05
ortho-Xylene	<0.1	<0.05	<0.05	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<200	<100	<100	<100	<100
VPH C6-10 (calculated)	<200	<100	<100	<100	<100

Extractables

EPH (C10-19)	289	<200	<200	<200	<200
EPH (C19-32)	5900	<200	<200	1390	<200

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**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9 Soil #31	HBB 526-9 Soil #32	HBB 526-9 Soil #33
Sample Date	99 08 31	99 08 31	99 08 31

Physical Tests

Moisture	%	19.5	13.6	24.4
pH		5.63	6.15	5.00

Dissolved Anions

Chloride	Cl	63	29	199
Sulphate	SO4	12	<10	15

Total Metals

Aluminum	T-Al	20600	20900	9720
Antimony	T-Sb	<20	<20	<20
Arsenic	T-As	<5	<5	<5
Barium	T-Ba	95	103	39
Beryllium	T-Be	0.5	0.6	<0.5
Bismuth	T-Bi	<10	<10	<10
Cadmium	T-Cd	<2	<2	<2
Calcium	T-Ca	6750	6350	4830
Chromium	T-Cr	50	49	22
Cobalt	T-Co	10	9	5
Copper	T-Cu	14	16	11
Iron	T-Fe	29600	26400	15800
Lead	T-Pb	<50	<50	<50
Lithium	T-Li	25	26	11
Magnesium	T-Mg	8720	8540	4220
Manganese	T-Mn	257	264	168
Molybdenum	T-Mo	<4	<4	<4
Nickel	T-Ni	20	20	9
Phosphorus	T-P	538	550	447
Potassium	T-K	3940	4700	1410
Selenium	T-Se	<50	<50	<50
Silver	T-Ag	<2	<2	<2
Strontium	T-Sr	45.7	46.7	31.1
Thallium	T-Tl	<50	<50	<50
Tin	T-Sn	<10	<10	<10
Titanium	T-Ti	1380	1240	835
Vanadium	T-V	62	56	32
Zinc	T-Zn	47	43	21

Remarks regarding the analyses appear at the beginning of this report.
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**RESULTS OF ANALYSIS - Sediment/Soil**

File No. K9231r

Sample ID	HBB 526-9 Soil #31	HBB 526-9 Soil #32	HBB 526-9 Soil #33
Sample Date	99 08 31	99 08 31	99 08 31

Extractable Metals

Calcium Ca	24.2	42.7	33.7
Magnesium Mg	43	78	19
Potassium K	<20	30	<20
Sodium Adsorption Ratio (SAR)	<0.1	<0.1	<0.1
Sodium Na	<20	<20	<20

Non-halogenated Volatiles

Benzene	0.04	0.04	0.08
Ethylbenzene	<0.05	<0.05	<0.05
Styrene	<0.05	<0.05	<0.05
Toluene	<0.05	<0.05	<0.05
meta- & para-Xylene	<0.05	<0.05	<0.05
ortho-Xylene	<0.05	<0.05	<0.05
Volatile Hydrocarbons (VH) C6-10	<100	<100	<100
VPH C6-10 (calculated)	<100	<100	<100

Extractables

EPH (C10-19)	<200	<200	<200
EPH (C19-32)	<200	<200	<200

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per dry kilogram except where noted.
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EPH = Extractable Petroleum Hydrocarbons.



METHODOLOGY

File No. K9231r

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

Moisture in Sediment/Soil

This analysis is carried out gravimetrically by drying the sample at 103 C for a minimum of six hours.

Recommended Holding Time:

Sample: 14 days

Reference: Puget

For more detail see: ASL "Collection & Sampling Guide"

pH in Soil

This analysis is carried out in accordance with procedures described in "Soil Sampling and Methods of Analysis" (CSSS). The procedure involves mixing the air-dried sample with deionized/distilled water. The pH of the solution is then measured using a standard pH probe. A one to two ratio of sediment to water is used for mineral soils and a one to ten ratio is used for highly organic soils.

Conventional Parameters in Sediment/Soil

These analyses are carried out on a leachable basis. The procedure involves mixing the sample with reagent grade water in a one to ten ratio and leaching for several hours. The leachate is filtered and analyzed in accordance with procedures described in "Methods for Chemical Analysis of Water and Wastes" (USEPA), "Manual for the Chemical Analysis of Water, Wastewaters, Sediments and Biological Tissues" (BCMOE), and/or "Standard Methods for the Examination of Water and Wastewater" (APHA). Further details are available on request.

Metals in Sediment/Soil

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 Method 3050B or Method 3051, published by the United States Environmental Protection Agency (EPA). The sample is manually homogenized and a representative subsample of the wet material is weighed. The sample is then digested by either hotplate or microwave oven using a 1:1 ratio of nitric acid and hydrochloric acid. Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000



series) and/or inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method is not a total digestion technique for most samples. It is a very strong acid digestion that will dissolve almost all elements that could become "environmentally available." By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

Recommended Holding Time:

Sample/Extract: 6 months (Mercury = 28 days)
Reference: EPA
For more detail see: ASL "Collection & Sampling Guide"

Sodium Adsorption Ratio (SAR) in Sediment/Soil

This analysis is adapted from the Sodium Adsorption Ratio method outlined in Soil Sampling and Methods of Analysis published by the Canadian Society of Soil Science, 1993. In summary, the equivalent of 10 dry grams of sample is extracted for a 1 hour period using 100 mL of deionized water. The resulting extract is then filtered or decanted and analysed by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B). The Sodium Adsorption Ratio (SAR) is then calculated from the Na, Ca and Mg results.

Recommended Holding Time:

Sample/Extract: 6 months
Reference: EPA
For more detail see: ASL "Collection & Sampling Guide"

Leachable Metals in Sediment/Soil

This analysis is carried out using a leaching procedure which involves the gentle tumbling of the sample in a specified leaching solution (typically deionized water) for a specific length of time. The resulting extract is then analysed by atomic absorption spectrophotometry (EPA Method 7000 series) and/or inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Recommended Holding Time:

Sample/Extract: 6 months (Mercury = 28 days)
Reference: EPA
For more detail see: ASL "Collection & Sampling Guide"

**Volatile Organic Compounds and Volatile Hydrocarbons in Sediment/Soil**

This analysis involves a extraction of the sediment/soil sample with methanol. Aliquots of the methanol extract are then analyzed for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection and for specific Volatile Organic Compounds (VOC) by capillary column gas chromatography with mass spectrometric detection. The VH analysis is carried out according to British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Solids by GC/FID" (Version 2.1 July 1999). Analysis of VOC is carried out using procedures adapted from the United States Environmental Protection Agency Methods 5035 and 8260 (Publ. # SW-846 3rd ed., Washington, DC 20460).

Recommended Holding Time:

Sample: 7 days

Extract: 40 days

Reference: BCMELP

For more detail see ASL "Collection & Sampling Guide"

Volatile Petroleum Hydrocarbons (VPH) in Solids

These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Volatile Petroleum Hydrocarbons in Solids or Water" (Version 2.1, July 20, 1999). According to this method, the concentrations of specific Monocyclic Aromatic Hydrocarbons (Benzene, Toluene, Ethylbenzene, Xylenes and Styrene) are subtracted from the collective concentration of Volatile Hydrocarbons (VH) that elute between n-hexane (nC6) and n-decane (nC10). Analysis of Volatile Hydrocarbons adheres to all prescribed elements of BCMELP method "Volatile Hydrocarbons in Solids by GC/FID"(Version 2.1, July 20, 1999).

Recommended Holding Time: n/a

Extractable Hydrocarbons in Sediment/Soil

This analysis is carried out according to British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Solids by GC/FID, Version 2.1 July 1999". The procedure involves the extraction of the sample with a 1:1 mixture of Hexane and Acetone. The extract is then back extracted with water and analysed by capillary column gas chromatography with flame ionization detection. Reported results include Polycyclic Aromatic



METHODOLOGY (cont'd)

File No. K9231r

Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbon (LEPH/HEPH).

Please note that in August of 1999, BCMELP replaced the EPH(C10-18) and EPH(C19-31) parameters with EPH(C10-19) and EPH(C19-32). These parameters were redefined so that they more accurately describe how the analysis is carried out. Results reported by ASL for the old and new parameters are equivalent. ASL implemented the new parameters on August 23, 1999.

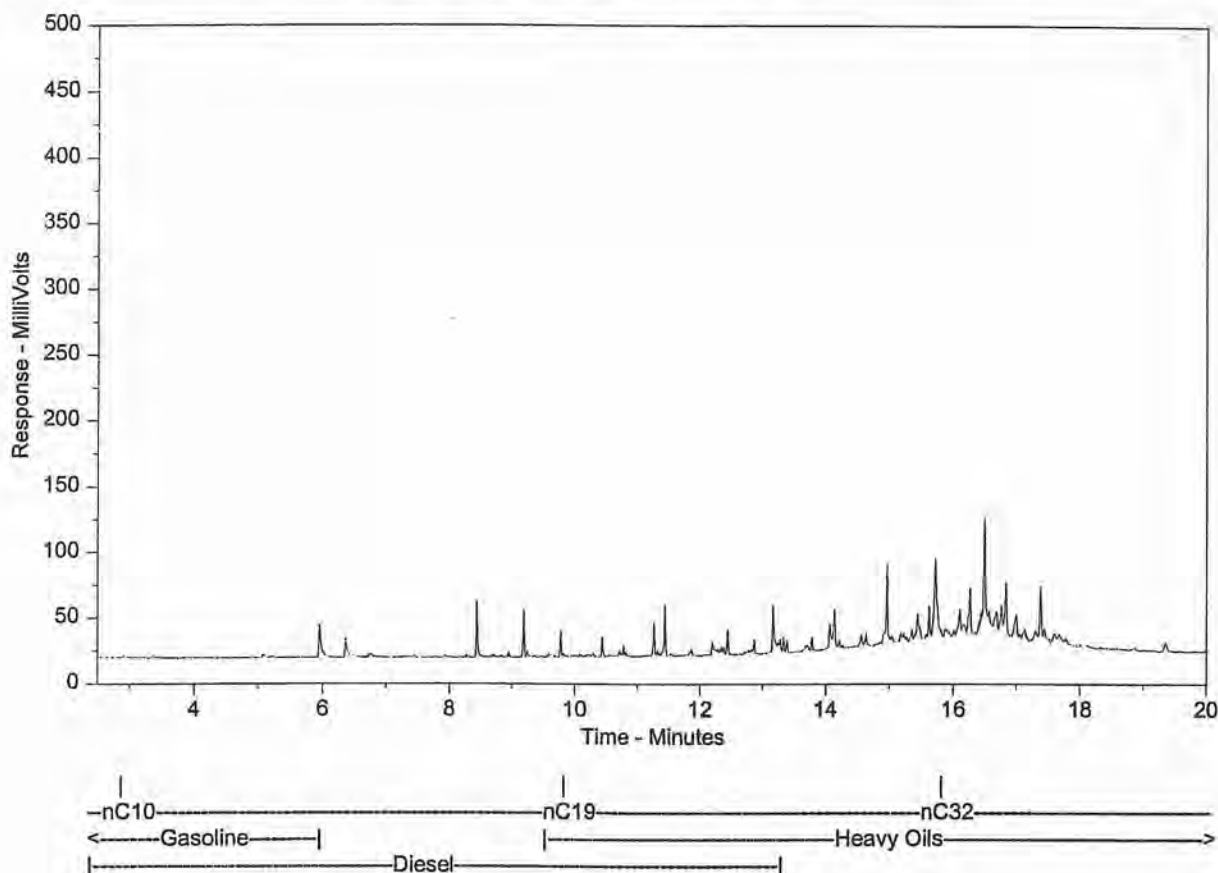
Recommended Holding Time:

Sample: 7 days Extract: 40 days

Reference: BCMELP

For more detail see ASL "Collection & Sampling Guide"

End of Report

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:** Soil #1**File Name:** C:\Chrom\gc12\data\08sep\gc12_08sepB.0011.RAW**Run Information:** Acquired on GC12, 9/8/99 8:56:05 PM

Sample Amount = 11.0 (g or mL)

Dilution Factor = 8.0

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.

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.

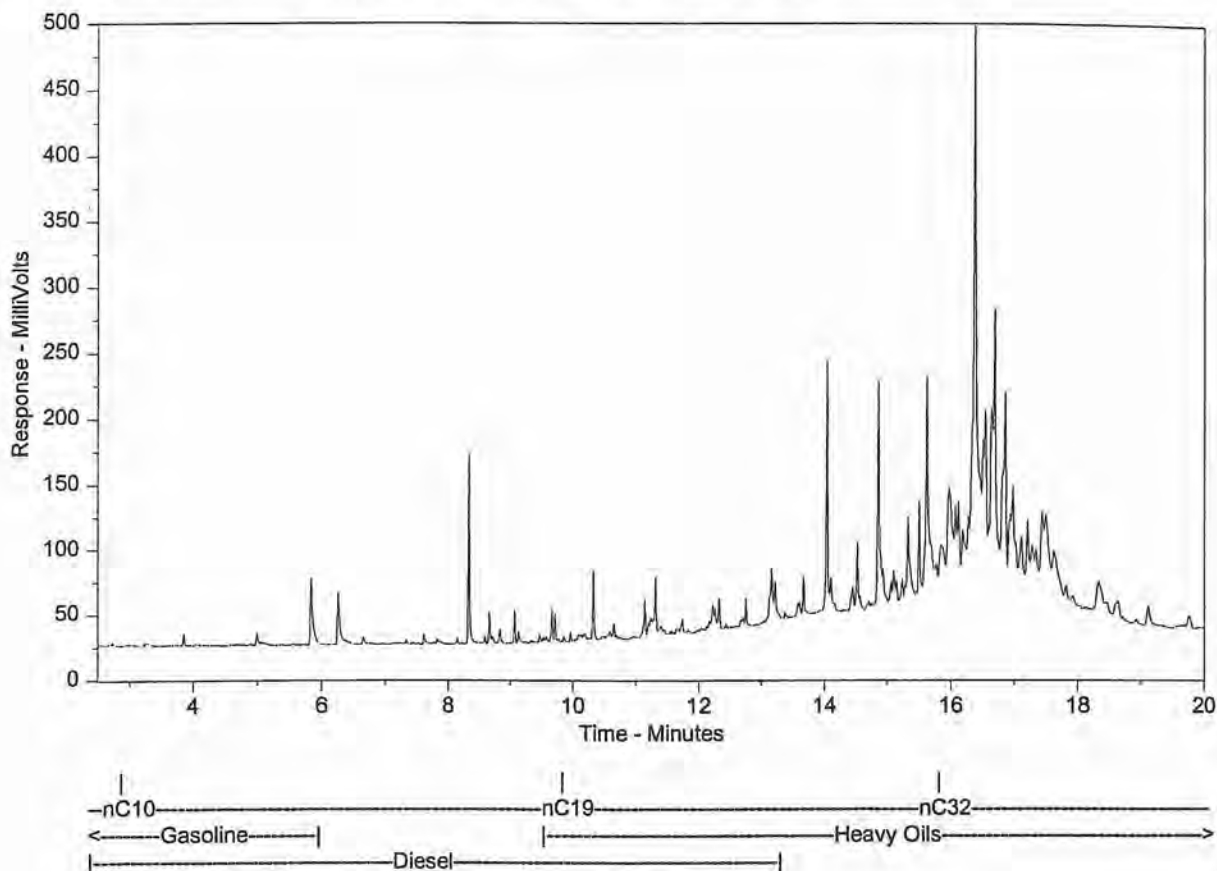
Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:****K9231-T--2****Soil #2****File Name:**

c:\chrom\gc12\data\08sep\gc12_08sepA.0012.RAW

Run Information:

Acquired on GC12, 9/8/99 9:28:20 PM



Sample Amount = 5.2 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

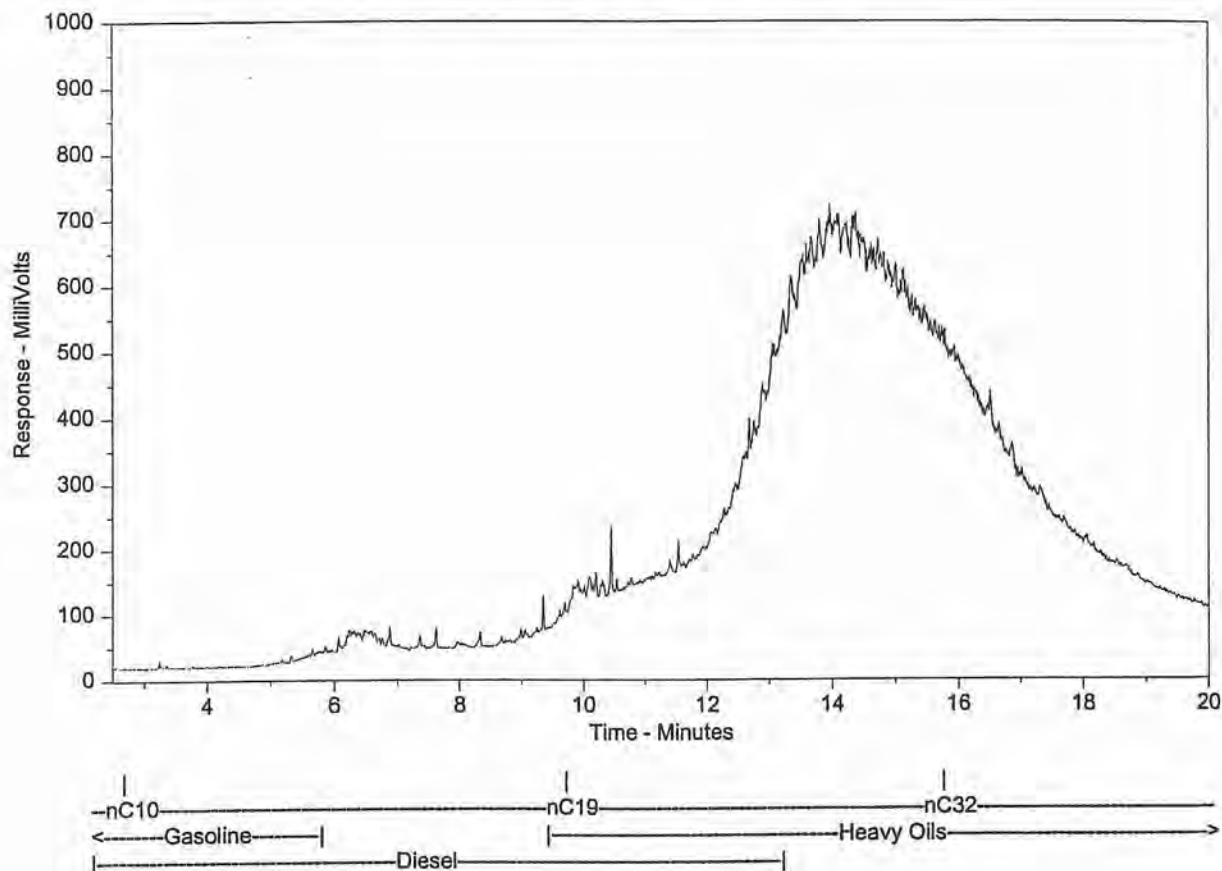
ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID: K9231-T--3 Soil #3

File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0012.RAW

Run Information: Acquired on GC12, 9/8/99 9:28:20 PM



Sample Amount = 9.7 (g or mL)

Dilution Factor = 8.0

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.

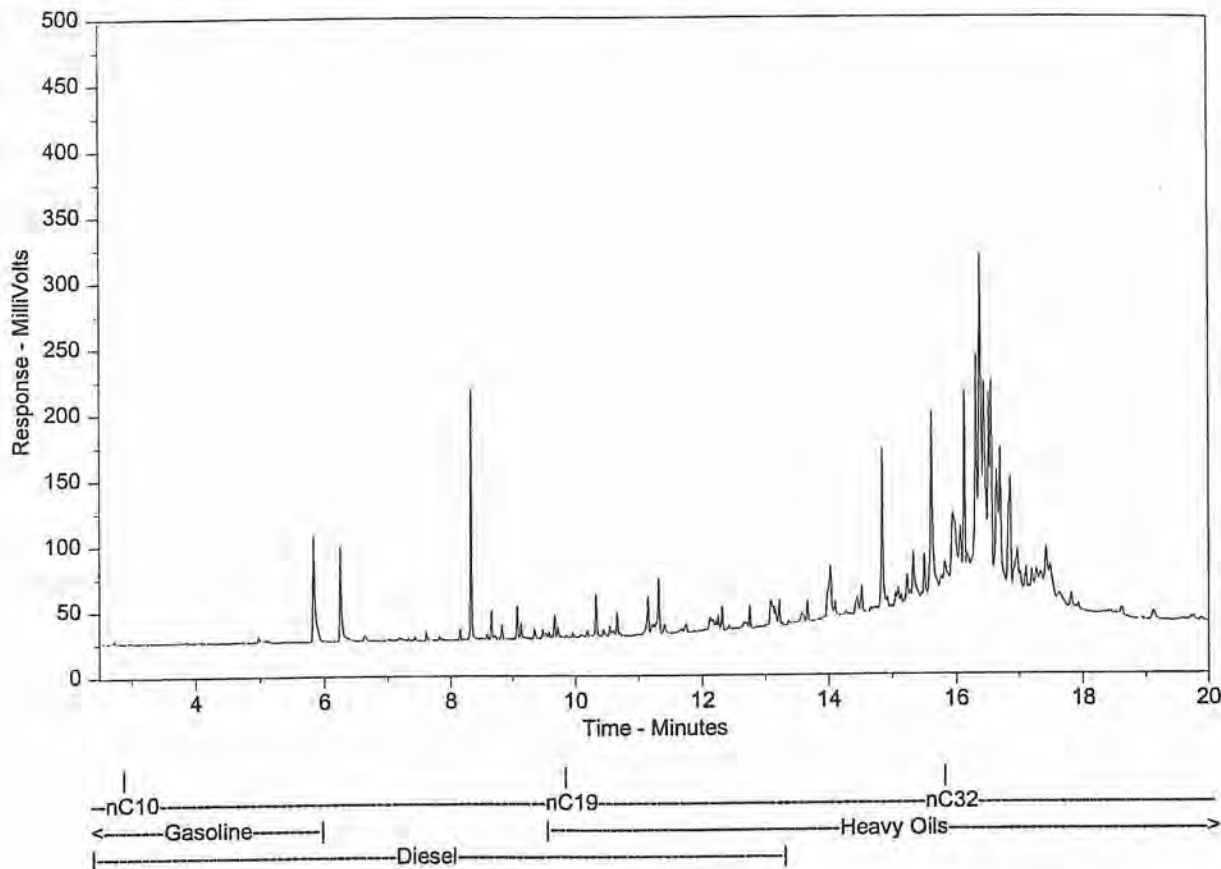
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:** K9231-T--4 Soil #4

File Name: c:\chrom\gc12\data\08sep\gc12_08sepA.0013.RAW

Run Information: Acquired on GC12, 9/8/99 10:00:31 PM



Sample Amount = 10.1 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID:

K9231-T--5

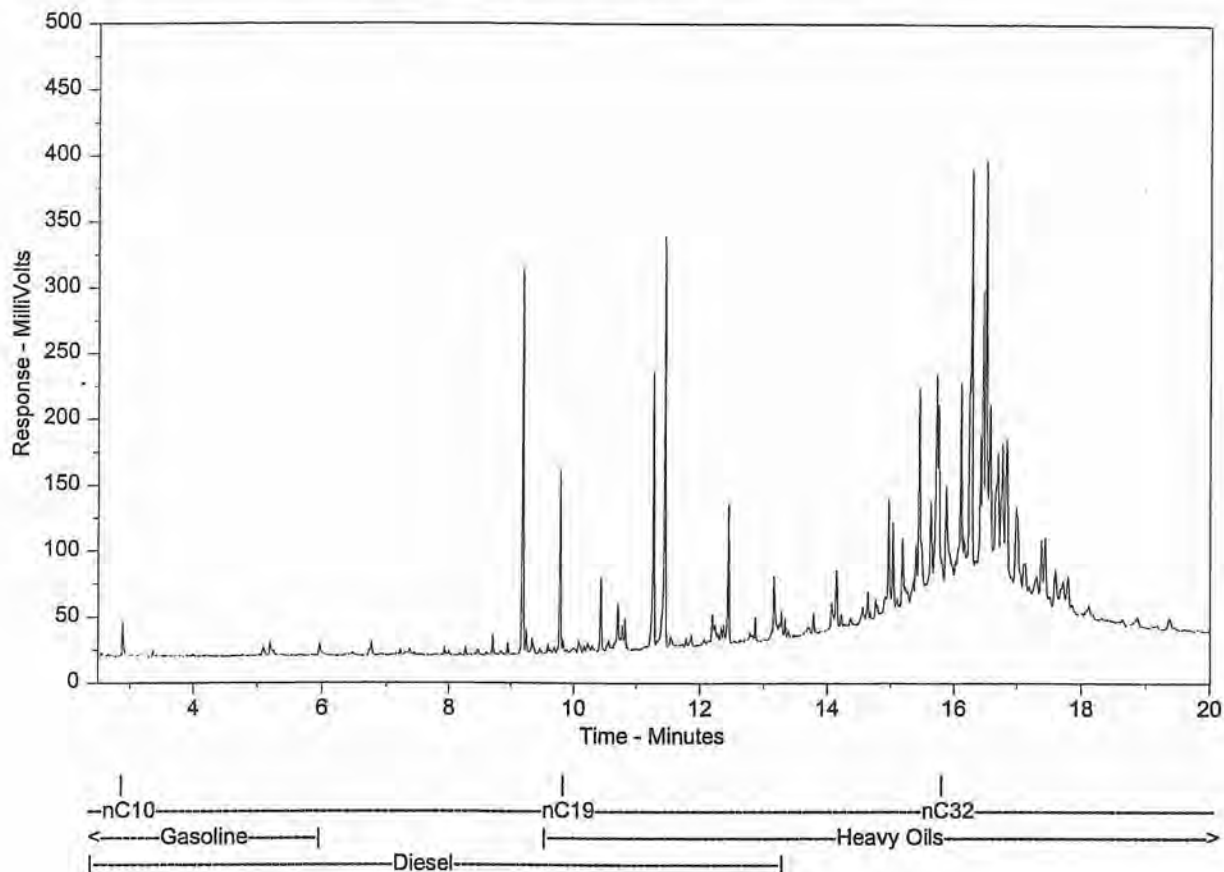
Soil #5

File Name:

C:\Chrom\gc12\data\08sep\gc12_08sepB.0013.RAW

Run Information:

Acquired on GC12, 9/8/99 10:00:31 PM



Sample Amount = 10.7 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID:

K9231-T--6

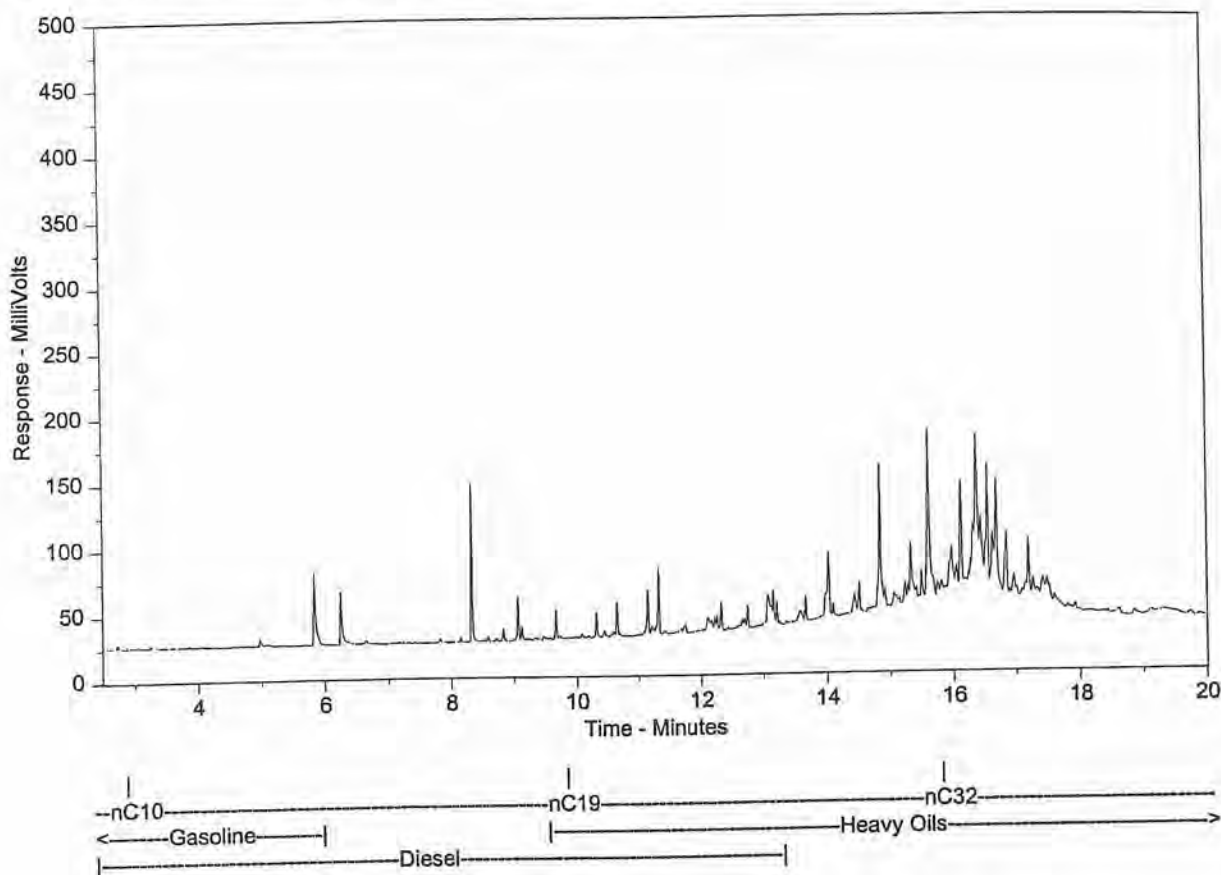
Soil #6

File Name:

c:\chrom\gc12\data\08sep\gc12_08sepA.0014.RAW

Run Information:

Acquired on GC12, 9/8/99 10:32:37 PM



Sample Amount = 10.6 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

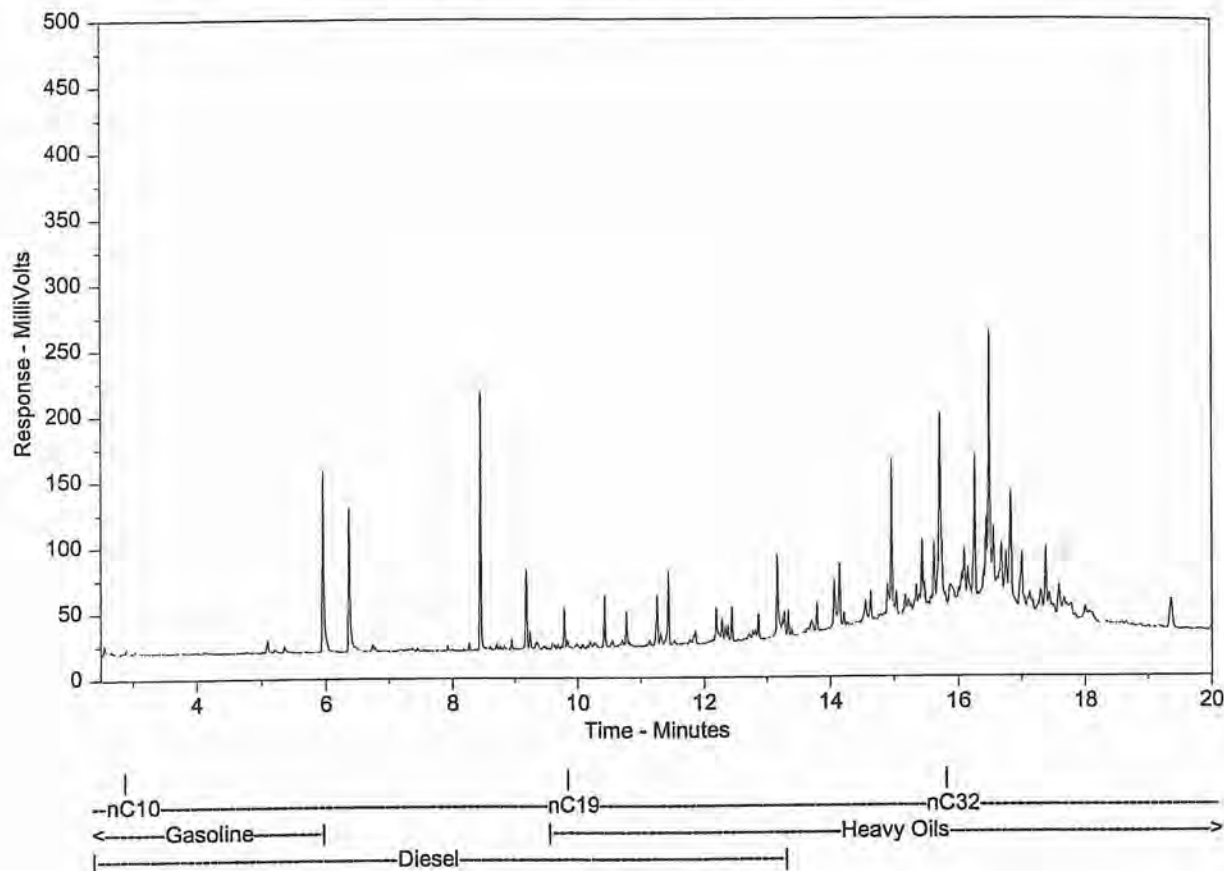
ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID: K9231-T--7 Soil #7

File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0014.RAW

Run Information: Acquired on GC12, 9/8/99 10:32:37 PM



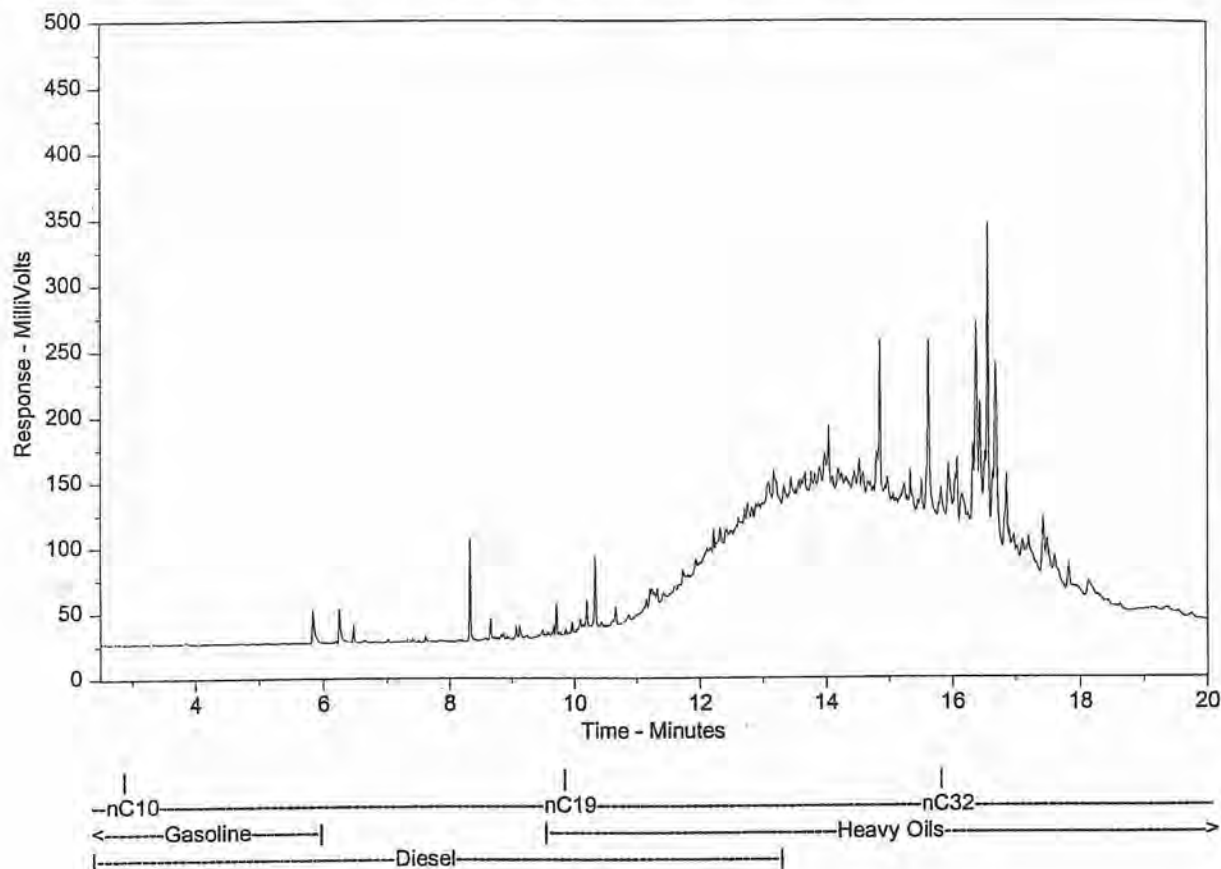
Sample Amount = 11.5 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:** K9231-T--8 Soil #8**File Name:** c:\chrom\gc12\data\08sep\gc12_08sepA.0016.RAW**Run Information:** Acquired on GC12, 9/8/99 11:36:59 PM

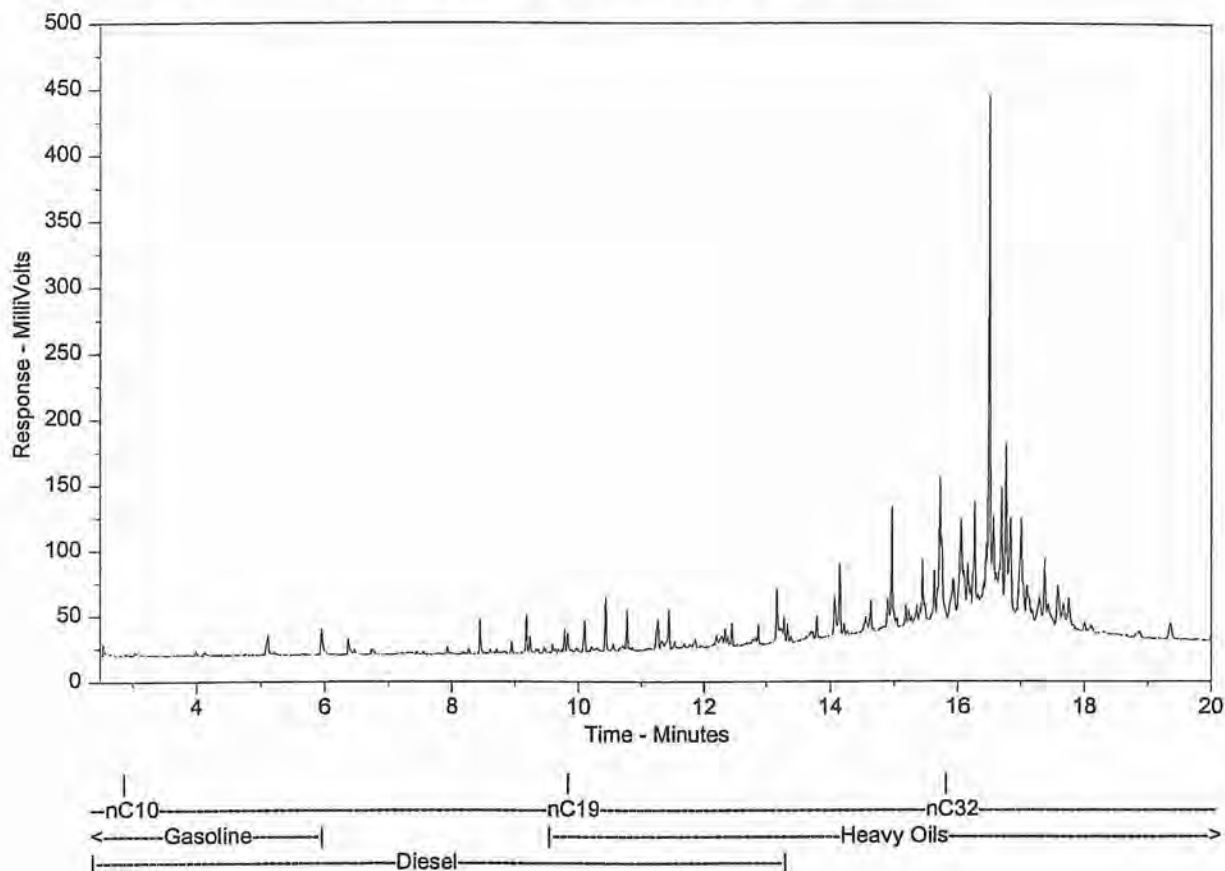
Sample Amount = 10.2 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:** K9231-T--9 Soil #9**File Name:** C:\Chrom\gc12\data\08sep\gc12_08sepB.0016.RAW**Run Information:** Acquired on GC12, 9/8/99 11:36:59 PM

Sample Amount = 8.9 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID: K9231-T--10

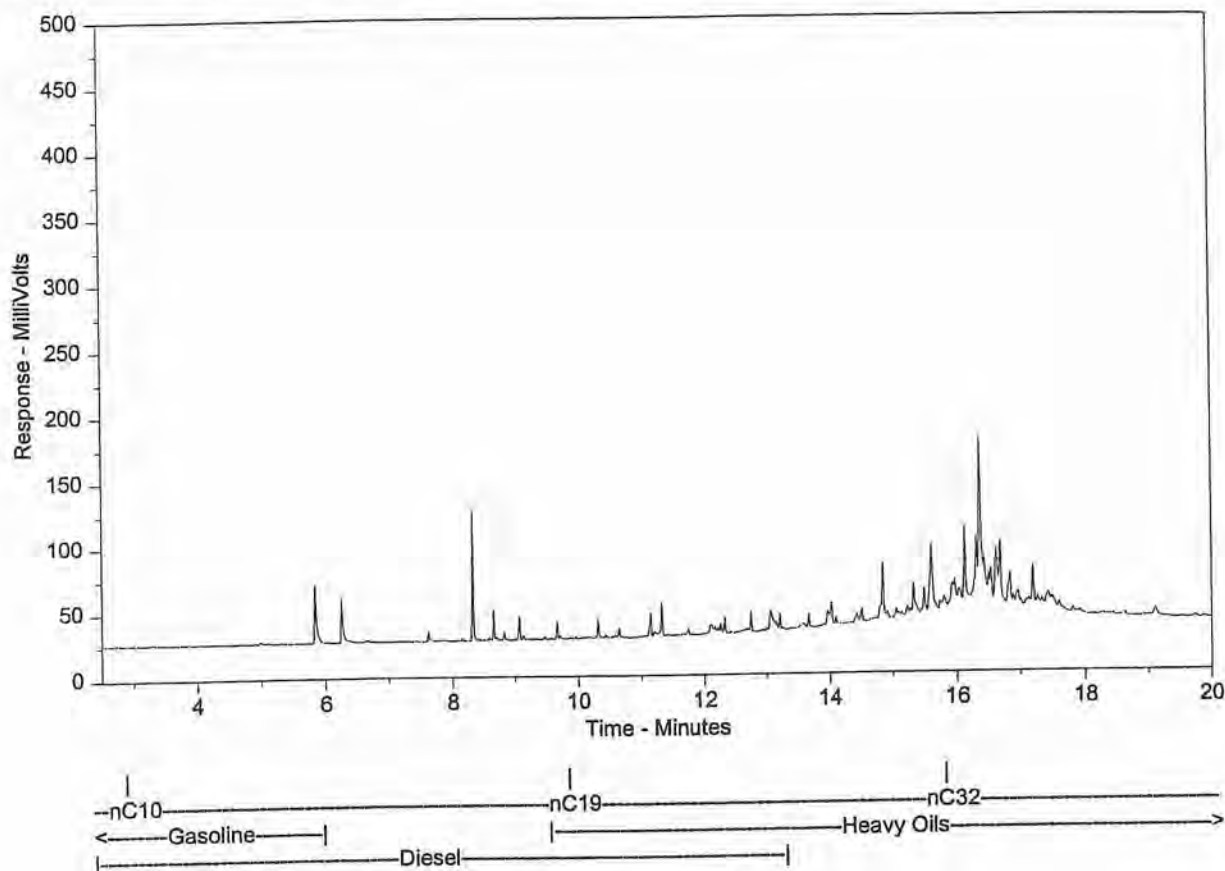
Soil #10

File Name:

c:\chrom\gc12\data\08sep\gc12_08sepA.0017.RAW

Run Information:

Acquired on GC12, 9/9/99 12:09:05 AM



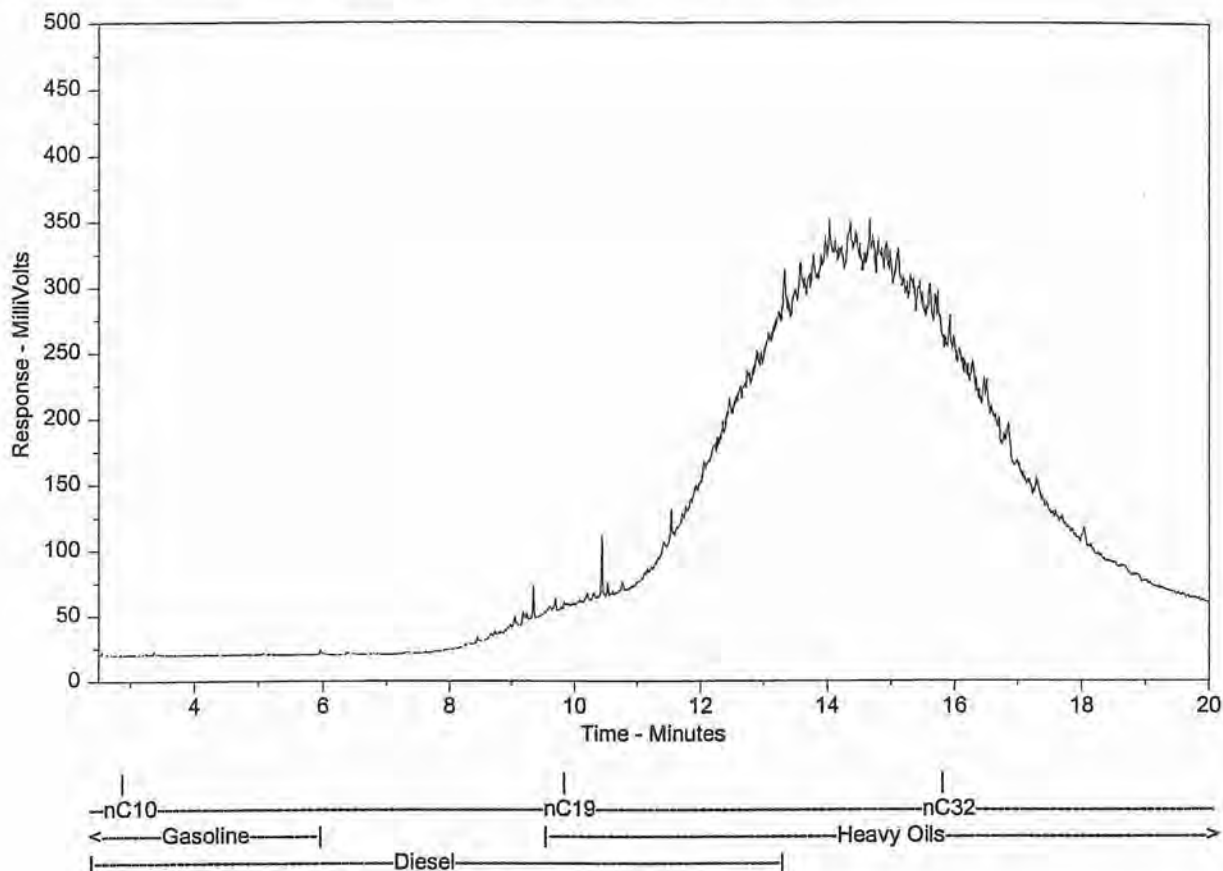
Sample Amount = 13.7 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report**Client Sample ID:****ASL Sample ID:** K9231-T--11 Soil #11**File Name:** C:\Chrom\gc12\data\08sep\gc12_08sepB.0018.RAW**Run Information:** Acquired on GC12, 9/9/99 12:41:08 AM

Sample Amount = 9.0 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID:

ASL Sample ID:

K9231-T--12

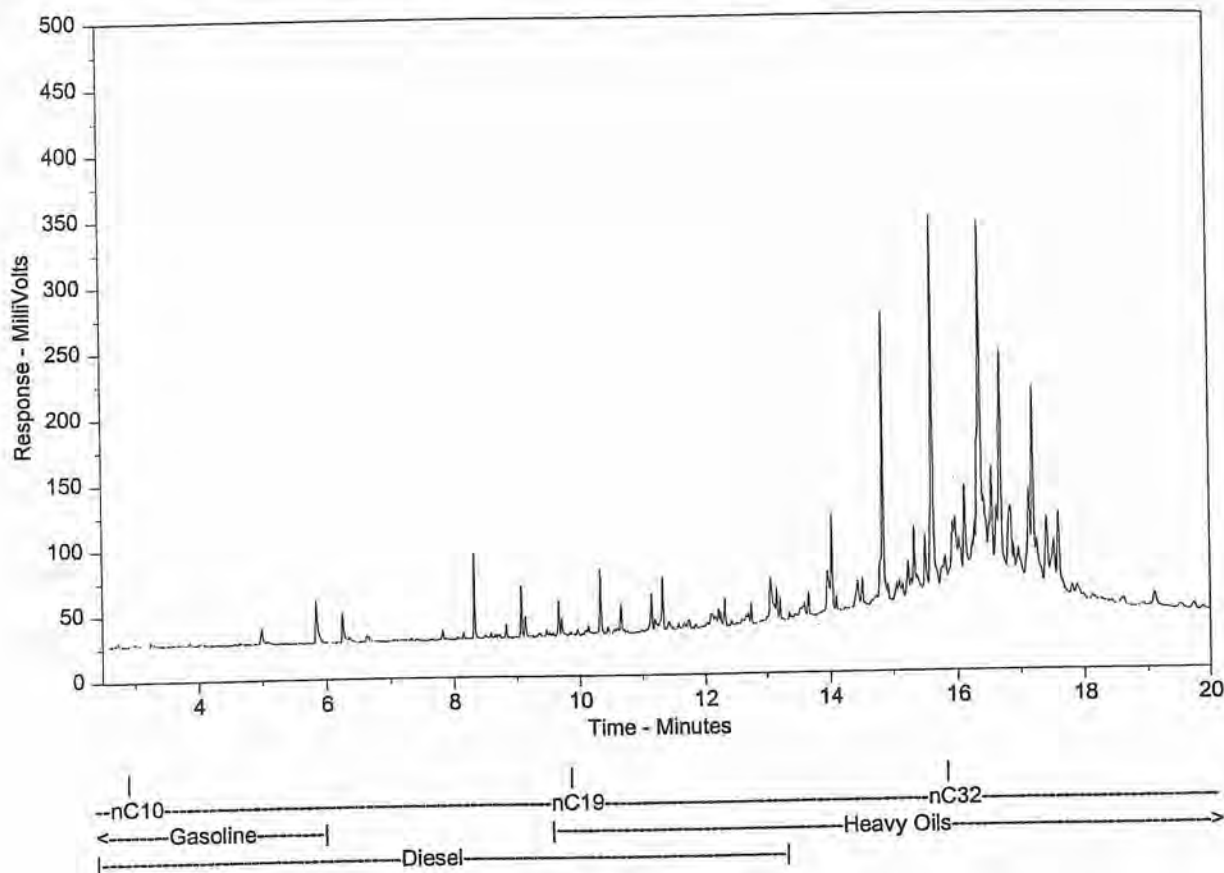
Soil #12

File Name:

c:\chrom\gc12\data\08sep\gc12_08sepA.0019.RAW

Run Information:

Acquired on GC12, 9/9/99 1:13:04 AM



Sample Amount = 11.1 (g or mL)

Dilution Factor = 8.0

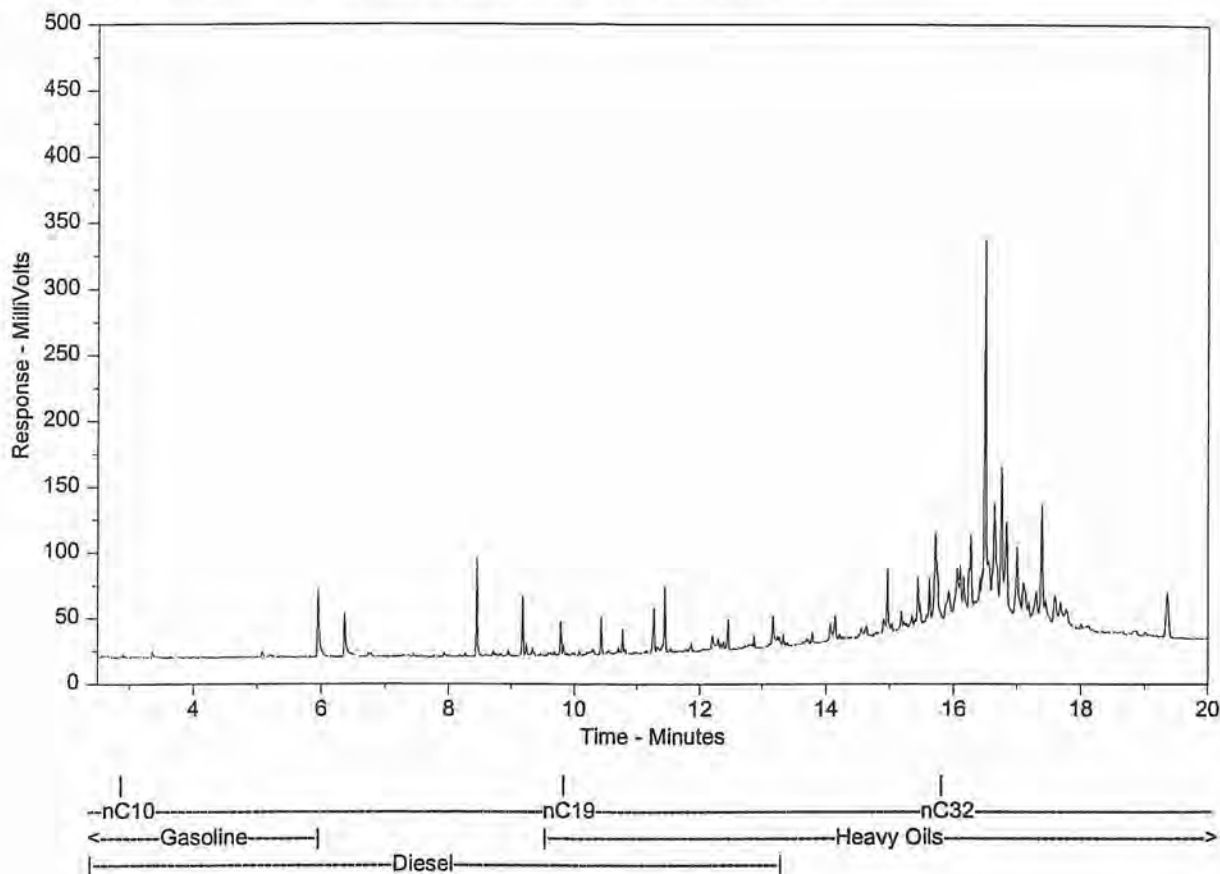
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #13
ASL Sample ID: K9231-T--13
File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0019.RAW
Run Information: Acquired on GC12, 9/9/99 1:13:05 AM



Sample Amount = 10.7 (g or mL)

Dilution Factor = 8.0

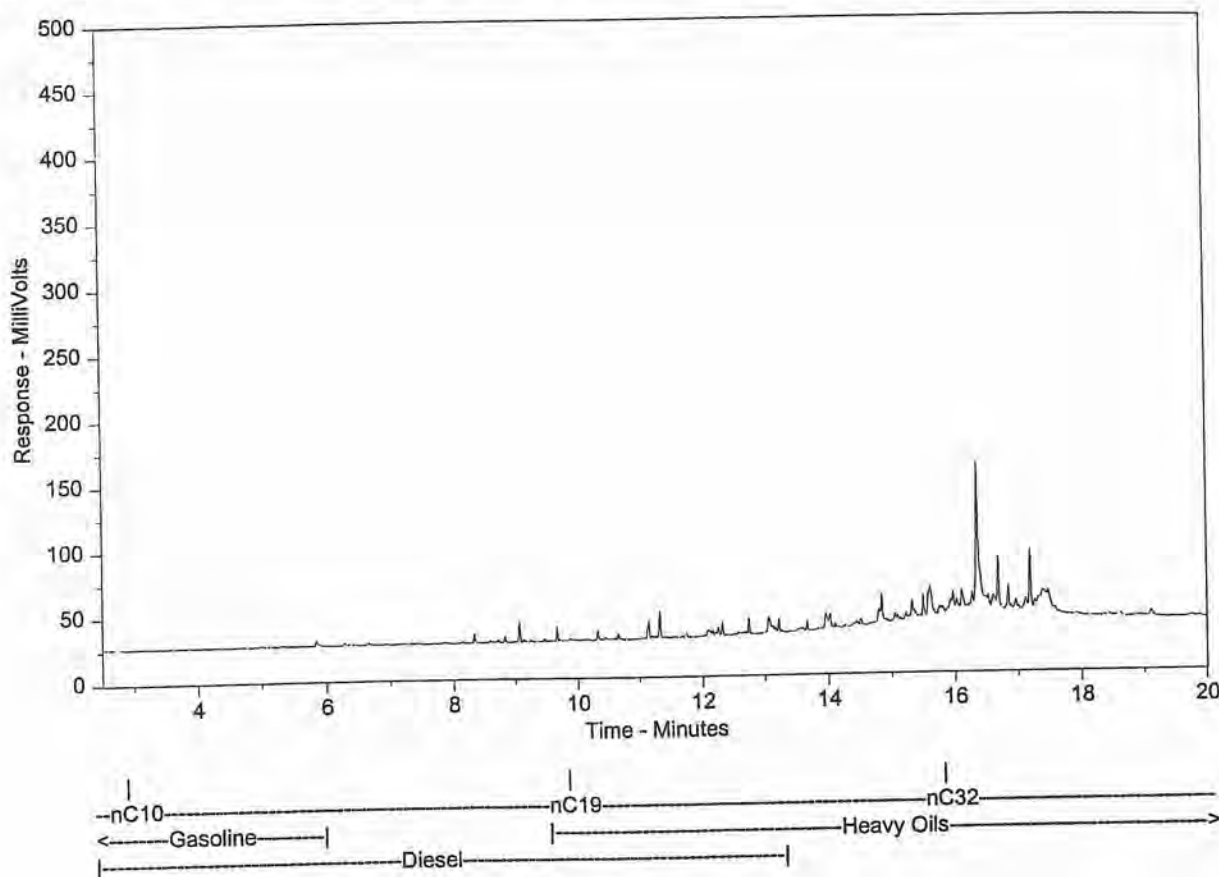
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #14
ASL Sample ID: K9231-T--14
File Name: c:\chrom\gc12\data\08sep\gc12_08sepA.0020.RAW
Run Information: Acquired on GC12, 9/9/99 1:45:08 AM



Sample Amount = 10.9 (g or mL)

Dilution Factor = 8.0

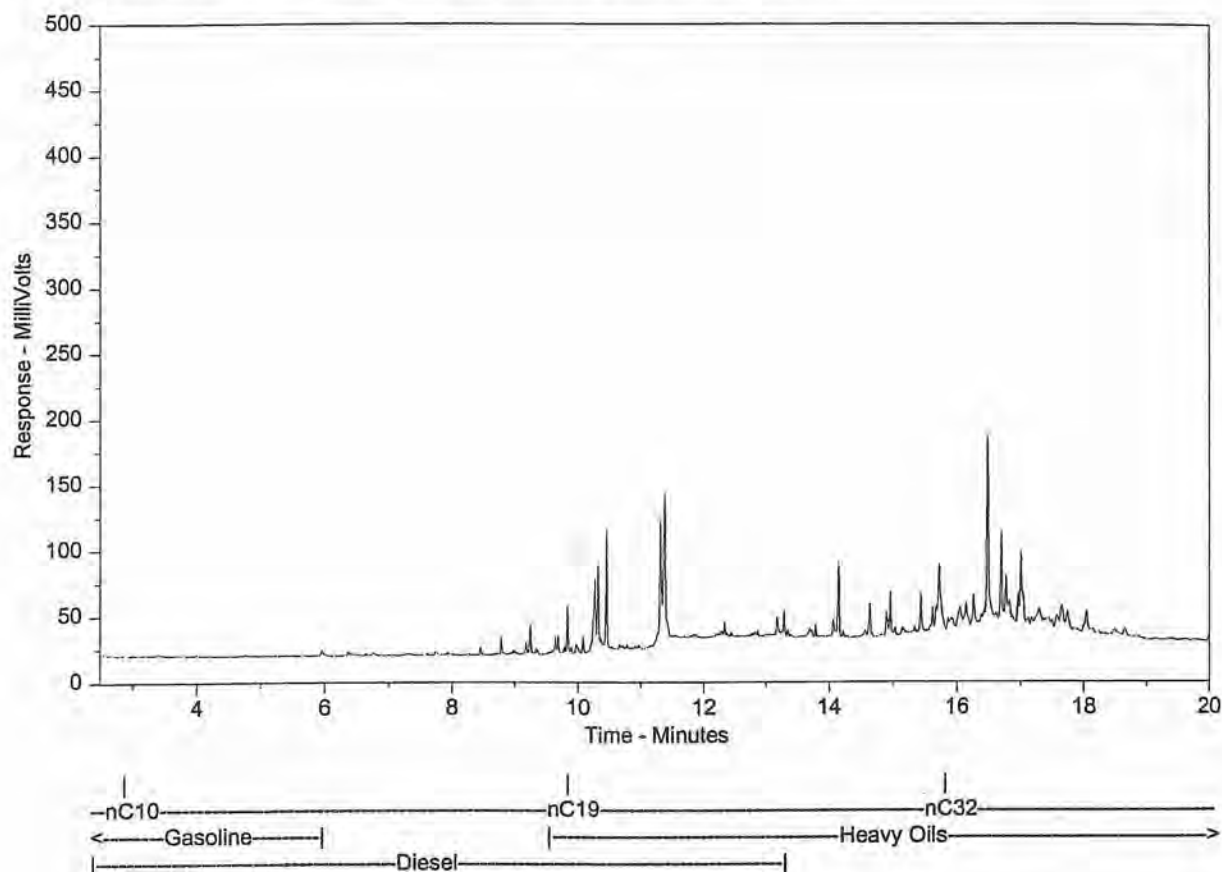
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #15
ASL Sample ID: K9231-T--15
File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0020.RAW
Run Information: Acquired on GC12, 9/9/99 1:45:08 AM



Sample Amount = 3.0 (g or mL)

Dilution Factor = 8.0

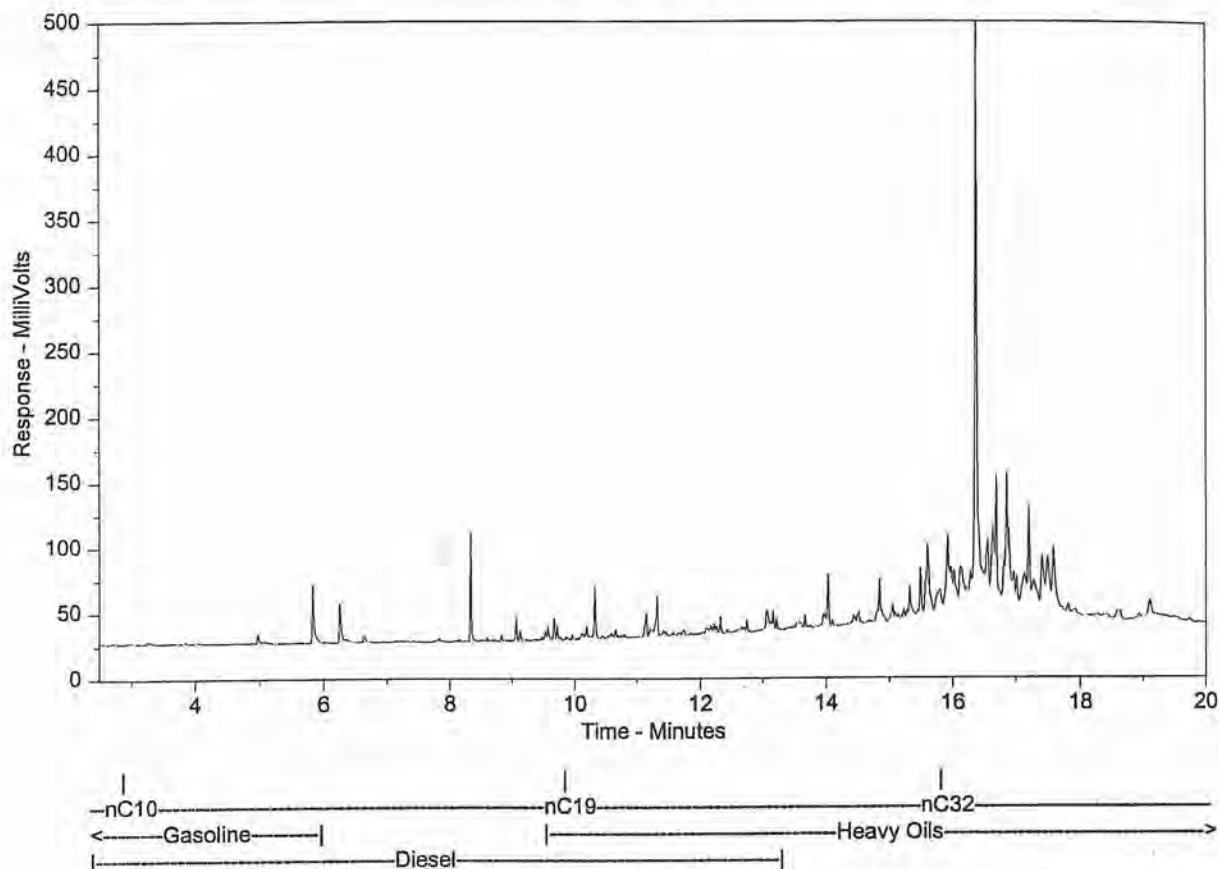
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #16
ASL Sample ID: K9231-T--16
File Name: c:\chrom\gc12\data\08sep\gc12_08sepA.0021.RAW
Run Information: Acquired on GC12, 9/9/99 2:17:12 AM



Sample Amount = 6.9 (g or mL)

Dilution Factor = 8.0

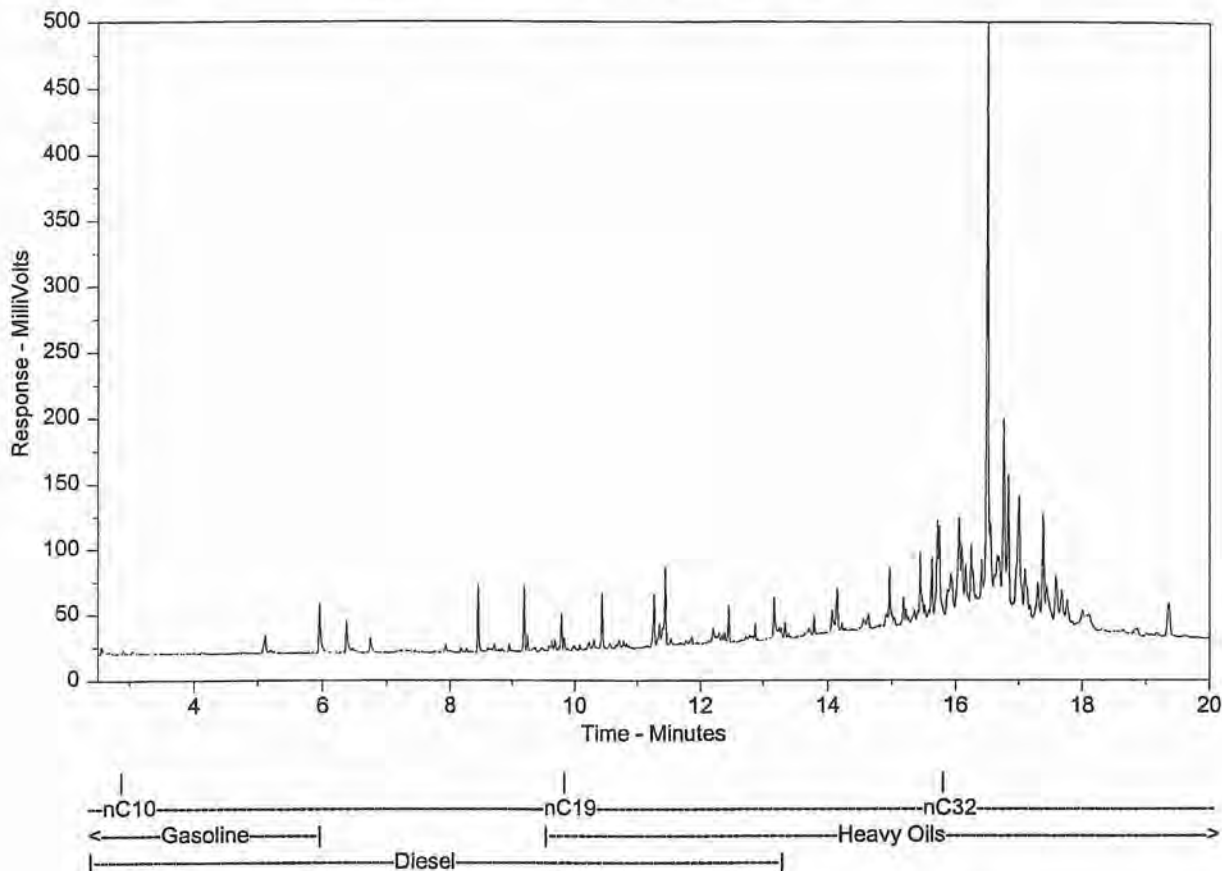
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #17
ASL Sample ID: K9231-T--17
File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0021.RAW
Run Information: Acquired on GC12, 9/9/99 2:17:12 AM



Sample Amount = 10.2 (g or mL)

Dilution Factor = 8.0

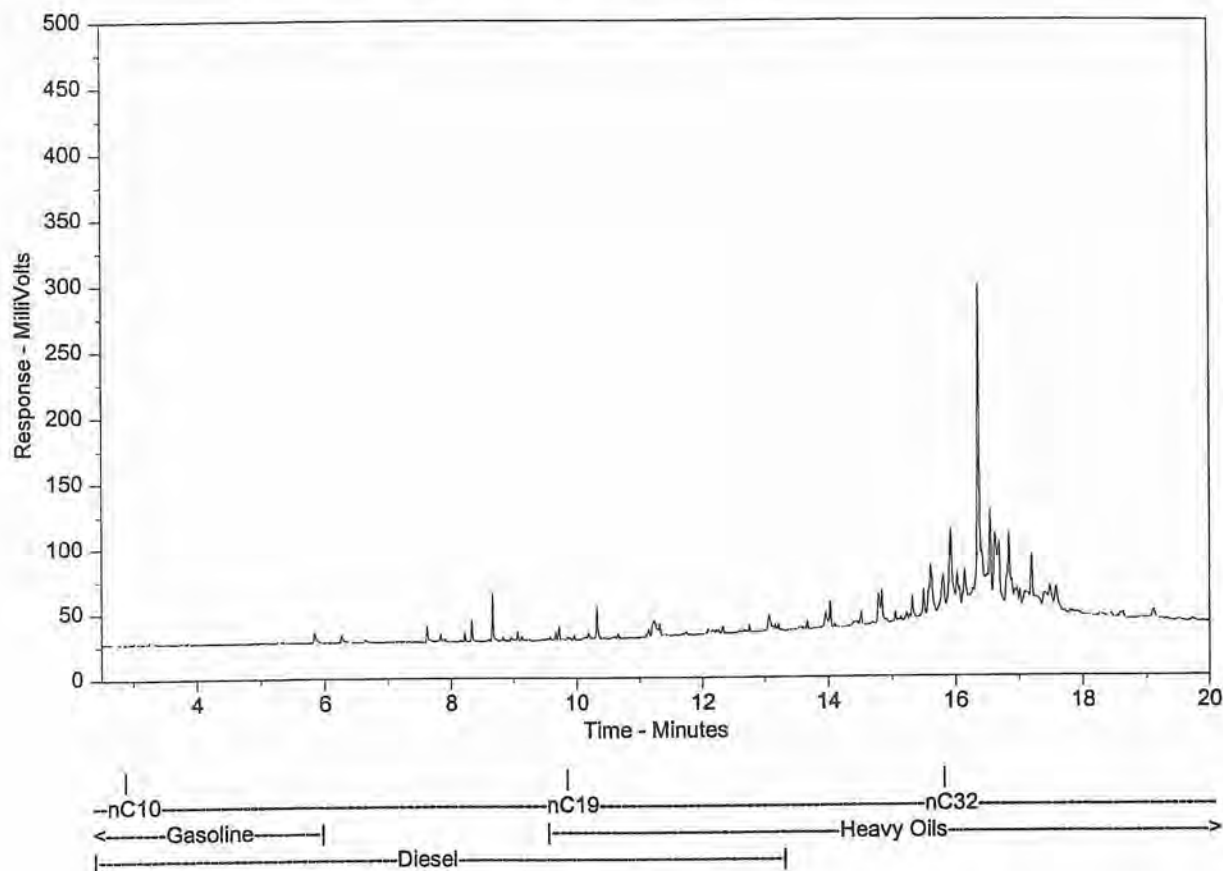
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #18
ASL Sample ID: K9231-T--18
File Name: c:\chrom\gc12\data\08sep\gc12_08sepA.0022.RAW
Run Information: Acquired on GC12, 9/9/99 2:49:14 AM



Sample Amount = 8.6 (g or mL)

Dilution Factor = 8.0

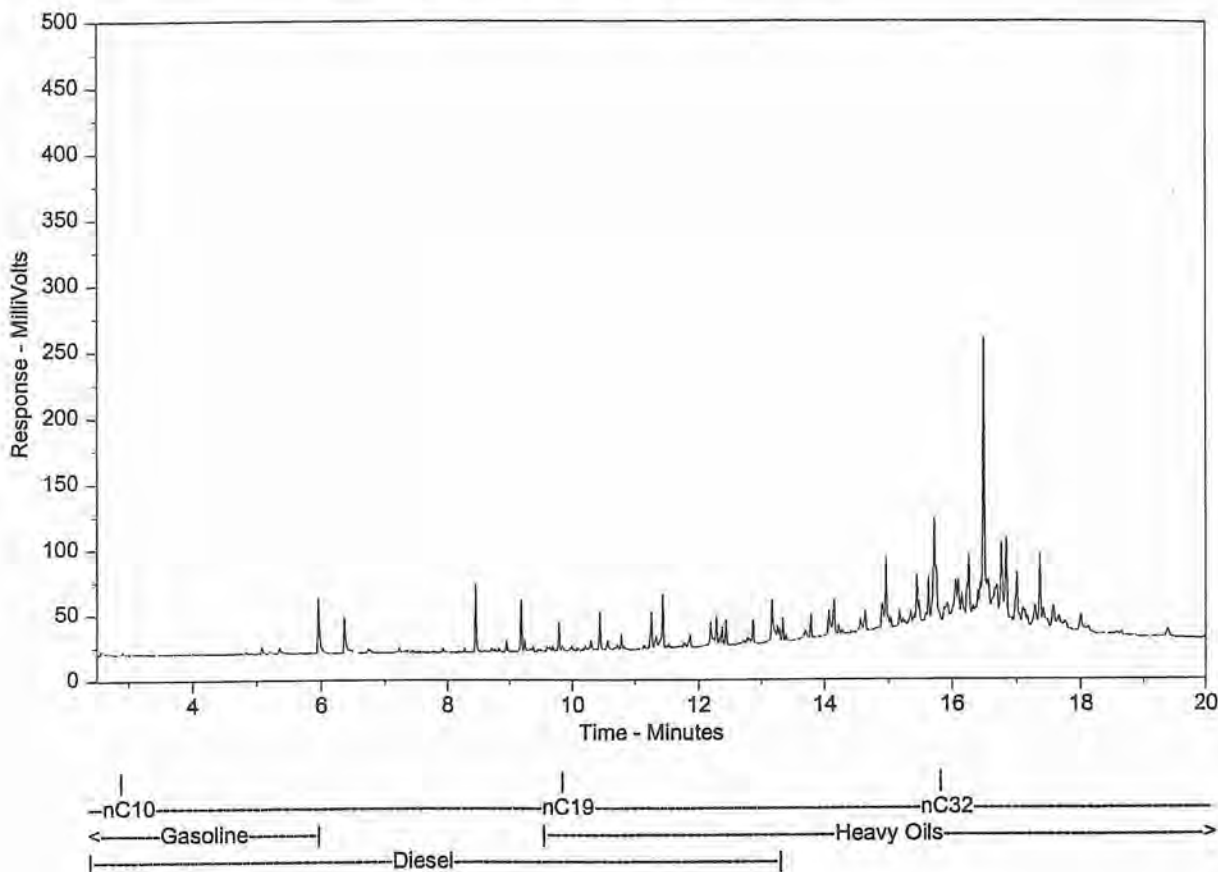
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #19
ASL Sample ID: K9231-T--19
File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0022.RAW
Run Information: Acquired on GC12, 9/9/99 2:49:14 AM



Sample Amount = 9.6 (g or mL)

Dilution Factor = 8.0

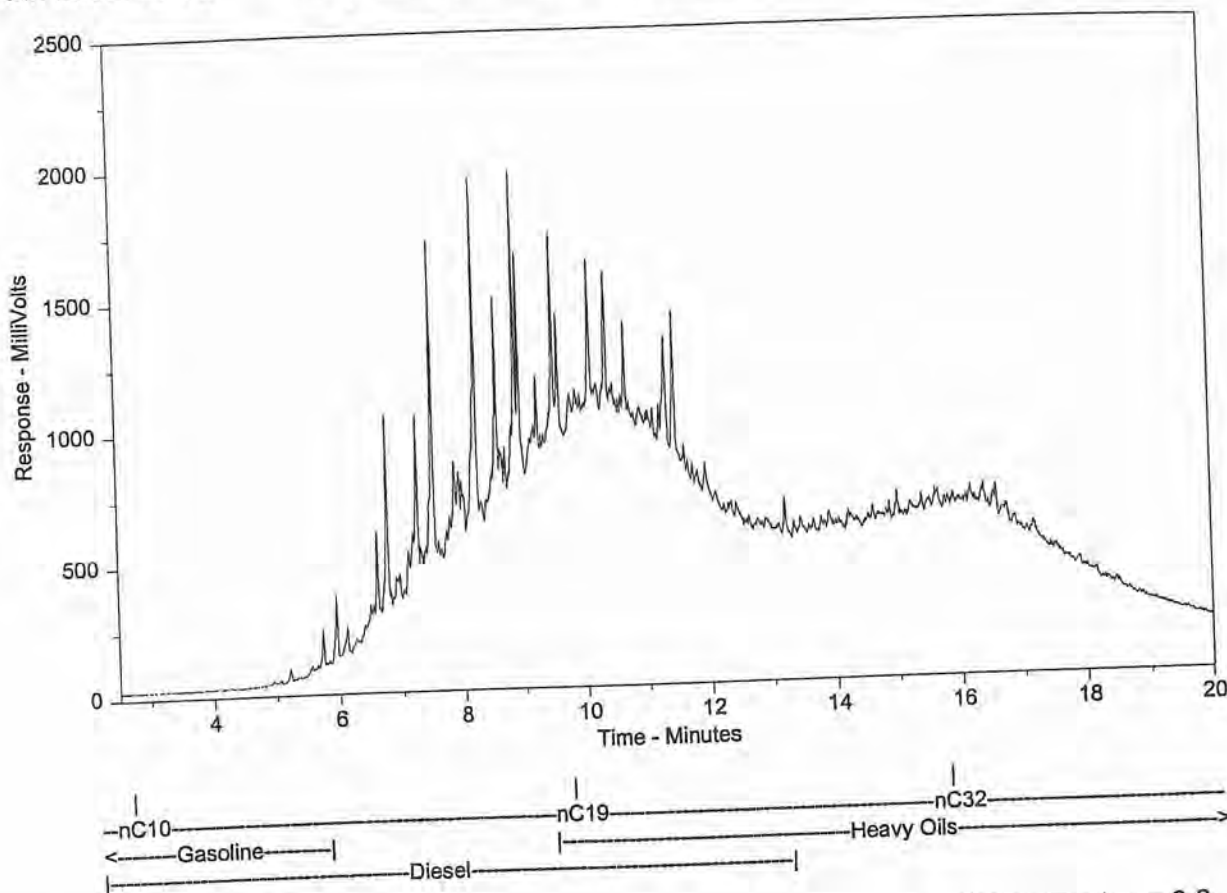
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #20
ASL Sample ID: K9231-T--20
File Name: c:\chrom\gc12\data\08sep\gc12_08sepA.0023.RAW
Run Information: Acquired on GC12, 9/9/99 3:21:11 AM



Sample Amount = 9.9 (g or mL)

Dilution Factor = 8.0

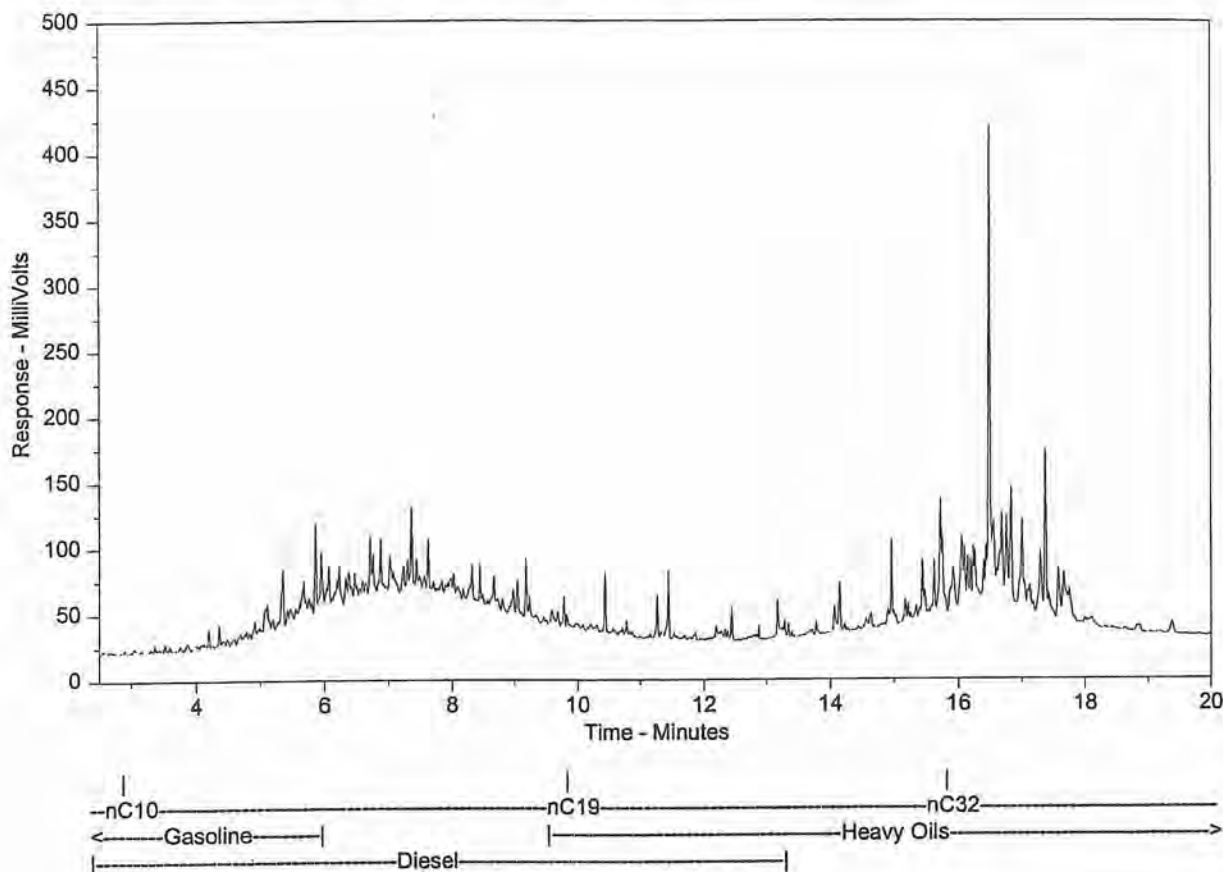
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and of three n-alkane hydrocarbon marker compounds.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

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.

ASL Hydrocarbon Distribution Report

Client Sample ID: Soil #21
ASL Sample ID: K9231-T--21
File Name: C:\Chrom\gc12\data\08sep\gc12_08sepB.0023.RAW
Run Information: Acquired on GC12, 9/9/99 3:21:11 AM



Sample Amount = 9.0 (g or mL)

Dilution Factor = 8.0

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.

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.

Note: This report was produced using a temperature profile that was implemented on June 21st, 1999. Under these new conditions, hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report to other reports produced prior to June 21st, 1999. A current library of reference products is available upon request.