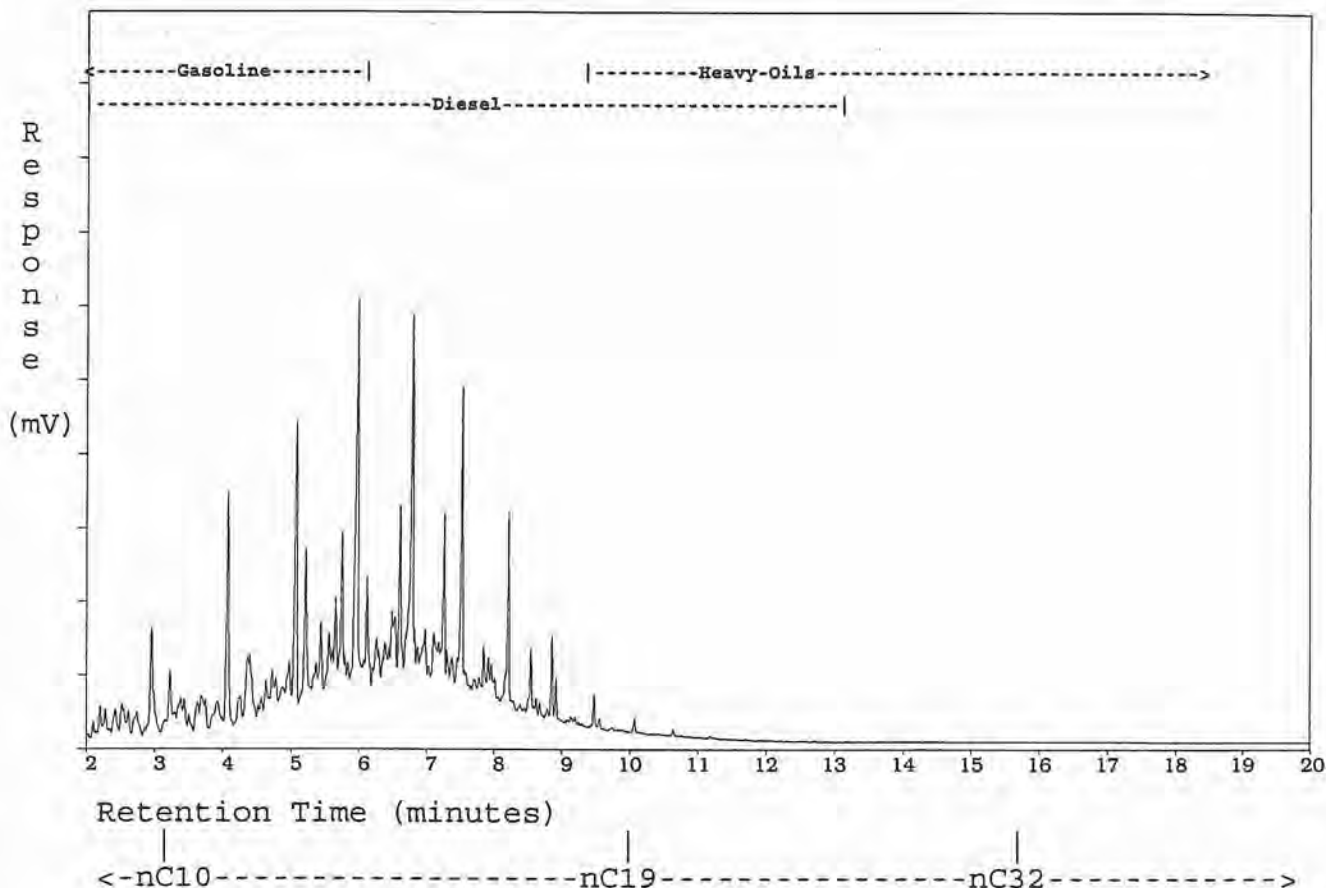


HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Drum 60

File Name: C:\TEH2\JL21\EH3JL21.12R ASL Sample ID: K7755-T--7 Sample acquired: JUL 21, 1999 16:51:55
Chromatogram Scale: 200.0 millivolts



Sample Amt. (g or mL): 15.5 Dilution: 8.0

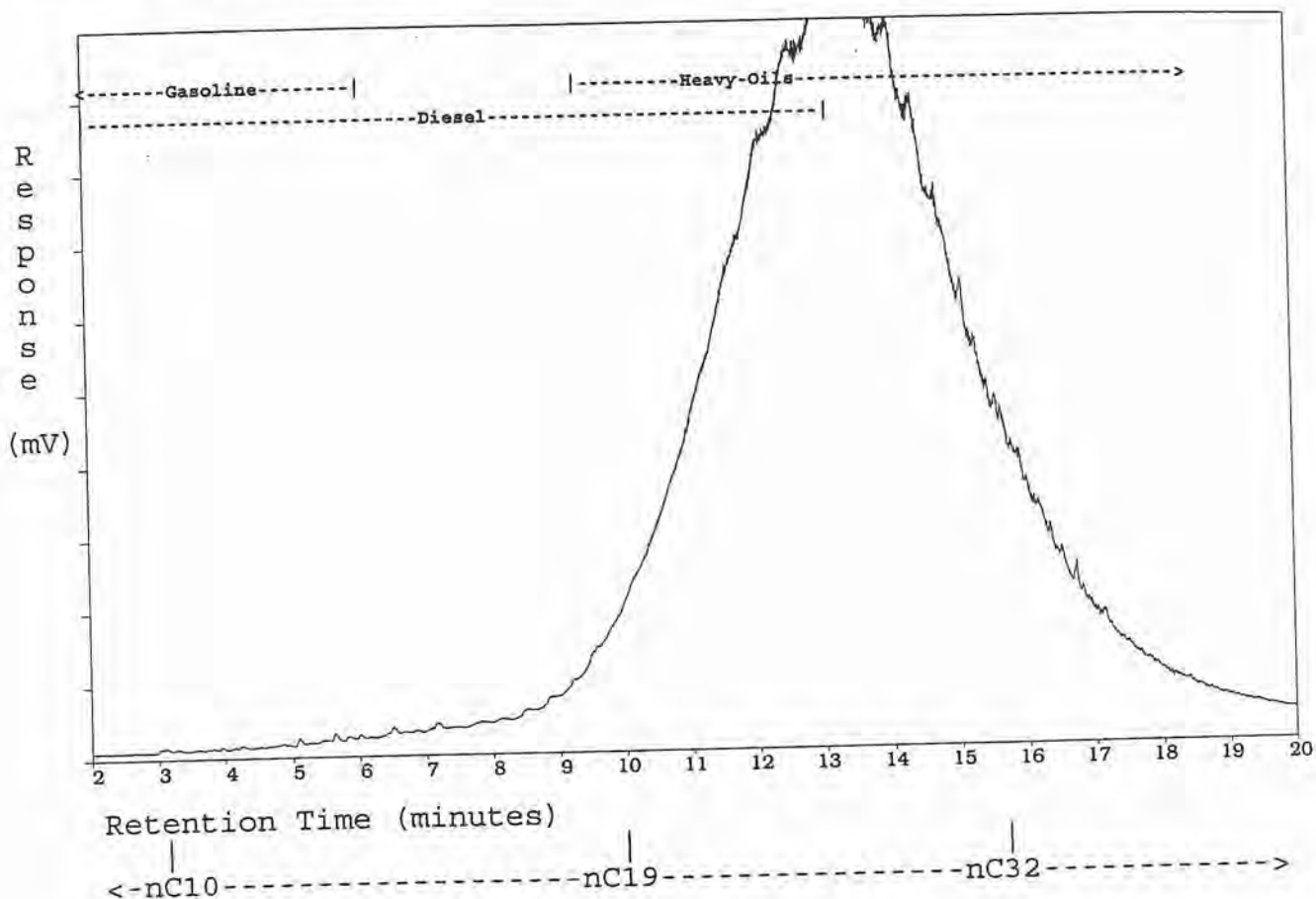
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Drum 63

File Name: C:\TEH2\JL21\EH3JL21.13R ASL Sample ID: K7755-T--8 Sample acquired: JUL 21, 1999 17:27:08
Chromatogram Scale: 200.0 millivolts



Sample Amt. (g or mL): 11.9 Dilution: 8.0

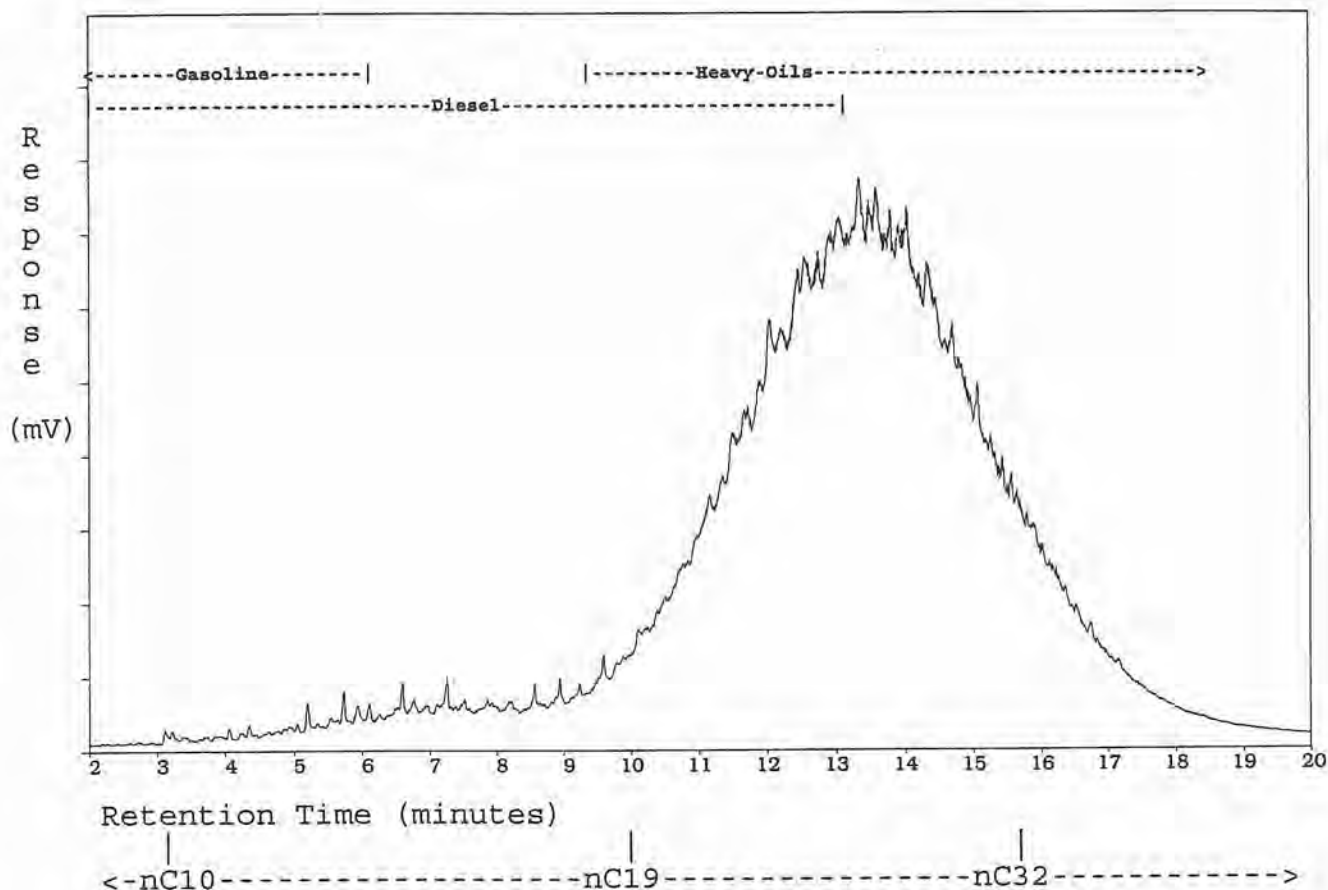
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Drum 70

File Name: C:\TEH2\JL21\EH3JL21.14R ASL Sample ID: K7755-T--9 Sample acquired: JUL 21, 1999 17:27:08
Chromatogram Scale: 200.0 millivolts



Sample Amt. (g or mL): 13.4 Dilution: 8.0

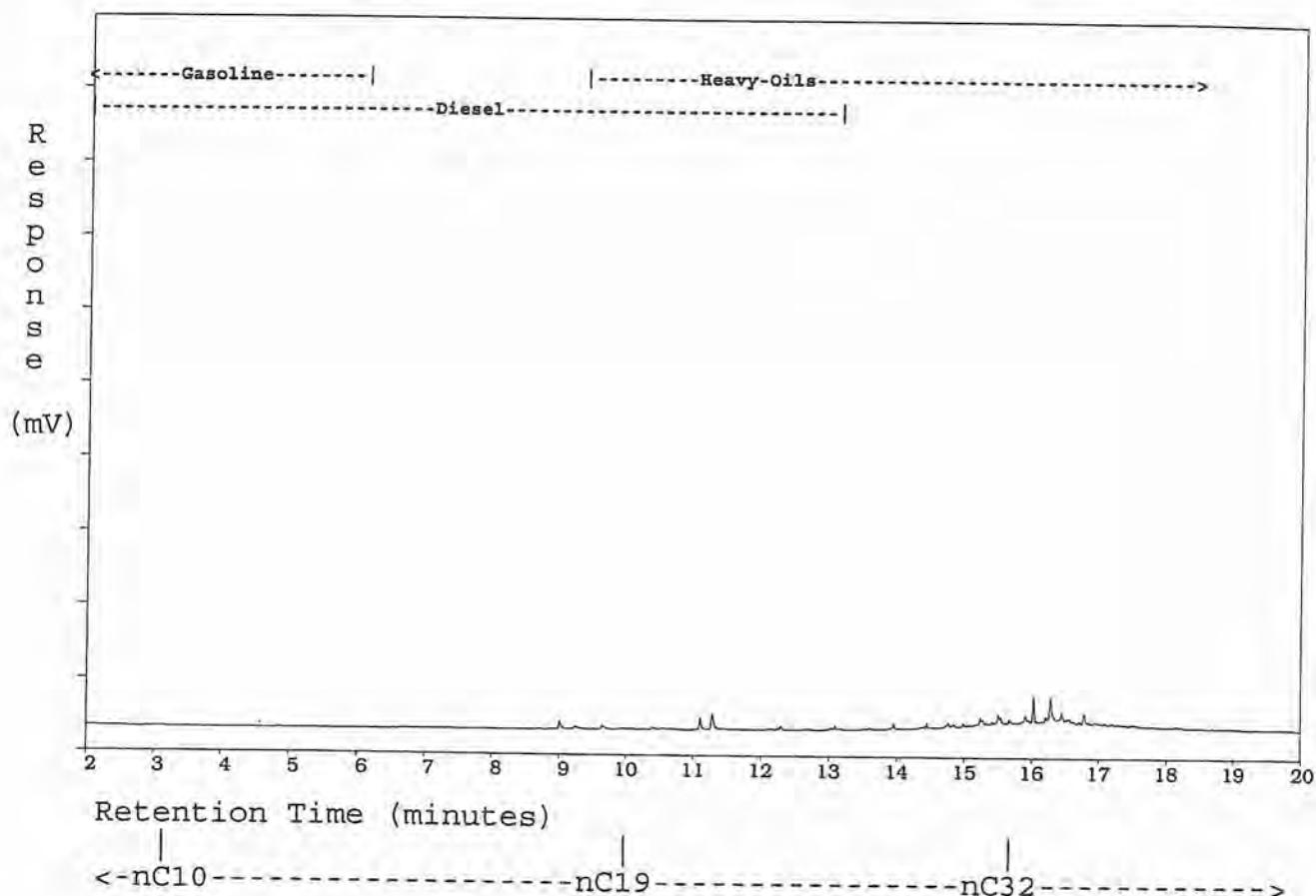
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 6 East

File Name: C:\TEH2\JL21\EH3JL21.15R ASL Sample ID: K7755-T--10 Sample acquired: JUL 21, 1999 18:02:55
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 15.5 Dilution: 8.0

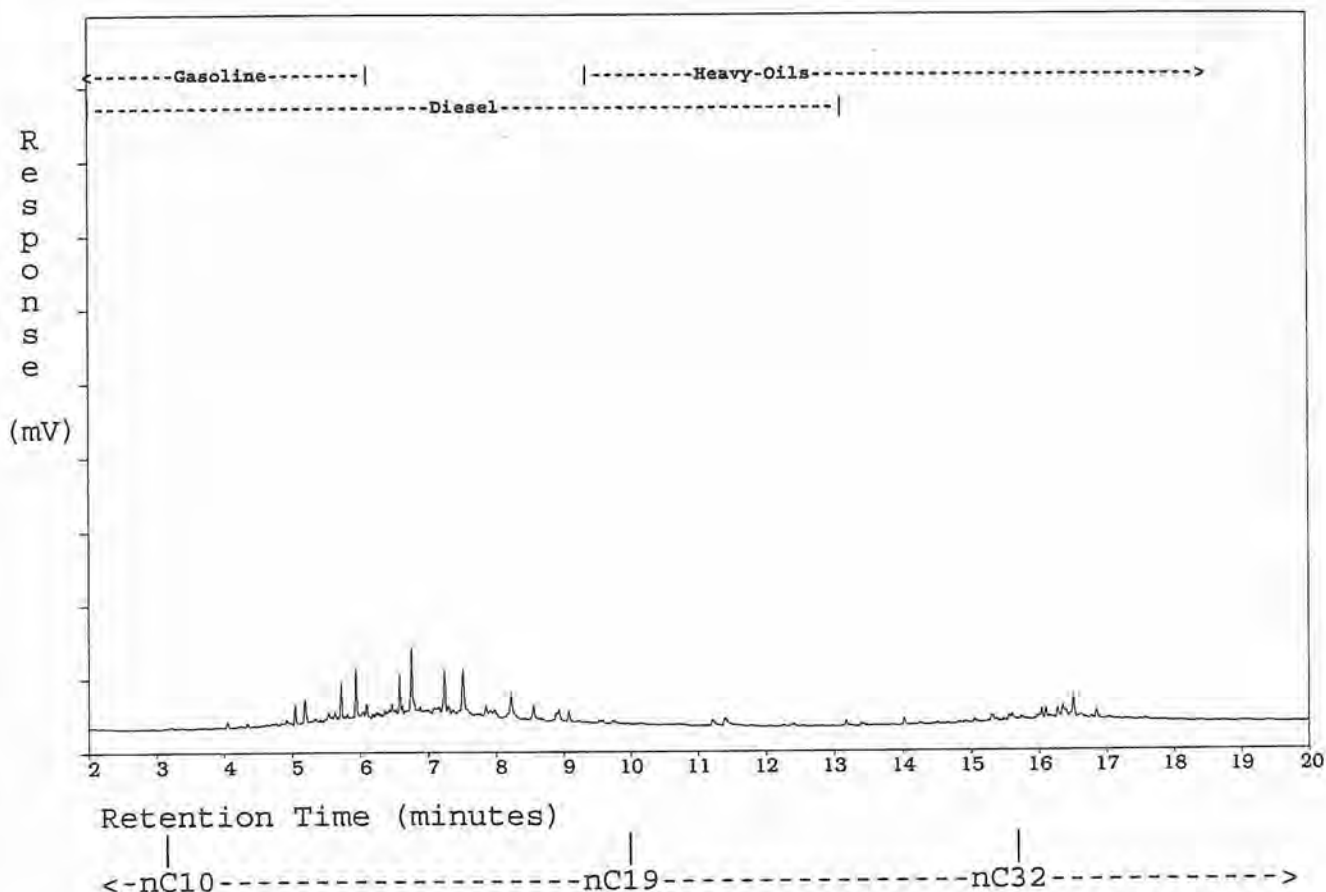
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 6 Centre

File Name: C:\TEH2\JL21\EH3JL21.16R ASL Sample ID: K7755-T--11 Sample acquired: JUL 21, 1999 18:02:55
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 11.8 Dilution: 8.0

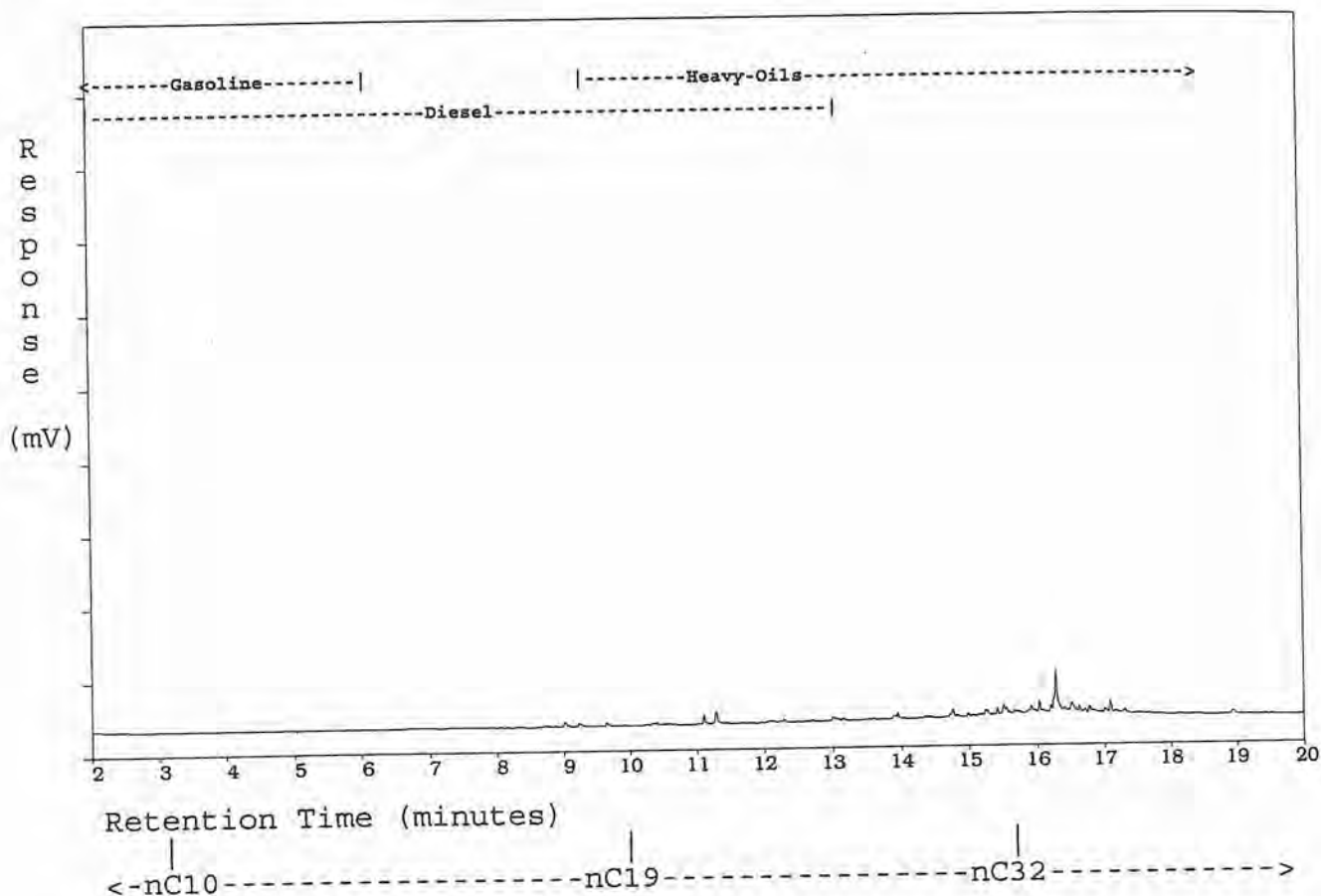
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 7 Middle South

File Name: C:\TEH2\JL21\EH3JL21.17R ASL Sample ID: K7755-T--12 Sample acquired: JUL 21, 1999 18:37:44
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 10.7 Dilution: 8.0

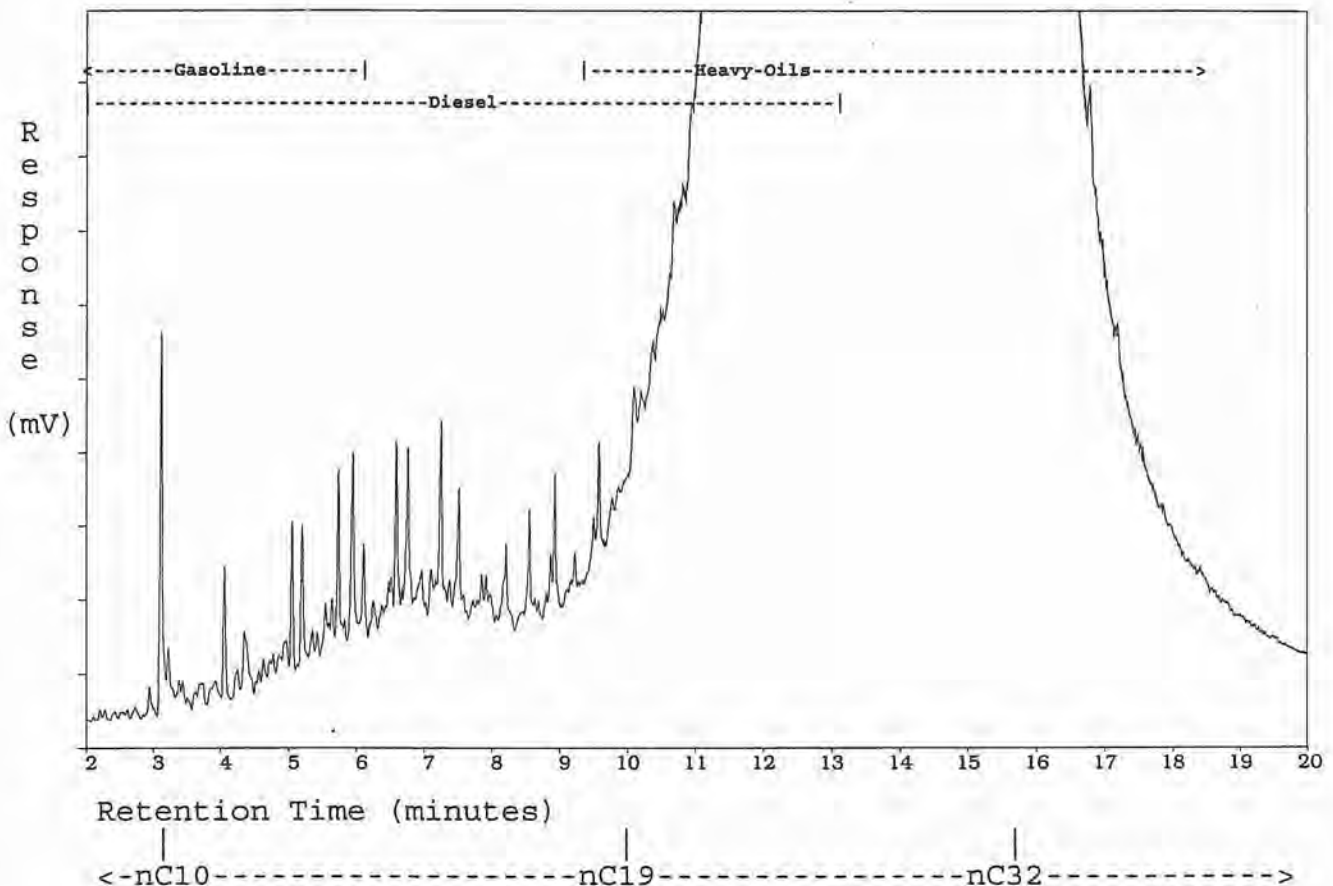
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 7 Middle

File Name: C:\TEH2\JL21\EH3JL21.18R ASL Sample ID: K7755-T--13 Sample acquired: JUL 21, 1999 18:37:44
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 11.8 Dilution: 8.0

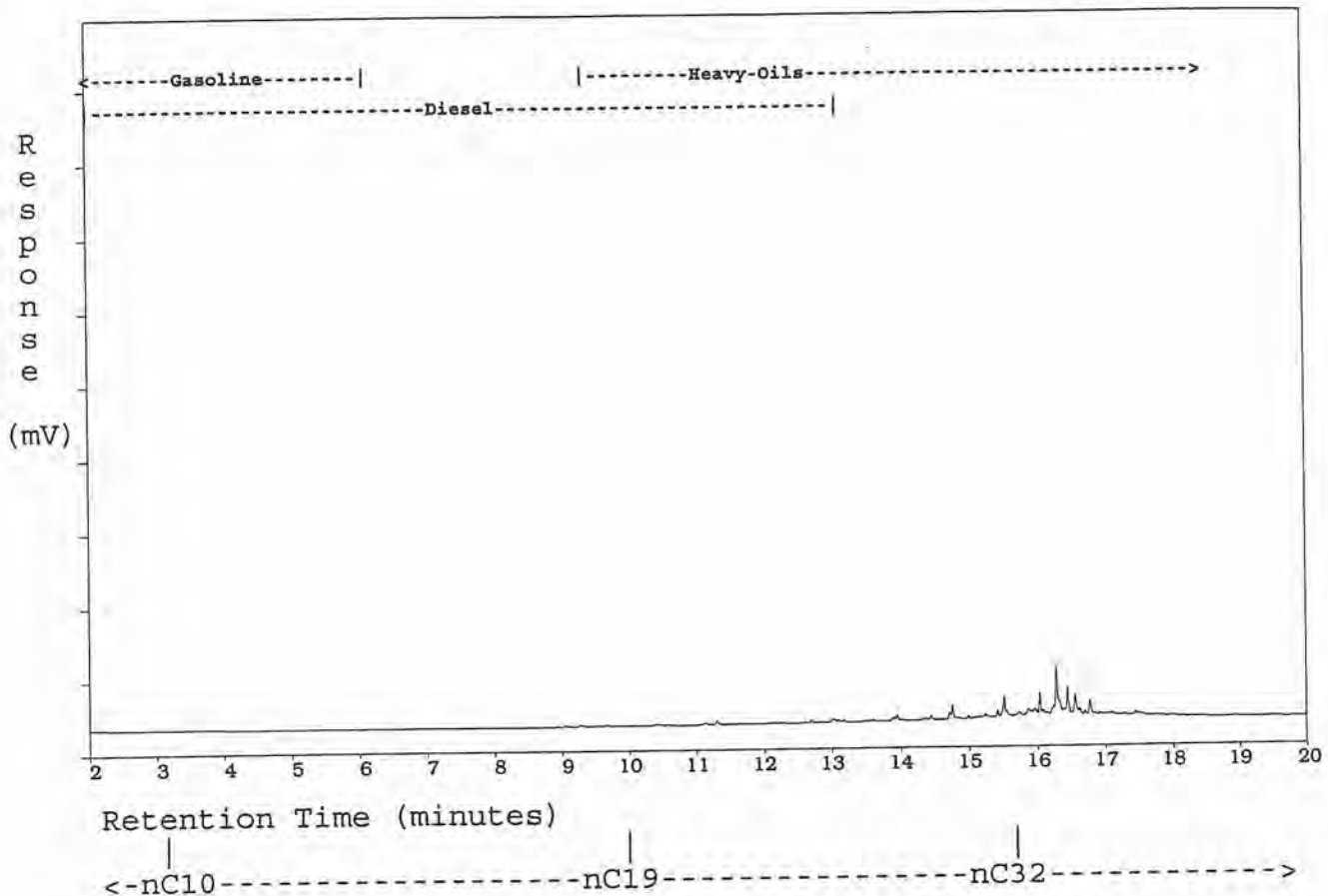
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 7 North

File Name: C:\TEH2\JL21\EH3JL21.19R ASL Sample ID: K7755-T--14 Sample acquired: JUL 21, 1999 19:13:07
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 11.7 Dilution: 8.0

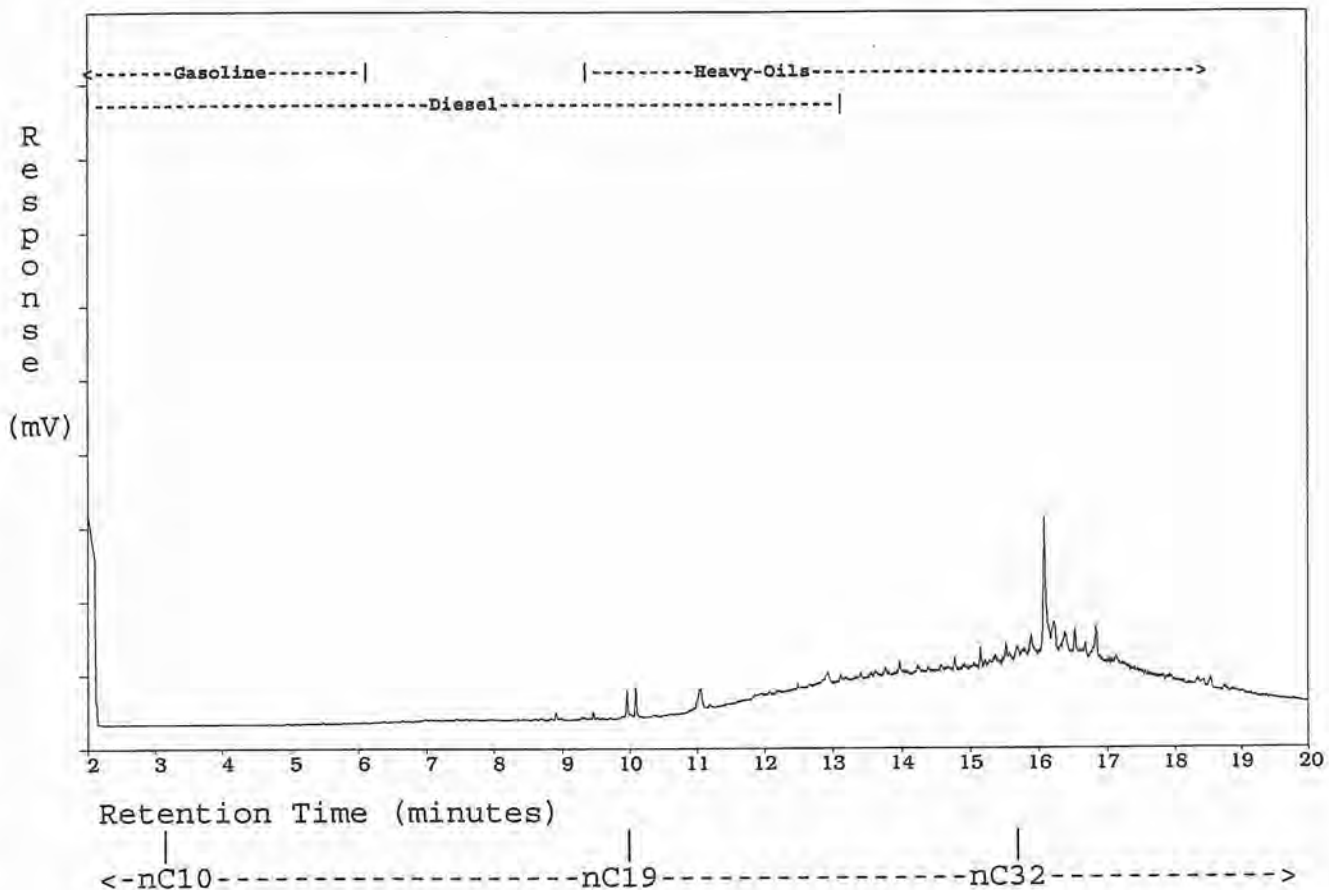
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 8

File Name: C:\TEH\JL27\EH1JL27.23R ASL Sample ID: K7755-T--15 Sample acquired: JUL 28, 1999 10:59:13
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 3.4 Dilution: 8.0

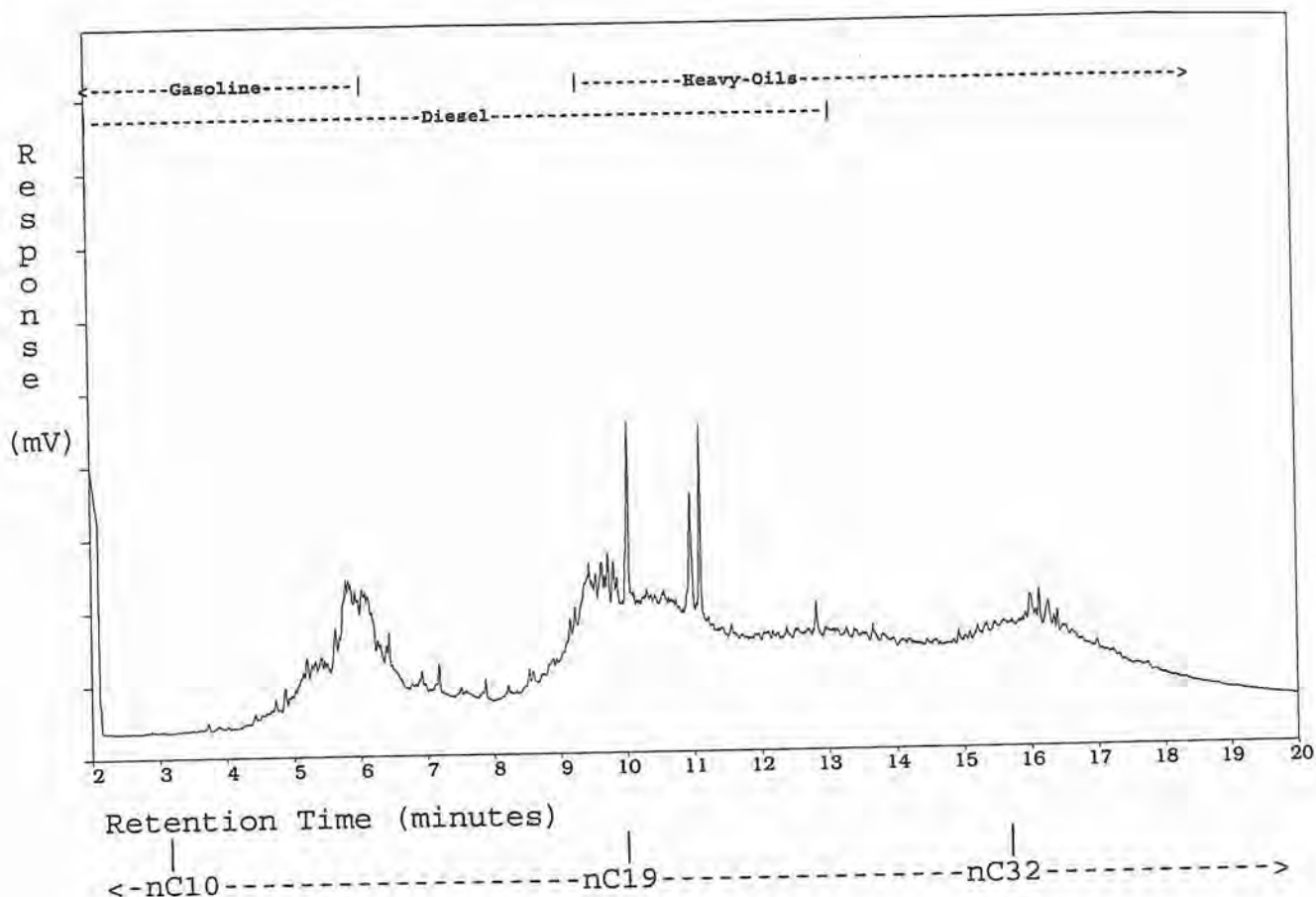
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 9

File Name: C:\TEH\JL27\EH1JL27.22R ASL Sample ID: K7755-T--16 Sample acquired: JUL 28, 1999 10:22:29
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 8.4 Dilution: 8.0

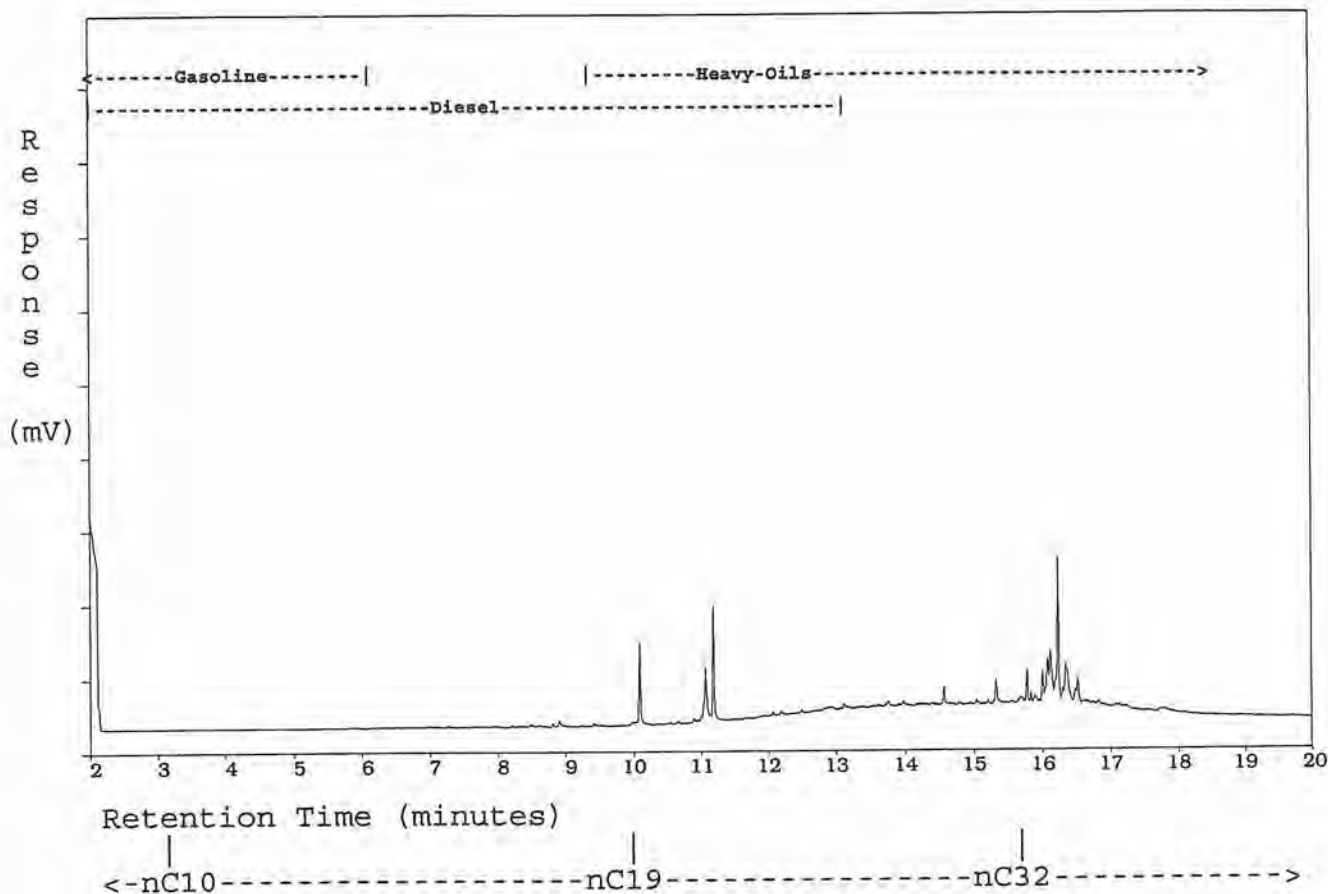
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 10

File Name: C:\TEH\JL27\EH1JL27.25R ASL Sample ID: K7755-T--17 Sample acquired: JUL 28, 1999 11:35:14
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 8.8 Dilution: 8.0

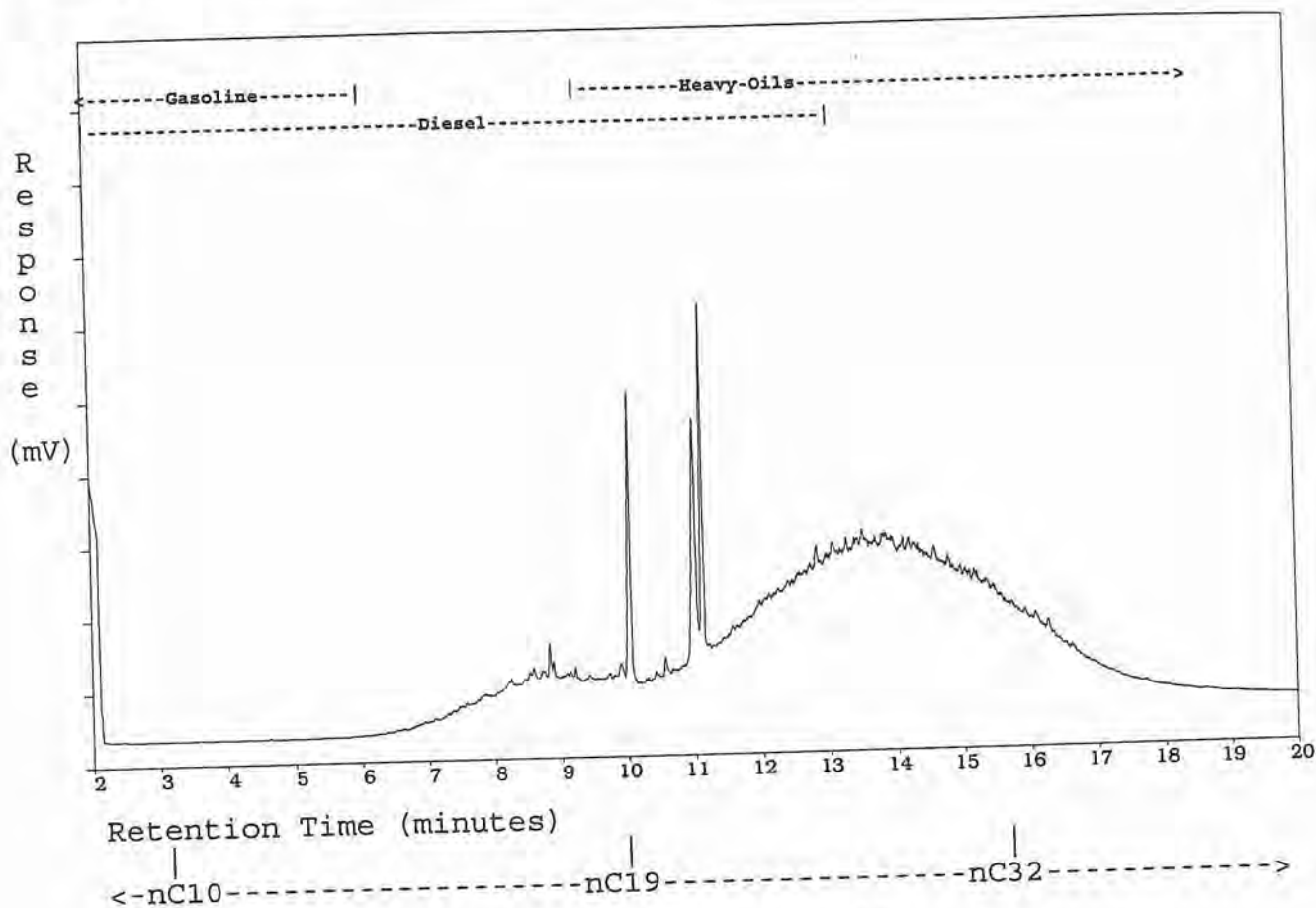
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 11

File Name: C:\TEH\JL27\EH1JL27.24R ASL Sample ID: K7755-T--18 Sample acquired: JUL 28, 1999 10:59:13
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 9.7 Dilution: 8.0

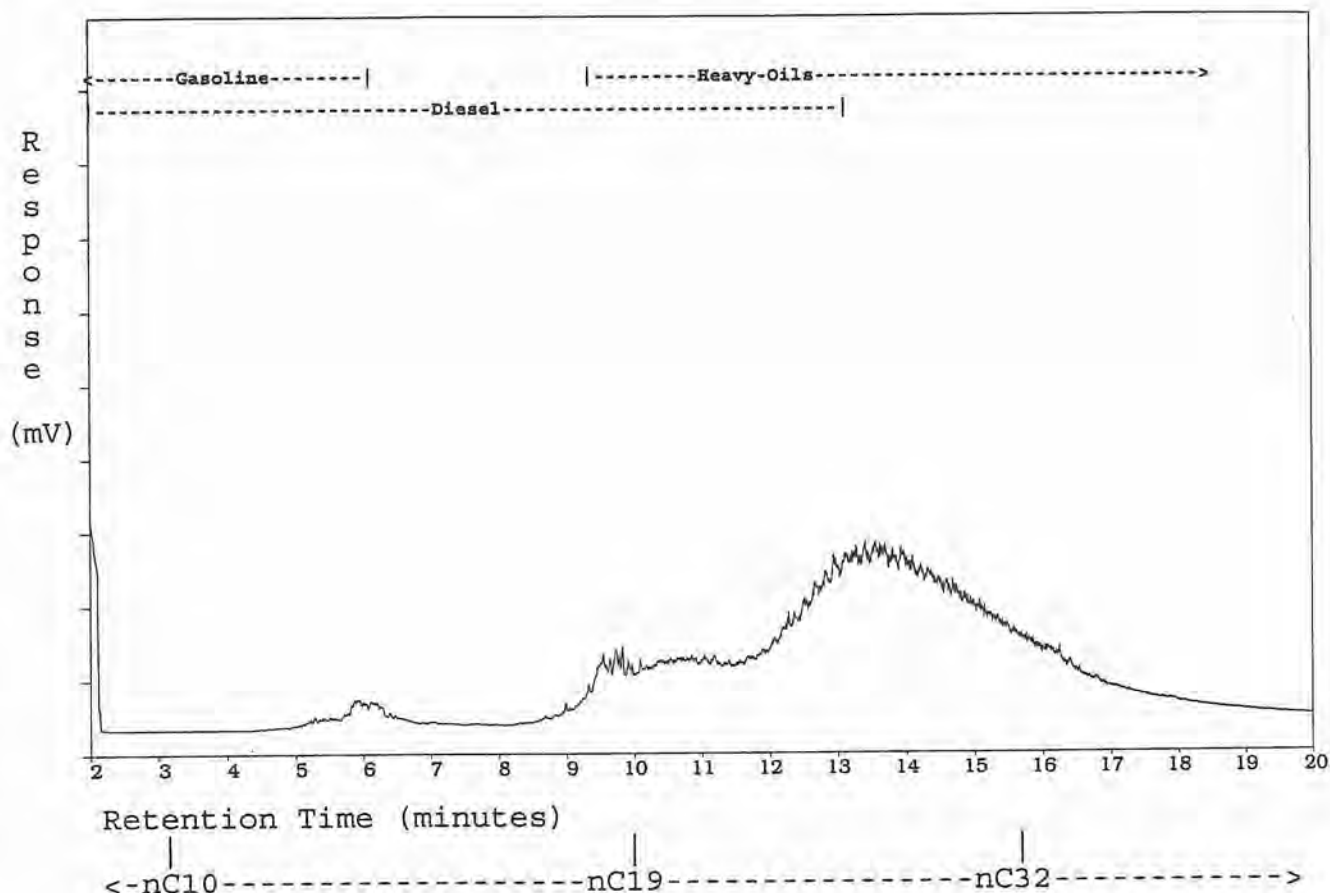
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 12

File Name: C:\TEH\JL27\EH1JL27.21R ASL Sample ID: K7755-T--19 Sample acquired: JUL 28, 1999 10:22:29
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 10.4 Dilution: 8.0

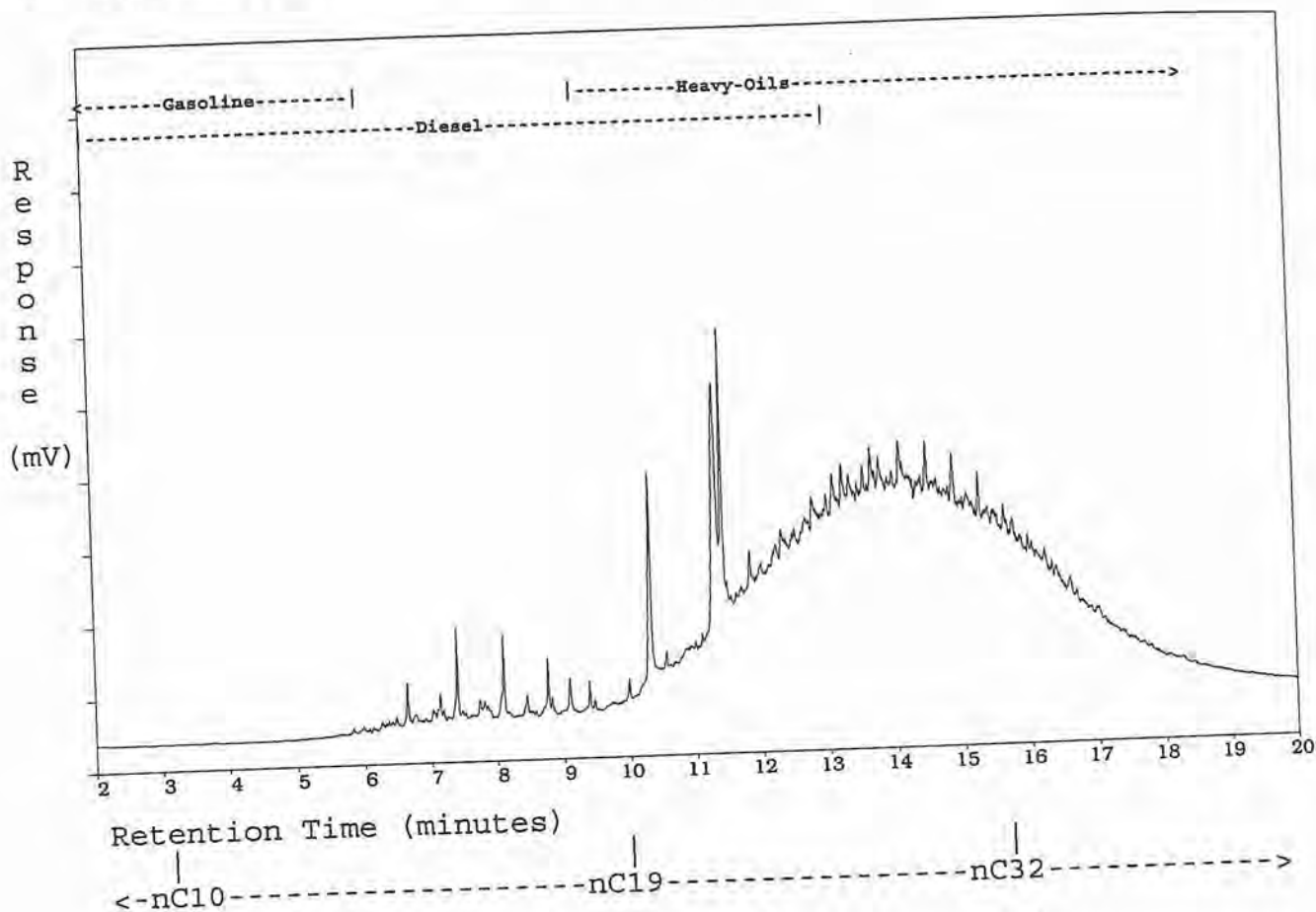
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 14

File Name: C:\TEH2\JL26\EH3JL26.93R ASL Sample ID: K7755-T--21 Sample acquired: JUL 28, 1999 10:59:42
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 9.6 Dilution: 8.0

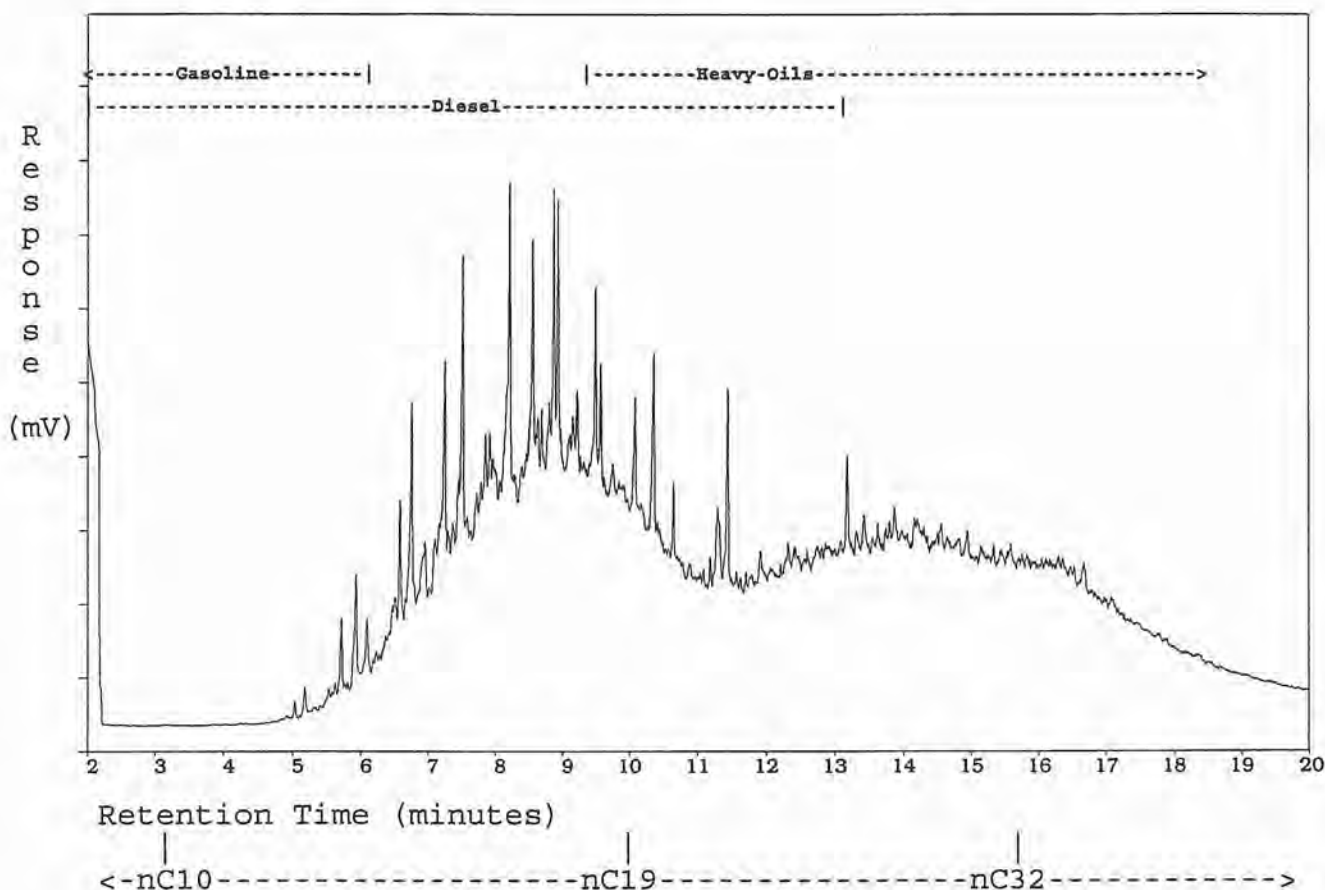
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 15

File Name: C:\TEH2\JL26\EH3JL26.94R ASL Sample ID: K7755-T--22 Sample acquired: JUL 28, 1999 10:59:42
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 9.2 Dilution: 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 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.

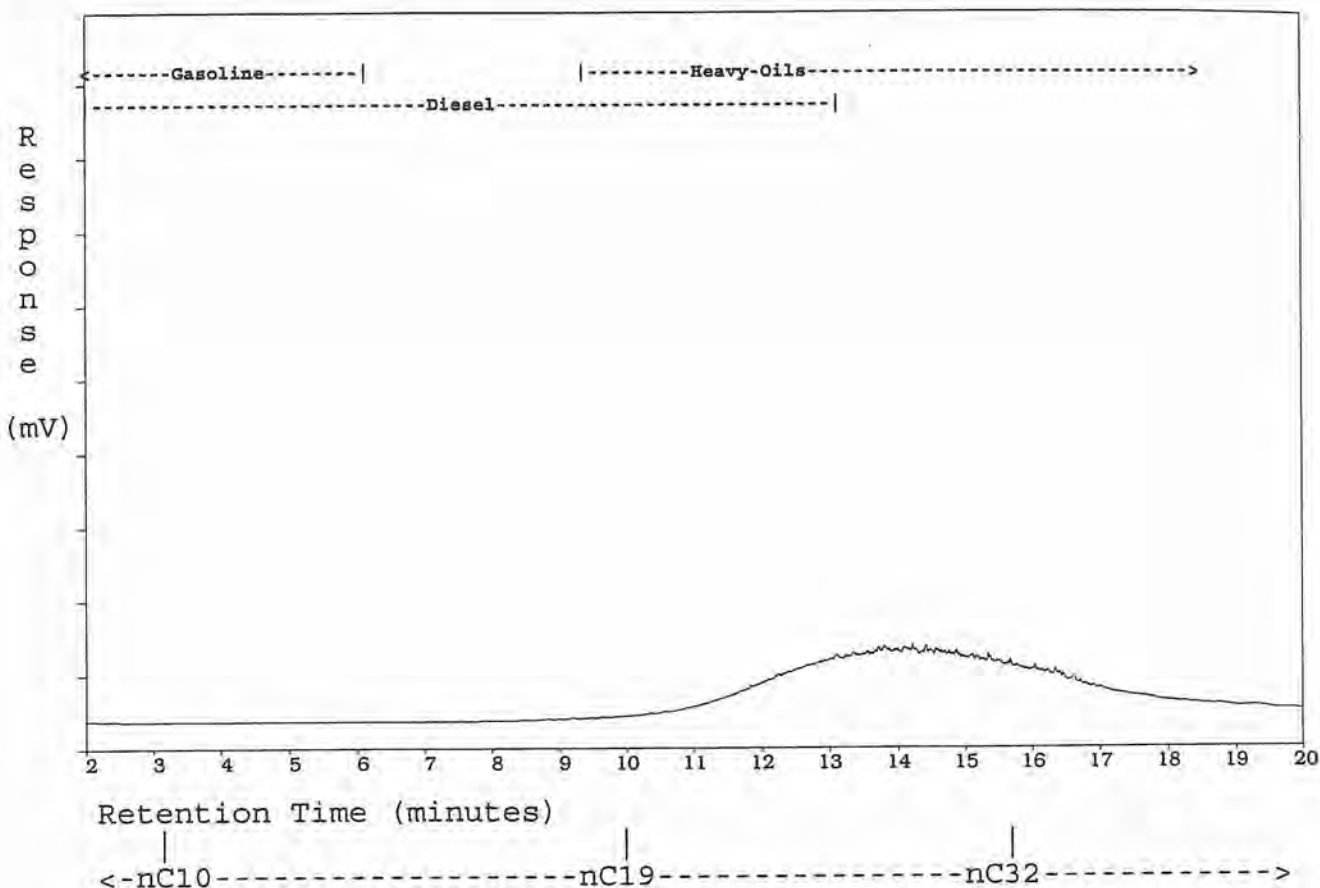
Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report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

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Site 16

File Name: C:\TEH2\JL26\EH3JL26.79R
Chromatogram Scale: 50.0 millivolts

ASL Sample ID: K7755-T--23 Sample acquired: JUL 28, 1999 06:47:46



Sample Amt. (g or mL): 7.7 Dilution: 8.0

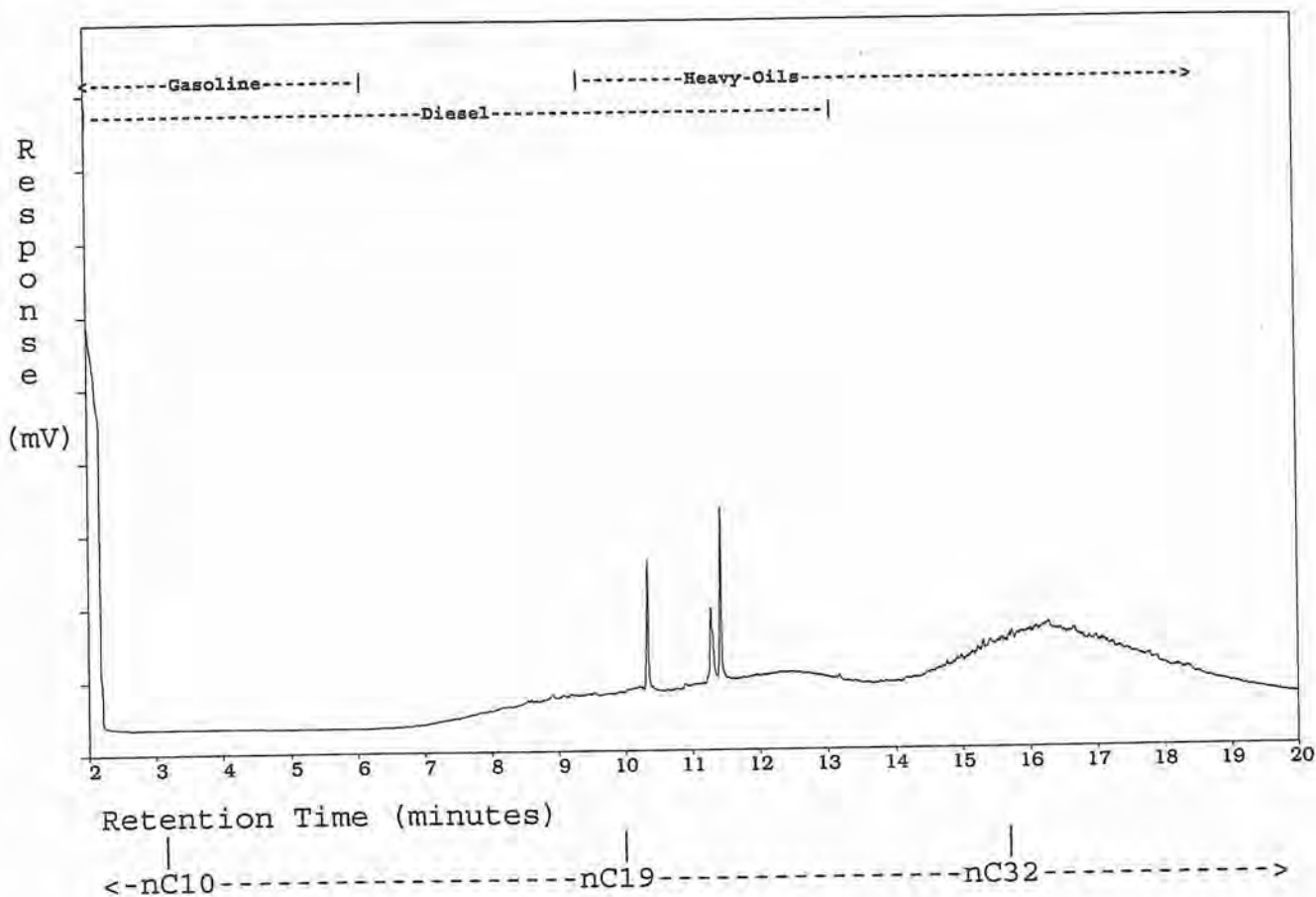
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 17

File Name: C:\TEH2\JL26\EH3JL26.80R ASL Sample ID: K7755-T--24 Sample acquired: JUL 28, 1999 06:47:46
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 8.7 Dilution: 8.0

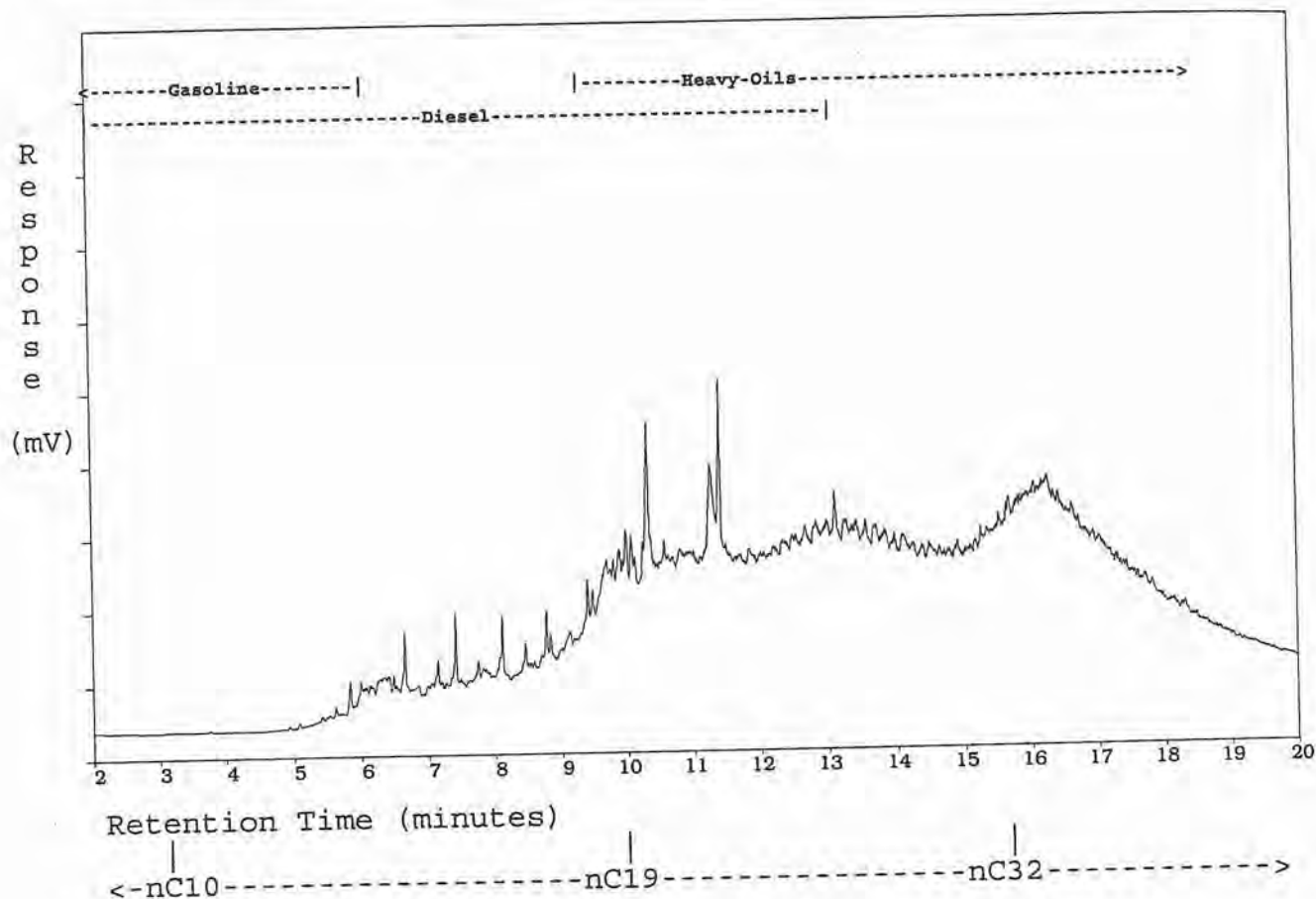
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 18

File Name: C:\TEH2\JL26\EH3JL26.95R ASL Sample ID: K7755-T--25 Sample acquired: JUL 28, 1999 11:35:20
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 11.1 Dilution: 8.0

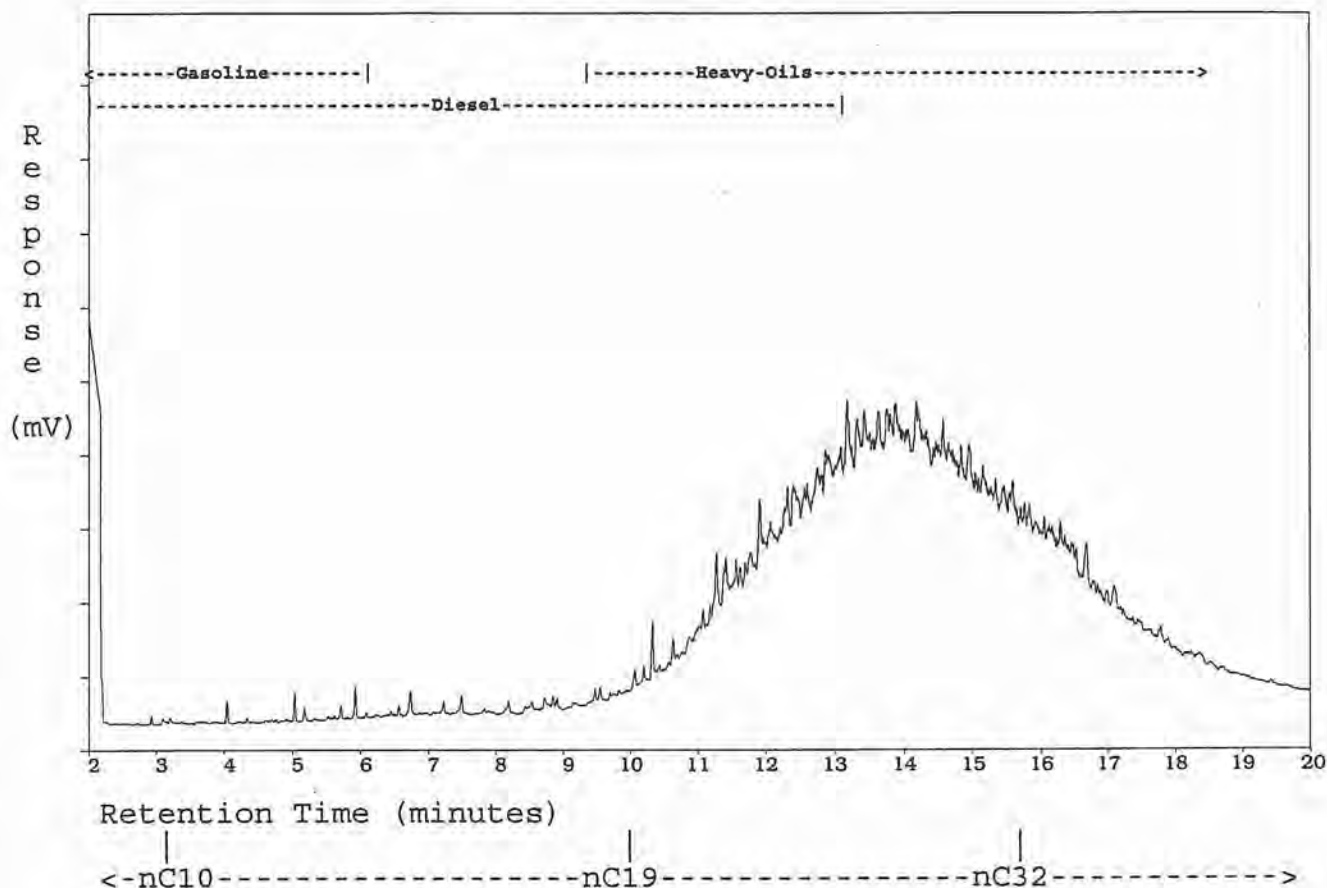
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Site 4

File Name: C:\TEH2\JL26\EH3JL26.92R ASL Sample ID: K7755-T--26 Sample acquired: JUL 28, 1999 10:23:12
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 4.3 Dilution: 8.0

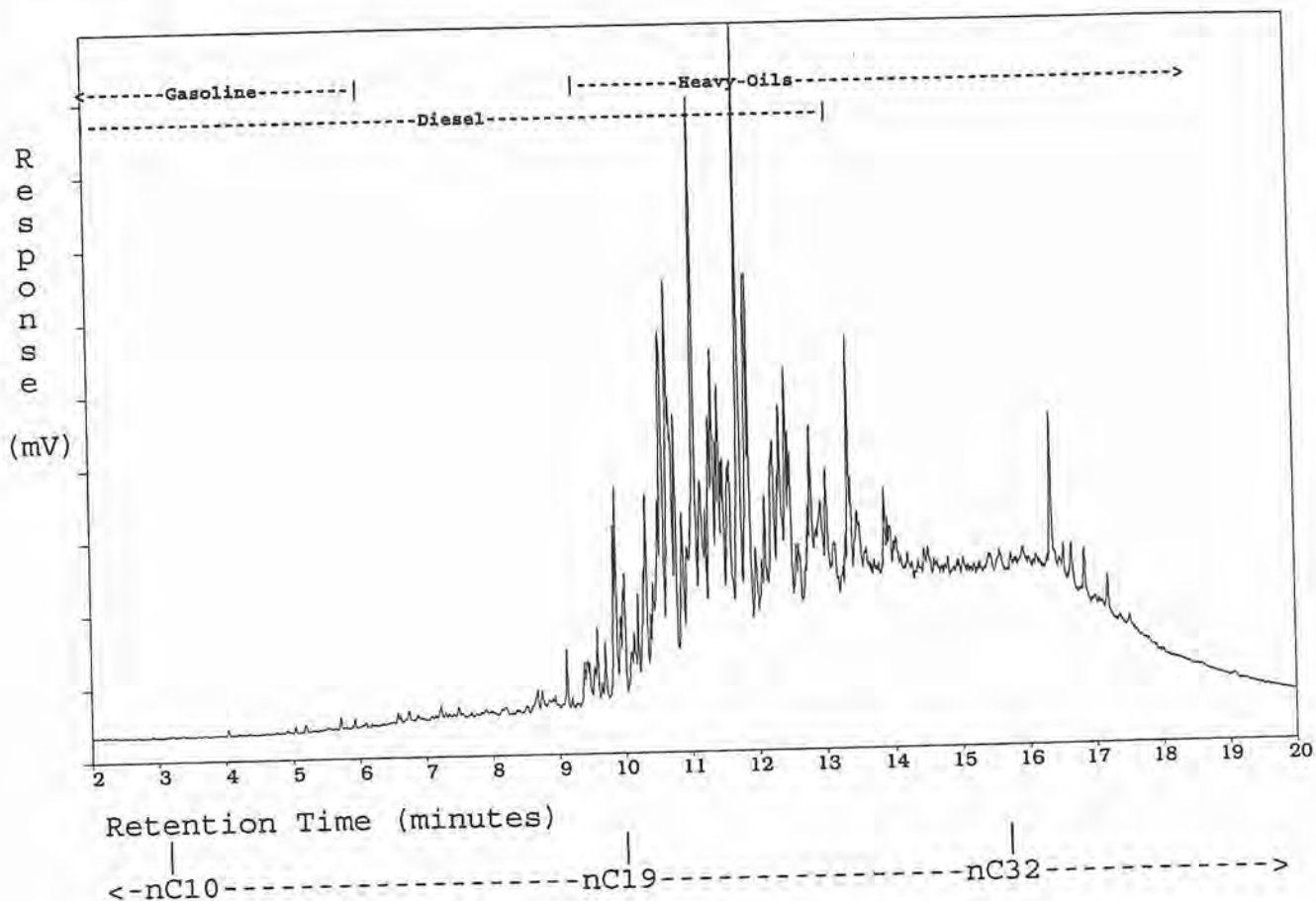
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Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. 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: All Terrain Burn

File Name: C:\TEH2\JL22\EH3JL22.40R ASL Sample ID: K7755-T--29 Sample acquired: JUL 23, 1999 00:38:14
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 8.1 Dilution: 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 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.

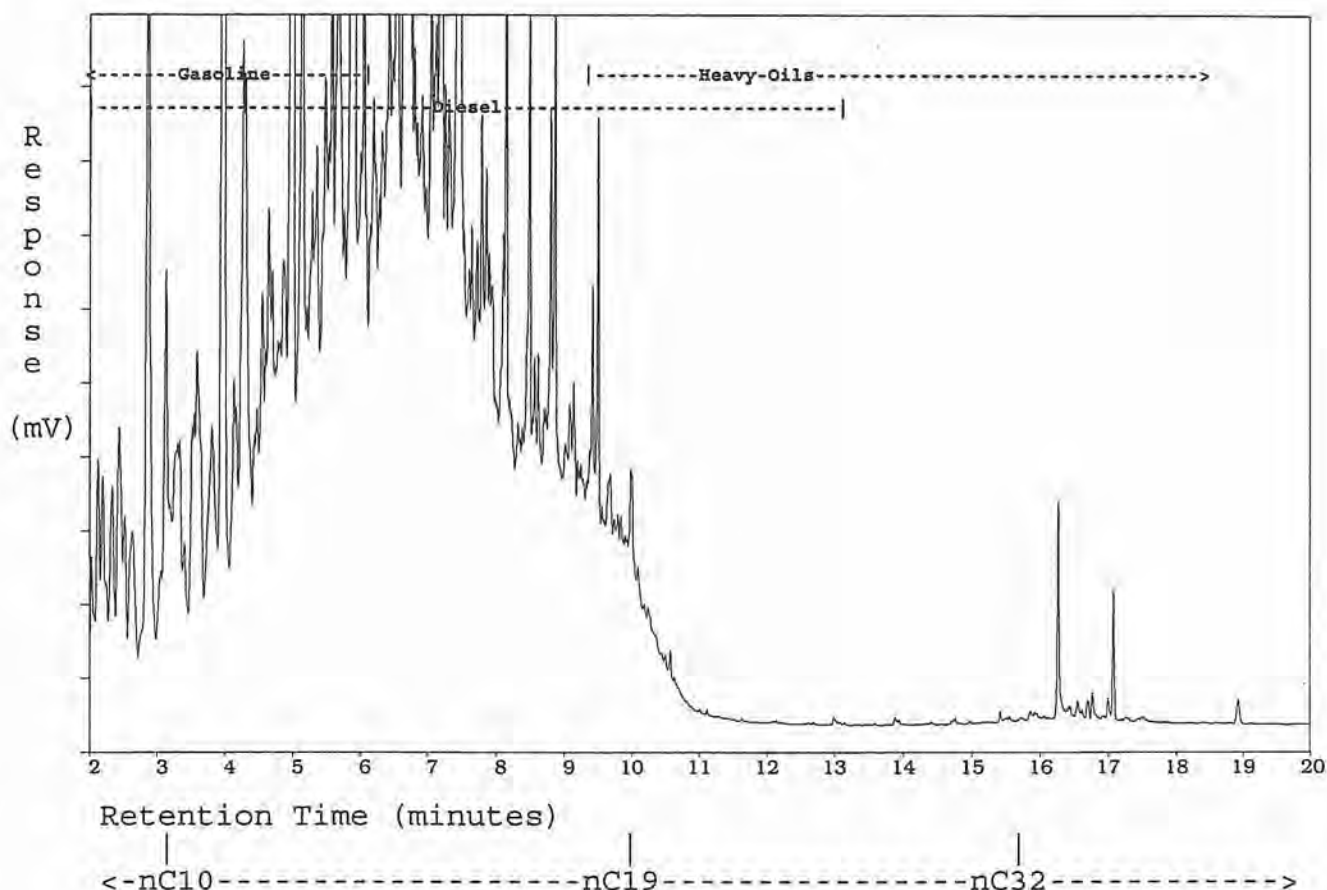
HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: 4th Tent From North

File Name: C:\TEH2\JL21\EH3JL21.21R

ASL Sample ID: K7755-T--30 Sample acquired: JUL 21, 1999 19:49:18

Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 7.3 Dilution: 8.0

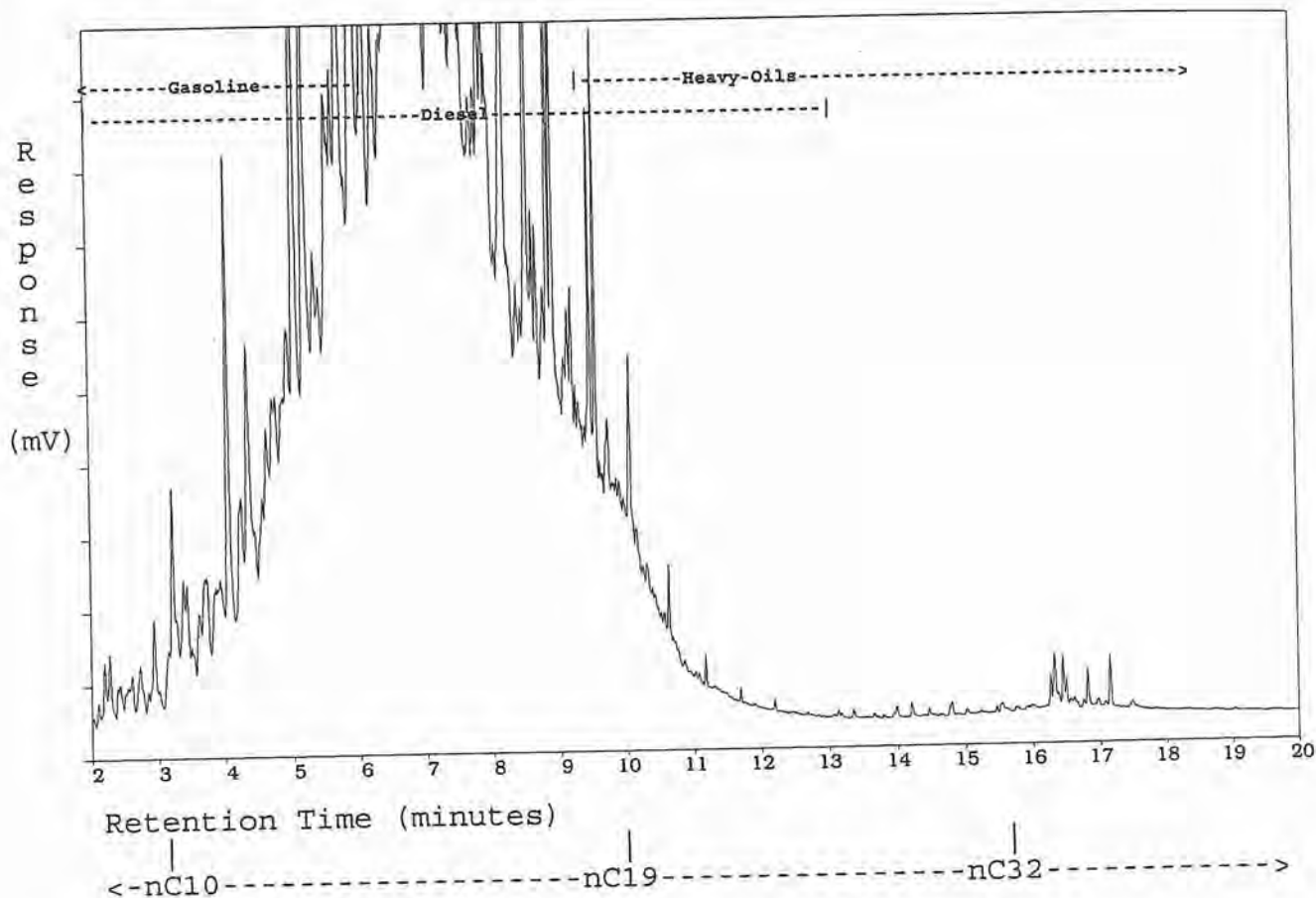
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Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. 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: 7th Tent From North

File Name: C:\TEH2\JL21\EH3JL21.22R ASL Sample ID: K7755-T--31 Sample acquired: JUL 21, 1999 19:49:18
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 7.7 Dilution: 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 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.

PAGE 1 OF 2

TPH
Salinity
b/d
find ^{the} best ^{water} speak with
Debra ^{the} gardener parameters
for Salinity
rain to
growing.

TURN AROUND REQUIRED:		SAMPLE CONDITION UPON RECEIPT:	
☐ ROUTINE (7 - 10 WORKING DAYS)		☐ FROZEN	
☐ RUSH (SPECIFY DATE): _____		☐ COLD	
SPECIAL INSTRUCTIONS:		☐ AMBIENT	

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
<i>Tim Davis</i>	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CLIENT: Boscon
 ADDRESS: Vancouver
 CONTACT: Debra Mussli
 TELEPHONE: 689-9460 FAX: _____
 PROJECT NAME/NO.: 526-9
 QUOTE / P.O. NO.: _____
 DATE SUBMITTED: _____
 ASL CONTACT: Fred Chun

1988 Triumph Street
 Vancouver, BC
 Canada V5L 1K5
 TEL: (604) 253-4188
 TOLL FREE: (800) 665-0243
 FAX: (604) 253-6700
 Specialists in
 Environmental Chemistry

 analytical service
 laboratories ltd.

ANALYSIS REQUESTED

BETX VRH TPH
 Volat. VRH
 EPH Salinity
 PAH Hold
 LEPAH/HEPH Hold
 MO&G SWO&G
 Metals - RL, RL, CL, IL ✓ AL _____
 Metals - AW _____ DW _____

FOR LAB USE ONLY			DATE / TIME COLLECTED		MATRIX	S		W		NOTES
LAB USE ONLY	SAMPLE IDENTIFICATION	Y	M	D						
17	Site 10	99	07	15	AM					
18	Site 11	"	"	"	PM					
19	Site 12	"	"	"	AM					
20	Site 13	"	"	"	PM					
21	Site 14	"	"	"	AM					
22	Site 15	"	"	"	PM					
23	Site 16	"	"	"	AM					
24	Site 17	"	"	"	PM					
25	Site 18	"	"	"	AM					
26	Site 4	"	"	"	PM					
27	Site 5	"	"	"	AM					
28	Pat's Lake Salt Barn	"	"	"	PM					
29	111 Terrain Barn	"	"	"	AM					
30	4134 Tent from Nantah	"	"	"	PM					
31	714 Tent from Nantah	"	"	"	AM					
	Windy Camp Drinking H ₂ O	99	07	15	PM					

TURN-AROUND REQUIRED:
☐ ROUTINE (7 - 10 WORKING DAYS)
☐ RUSH (SPECIFY DATE): _____
 SPECIAL INSTRUCTIONS:
☐ UPON RECEIPT:
☐ FROZEN
☐ COLD
☐ AMBIENT
 RELINQUISHED BY: Joe Davis DATE: July 15/99
 RECEIVED BY: _____ DATE: _____
 TIME: _____ TIME: _____

Held contact Debra Mussli?
 CUSTOMIZED - BRITISH COLUMBIA, CSR
 REPORT COPY
 Normal/pptg2/DOCS/FORMS/ChmCst4g.doc
 SOP2 04.05
 TSP02 04.05



CHEMICAL ANALYSIS REPORT

Date: August 23, 1999
ASL File No. K7750r
Report On: 526-9 ARD Stockpile Runoff
Water Quality Analysis
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: July 17, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:

A handwritten signature in cursive script, appearing to read 'Katherine Thomas'.

Katherine Thomas, B.Sc. - Supervisor, Trace Metals Lab
Scott Hannam - Manager, Laboratory Operations



REMARKS

File No. K7750r

Please note that this report (K7750r) replaces the original report, K7750. The Total Chromium detection limit for the sample identified as "Boston Stockpile 4" was lowered from 0.01 mg/L to 0.002 mg/L.

The detection limits for the Total Metals for the sample "Boston Stockpile 4" were increased due to the elevated mineral content. This sample was diluted prior to analysis and the metals detection limits were increased accordingly.



RESULTS OF ANALYSIS - Water

File No. K7750r

Sample ID	Boston Stock- pile 2	Boston Stock- pile 3	Boston Stock- pile 4
Sample Date	99 07 14	99 07 14	99 07 14

Physical Tests

	(umhos/cm)			
Conductivity		2550	2640	9320
pH		7.68	7.27	6.68

Dissolved Anions

Acidity (to pH 8.3)	CaCO3	18	39	67
Alkalinity-Total	CaCO3	230	286	70
Sulphate	SO4	355	380	510

Nutrients

Ammonia Nitrogen	N	-	13.3	-
Nitrate Nitrogen	N	-	8.48	-
Total Phosphate	P	-	1.31	-

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.



RESULTS OF ANALYSIS - Water

File No. K7750r

Sample ID		Boston Stock- pile 2	Boston Stock- pile 3	Boston Stock- pile 4	Travel Blank
Sample Date		99 07 14	99 07 14	99 07 14	
Total Metals					
Aluminum	T-Al	0.103	0.318	0.03	<0.001
Antimony	T-Sb	0.0279	0.0221	0.026	<0.00005
Arsenic	T-As	2.02	1.16	0.120	<0.0001
Barium	T-Ba	0.0476	0.0579	0.190	<0.00005
Beryllium	T-Be	<0.003	<0.003	<0.01	<0.0005
Bismuth	T-Bi	<0.003	<0.003	<0.01	<0.0005
Boron	T-B	0.394	0.365	0.40	<0.001
Cadmium	T-Cd	<0.0003	<0.0003	<0.001	<0.00005
Calcium	T-Ca	169	171	875	<0.05
Chromium	T-Cr	<0.003	<0.003	<0.002	<0.0005
Cobalt	T-Co	0.233	0.219	0.110	<0.0001
Copper	T-Cu	0.0161	0.0139	0.017	<0.0001
Iron	T-Fe	2.8	2.6	0.07	<0.03
Lead	T-Pb	0.0015	0.0024	0.002	<0.00005
Lithium	T-Li	0.032	0.029	0.17	<0.001
Magnesium	T-Mg	73.4	73.7	159	<0.1
Manganese	T-Mn	0.438	0.757	1.03	<0.00005
Mercury	T-Hg	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum	T-Mo	0.0057	0.0050	0.005	<0.00005
Nickel	T-Ni	1.12	0.989	0.373	<0.0001
Phosphorus	T-P	<0.3	0.5	<0.3	<0.3
Potassium	T-K	40	38	97	<2
Selenium	T-Se	0.0049	0.0052	0.04	<0.001
Silicon	T-Si	6.75	6.15	4.25	<0.05
Silver	T-Ag	0.00009	0.00011	<0.0002	<0.00001
Sodium	T-Na	209	203	412	<0.01
Strontium	T-Sr	1.43	1.34	13.3	<0.0001
Thallium	T-Tl	0.0003	0.0003	<0.001	<0.00005
Tin	T-Sn	<0.0005	<0.0005	<0.002	<0.0001
Titanium	T-Ti	<0.01	0.01	<0.01	<0.01
Uranium	T-U	0.00138	0.00118	0.0003	<0.00001
Vanadium	T-V	<0.005	0.006	<0.02	<0.001
Zinc	T-Zn	0.009	0.013	0.03	<0.001

Remarks regarding the analyses appear at the beginning of this report.
Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.



METHODOLOGY

File No. K7750r

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. K7750r

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

End of Report

service

laboratories

ltd.



CHEMICAL ANALYSIS REPORT

Date: July 29, 1999
ASL File No. K7752
Report On: 526-9 Windy Lake Water Quality
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: July 17, 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. K7752

Sample ID	Windy L. Control	Windy L. Control	Windy L. Camp	Windy L. Camp
Sample Date	Rep 1 99 07 15	Rep 2 99 07 15	Rep 1 99 07 15	Rep 2 99 07 15

Physical Tests

Conductivity (umhos/cm)	421	422	390	388
Total Dissolved Solids	216	222	222	238
Hardness CaCO ₃	69.2	70.6	72.7	72.2
pH	7.34	7.52	7.53	7.57
Total Suspended Solids	<3	<3	<3	4

Dissolved Anions

Acidity (to pH 8.3)	CaCO ₃	3	2	2
Alkalinity-Total	CaCO ₃	46	46	47

Nutrients

Ammonia Nitrogen	N	0.02	0.02	0.02
Nitrate Nitrogen	N	<0.005	<0.005	<0.005

Bacteriological Tests

Coliform Bacteria - Fecal		<1	<1	<1
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Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Water

File No. K7752

Sample ID		Windy L. Control Rep 1	Windy L. Control Rep 2	Windy L. Camp Rep 1	Windy L. Camp Rep 2
Sample Date		99 07 15	99 07 15	99 07 15	99 07 15
Total Metals					
Aluminum	T-Al	0.030	0.031	0.133	0.105
Antimony	T-Sb	0.00005	0.00005	0.00005	0.00005
Arsenic	T-As	0.0007	0.0007	0.0007	0.0007
Barium	T-Ba	0.00230	0.00233	0.00328	0.00302
Beryllium	T-Be	<0.0005	<0.0005	<0.0005	<0.0005
Bismuth	T-Bi	<0.0005	<0.0005	<0.0005	<0.0005
Boron	T-B	0.042	0.042	0.043	0.043
Cadmium	T-Cd	<0.00005	<0.00005	<0.00005	<0.00005
Calcium	T-Ca	11.3	11.5	12.0	11.9
Chromium	T-Cr	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	T-Co	<0.0001	<0.0001	<0.0001	<0.0001
Copper	T-Cu	0.0010	0.0009	0.0012	0.0010
Iron	T-Fe	<0.03	<0.03	0.10	0.08
Lead	T-Pb	0.00013	0.00009	0.00013	0.00011
Lithium	T-Li	0.003	0.002	0.003	0.003
Magnesium	T-Mg	10.0	10.1	10.4	10.3
Manganese	T-Mn	0.00226	0.00230	0.00347	0.00303
Mercury	T-Hg	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum	T-Mo	0.00063	0.00063	0.00064	0.00063
Nickel	T-Ni	0.0002	0.0002	0.0003	0.0002
Phosphorus	T-P	<0.3	<0.3	<0.3	<0.3
Potassium	T-K	4	4	3	3
Selenium	T-Se	<0.002	<0.002	<0.002	<0.002
Silicon	T-Si	0.28	0.29	0.47	0.47
Silver	T-Ag	<0.00001	<0.00001	<0.00001	<0.00001
Sodium	T-Na	55	56	58	57
Strontium	T-Sr	0.0546	0.0539	0.0576	0.0548
Thallium	T-Tl	<0.00005	<0.00005	<0.00005	<0.00005
Tin	T-Sn	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	T-Ti	<0.01	<0.01	<0.01	<0.01
Uranium	T-U	0.00018	0.00018	0.00020	0.00020
Vanadium	T-V	<0.001	<0.001	<0.001	<0.001
Zinc	T-Zn	<0.001	<0.001	<0.001	<0.001
Extractables					
EPH (C10-18)		<0.1	<0.1	<0.1	<0.1
EPH (C19-31)		<0.1	<0.1	<0.1	<0.1

Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.

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. K7752

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

Extractable Hydrocarbons in Water

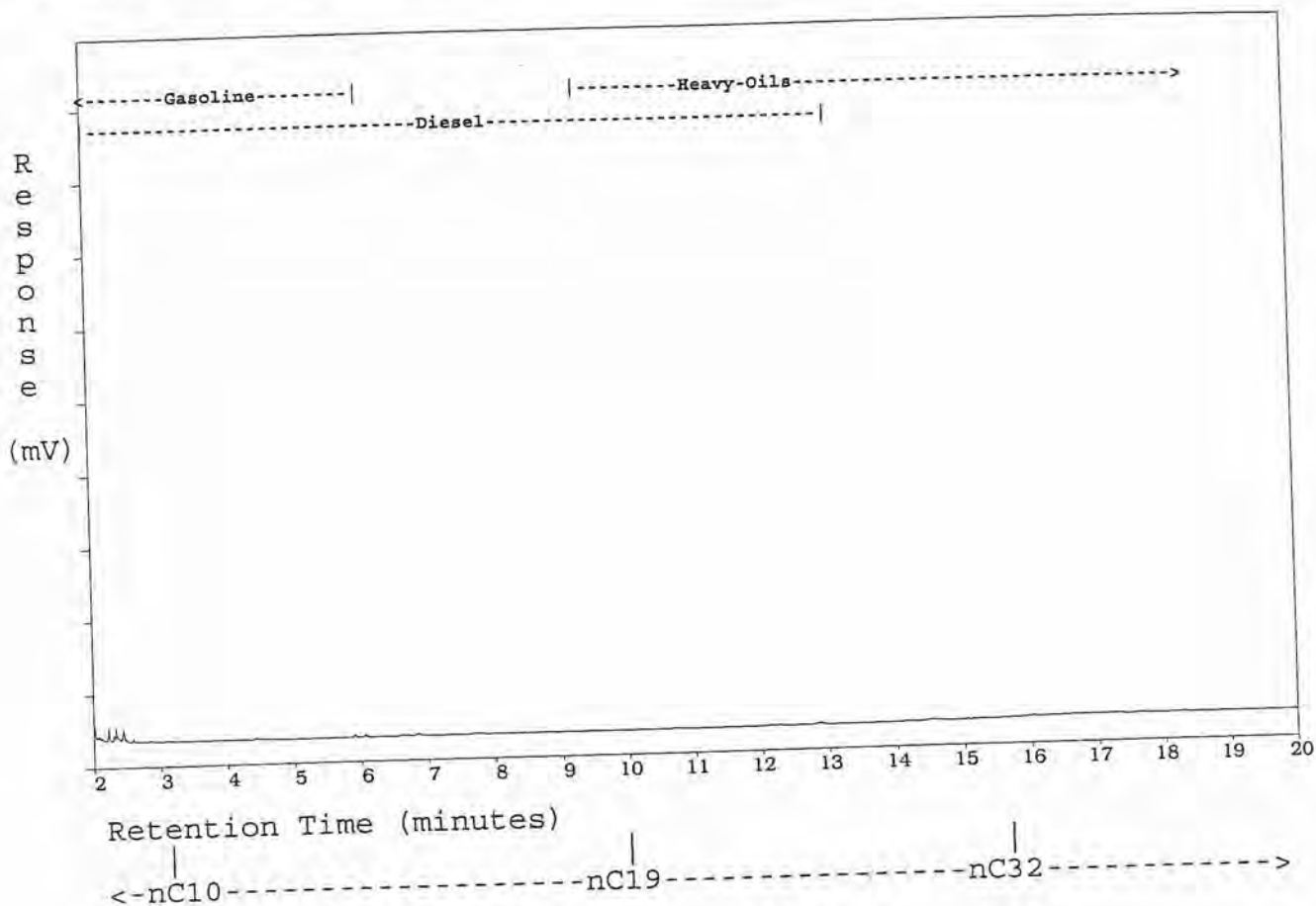
This analysis is carried out using procedures adapted from U.S. EPA Methods 3510/8015 (Publ. #SW-846, 3rd ed., Washington, DC 20460) and British Columbia Ministry of Environment, Lands and Parks Method for "Extractable Petroleum Hydrocarbons in Water by GC/FID" (January 1996). The procedure involves a methylene chloride solvent extraction followed by analysis of the extract by capillary column gas chromatography with flame ionization detection. Results are not corrected for Polycyclic Aromatic Hydrocarbons (PAHs) for Extractable Petroleum Hydrocarbon (LEPH/HEPH) purposes.

End of Report

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Windy L Control Rep 1

File Name: C:\TEH\JL22\EH1JL22.32R ASL Sample ID: K7752-T--1 Sample acquired: JUL 22, 1999 22:16:58
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 530.0 Dilution: 0.5

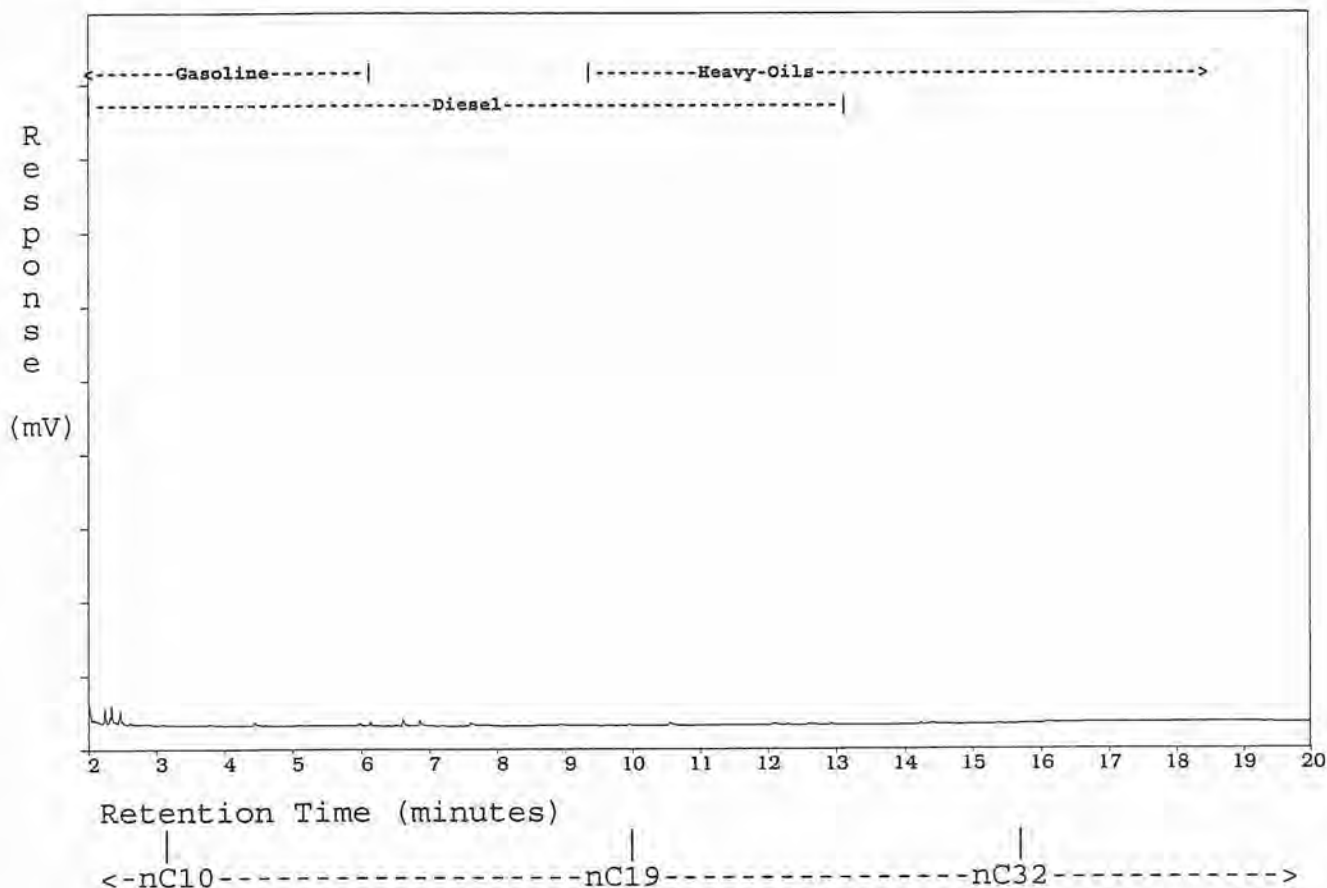
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Windy L Control Rep 2

File Name: C:\TEH\JL22\EH1JL22.33R ASL Sample ID: K7752-T--2 Sample acquired: JUL 22, 1999 22:52:01
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 530.0 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.

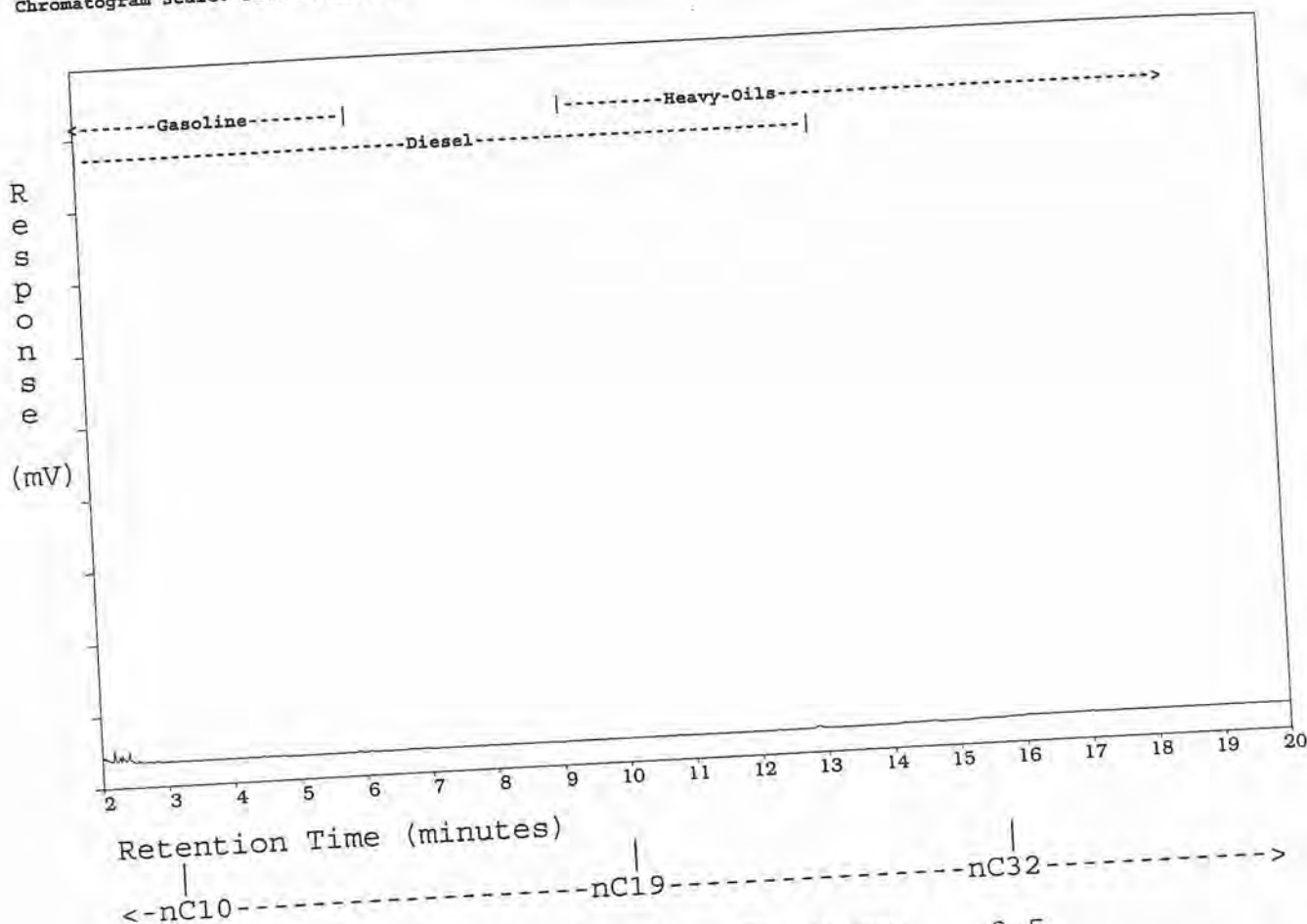
Note: This Hydrocarbon Distribution Report was produced using a temperature profile which was implemented on June 21st, 1999. Under these new conditions hydrocarbon compounds elute sooner than before, although characteristic patterns will appear similar. Please exercise caution when comparing this report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

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Windy L Camp

Rep 1

File Name: C:\TEH\JL22\EH1JL22.34R ASL Sample ID: K7752-T--3 Sample acquired: JUL 22, 1999 22:52:01
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 500.0 Dilution: 0.5

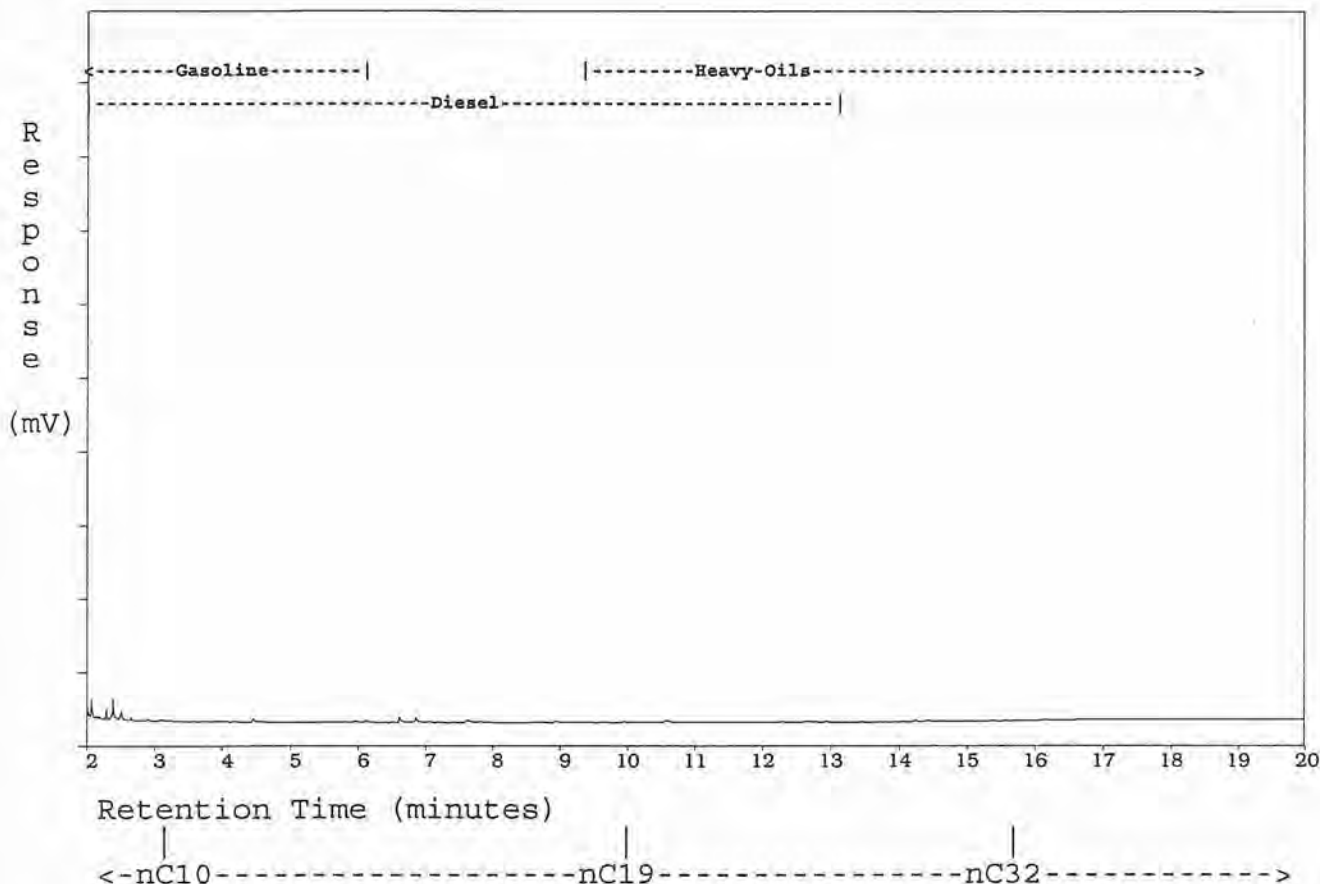
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Windy L Camp Rep 2

File Name: C:\TEH\JL22\EH1JL22.35R ASL Sample ID: K7752-T--4 Sample acquired: JUL 22, 1999 23:27:08
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 515.0 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.



CHEMICAL ANALYSIS REPORT

Date: July 28, 1999
ASL File No. K7751
Report On: 526-9 Windy Camp Water Analysis
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: July 18, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:

A handwritten signature in cursive script, appearing to read "Frederick Chen", is written over a horizontal line.

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





RESULTS OF ANALYSIS - Water

File No. K7751

Sample ID	Windy Camp Diesel	Windy Camp Drums
Sample Date	99 07 15	99 07 15

Physical Tests

Conductivity	(umhos/cm)	427	865
Total Dissolved Solids		264	660
Hardness	CaCO ₃	174	272
pH		7.85	7.12
Total Suspended Solids		5	11

Dissolved Anions

Acidity (to pH 8.3)	CaCO ₃	4	8
Alkalinity-Total	CaCO ₃	147	77

Nutrients

Ammonia Nitrogen	N	0.24	0.09
Nitrate Nitrogen	N	0.006	0.007

Bacteriological Tests

Coliform Bacteria - Fecal		<2	<2
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Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Most Probable Number (MPN) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Water**

File No. K7751

Sample ID	Windy Camp Diesel	Windy Camp Drums
Sample Date	99 07 15	99 07 15

Total Metals

Aluminum	T-Al	0.010	0.014
Antimony	T-Sb	0.00030	<0.0001
Arsenic	T-As	0.0008	0.0010
Barium	T-Ba	0.00975	0.0168
Beryllium	T-Be	<0.0005	<0.001
Bismuth	T-Bi	<0.0005	<0.001
Boron	T-B	0.044	0.008
Cadmium	T-Cd	<0.00005	<0.0001
Calcium	T-Ca	42.6	69.7
Chromium	T-Cr	<0.0005	<0.001
Cobalt	T-Co	0.0003	0.0012
Copper	T-Cu	0.0014	0.0019
Iron	T-Fe	0.63	0.27
Lead	T-Pb	0.00010	0.0004
Lithium	T-Li	0.003	0.007
Magnesium	T-Mg	16.5	23.8
Manganese	T-Mn	0.00859	0.0460
Mercury	T-Hg	<0.00005	<0.00005
Molybdenum	T-Mo	0.00026	0.0001
Nickel	T-Ni	0.0018	0.0027
Phosphorus	T-P	<0.3	<0.3
Potassium	T-K	3	<2
Selenium	T-Se	<0.001	<0.004
Silicon	T-Si	0.37	6.72
Silver	T-Ag	<0.00001	<0.00002
Sodium	T-Na	22	56
Strontium	T-Sr	0.0832	0.120
Thallium	T-Tl	<0.00005	<0.0001
Tin	T-Sn	<0.0001	<0.0002
Titanium	T-Ti	<0.01	<0.01
Uranium	T-U	0.00023	<0.00002
Vanadium	T-V	<0.001	<0.002
Zinc	T-Zn	<0.001	0.005

Extractables

EPH (C10-18)	<0.1	<0.1
EPH (C19-31)	<0.1	<0.1

Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Most Probable Number (MPN) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.



METHODOLOGY

File No. K7751

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. K7751

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

Extractable Hydrocarbons in Water

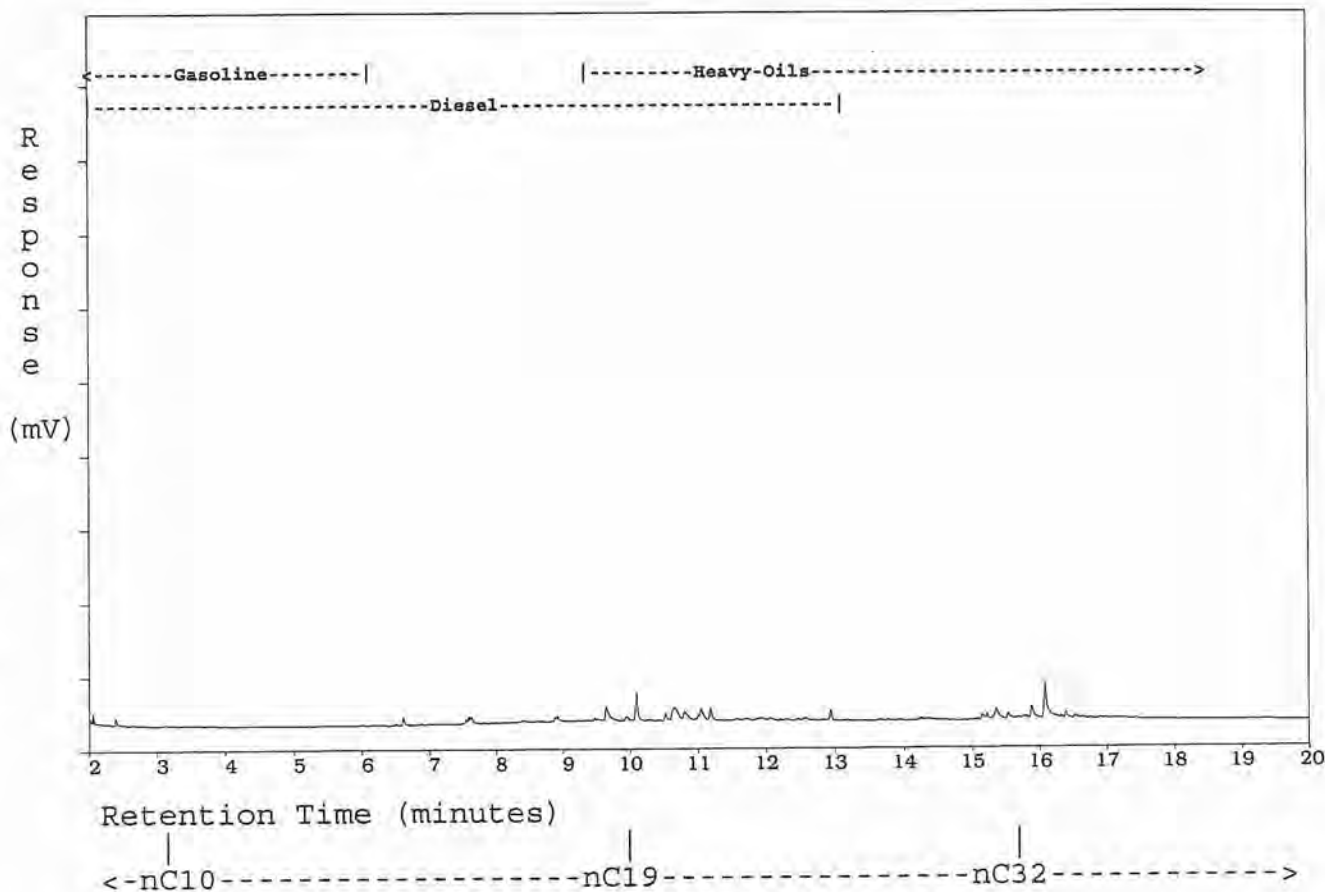
This analysis is carried out using procedures adapted from U.S. EPA Methods 3510/8015 (Publ. #SW-846, 3rd ed., Washington, DC 20460) and British Columbia Ministry of Environment, Lands and Parks Method for "Extractable Petroleum Hydrocarbons in Water by GC/FID" (January 1996). The procedure involves a methylene chloride solvent extraction followed by analysis of the extract by capillary column gas chromatography with flame ionization detection. Results are not corrected for Polycyclic Aromatic Hydrocarbons (PAHs) for Extractable Petroleum Hydrocarbon (LEPH/HEPH) purposes.

End of Report

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Windy Camp Diesel

File Name: C:\TEH\JL22\EH1JL22.45R ASL Sample ID: K7751-T--1 Sample acquired: JUL 23, 1999 02:22:34
Chromatogram Scale: 50.0 millivolts



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

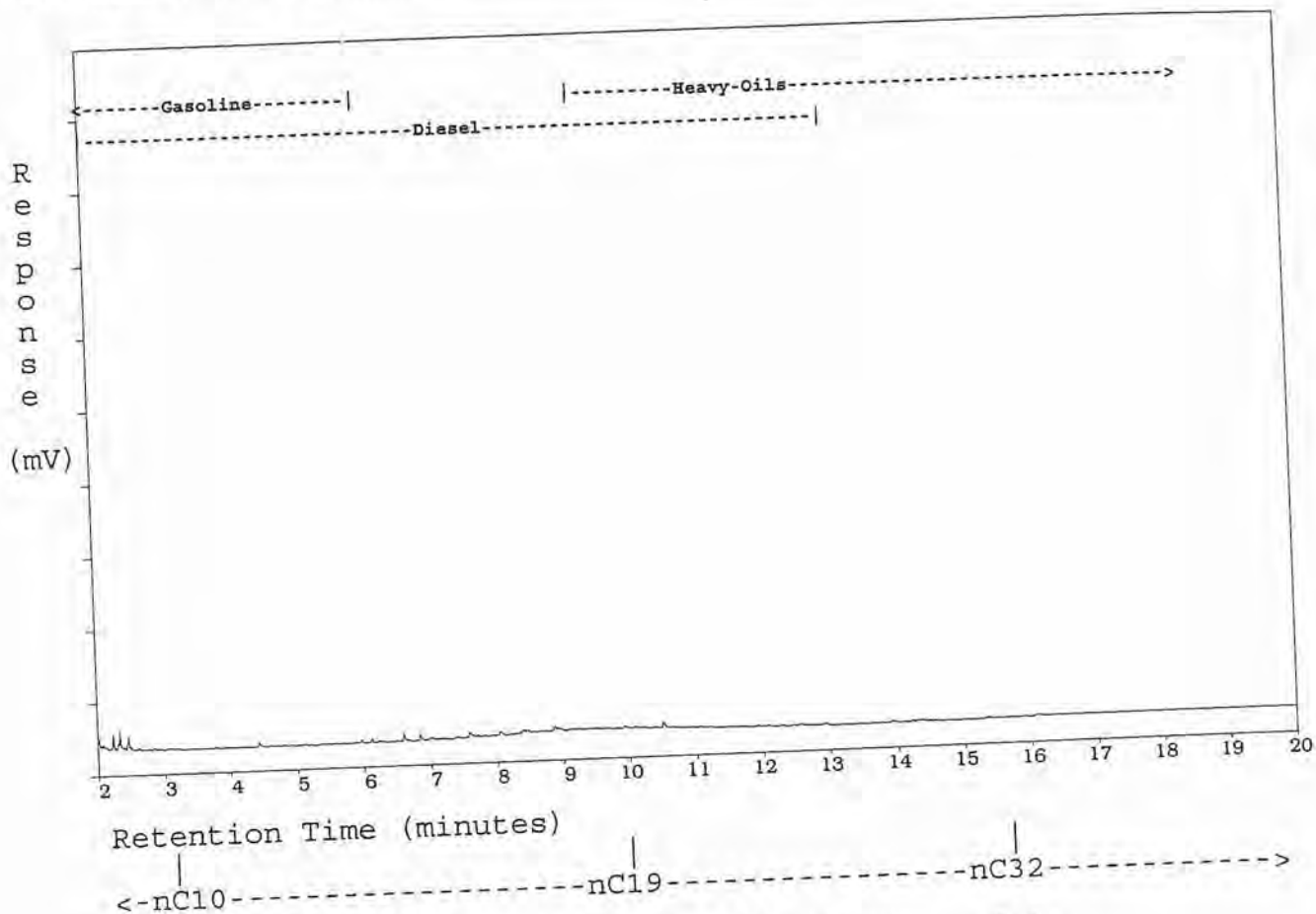
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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.

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Windy Camp Drums

File Name: C:\TEH\JL22\EH1JL22.31R ASL Sample ID: K7751-T--2 Sample acquired: JUL 22, 1999 22:16:58
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 530.0 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.

PAGE ____ OF ____

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CHEMICAL ANALYSIS REPORT

Date: July 20, 1999
ASL File No. K7756
Report On: 526-9 Windy Bay Camp
Drinking Water Analysis
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: July 17, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:

A handwritten signature in black ink, appearing to read 'Frederick Chen', is written over the printed name.

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





RESULTS OF ANALYSIS - Water

File No. K7756

Windy
Camp
Tapwater
99 07 15

Bacteriological Tests

Coliform Bacteria - Fecal

<1

Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.



METHODOLOGY

File No. K7756

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.

End of Report



CHEMICAL ANALYSIS REPORT

Date: July 28, 1999

ASL File No. K7749

Report On: 526-9 Spyder Lake Water Quality

Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3

Attention: **Ms. Deborah Muggli**

Received: July 17, 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. K7749

Sample ID	Spyder Lake Stn6 R1 99 07 14	Spyder Lake Stn6 R2 99 07 14	Spyder Lake Stn2 R1 99 07 14	Spyder Lake Stn2 R2 99 07 14	Travel Blank 99 07 14
Sample Date					

Physical Tests

Conductivity	(umhos/cm)	74	41	45	44	<2
Total Dissolved Solids		57	21	26	26	<10
Hardness	CaCO3	10.9	10.8	11.8	11.4	<0.05
pH		6.52	6.67	6.71	6.73	6.05
Total Suspended Solids		<3	<3	11	8	<3

Dissolved Anions

Acidity (to pH 8.3)	CaCO3	3	2	2	2	<1
Alkalinity-Total	CaCO3	7	6	6	7	<1

Nutrients

Ammonia Nitrogen	N	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate Nitrogen	N	<0.005	<0.005	<0.005	<0.005	<0.005

Bacteriological Tests

Coliform Bacteria - Fecal		<1	<1	<1	<1	<1
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Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.



RESULTS OF ANALYSIS - Water

File No. K7749

Sample ID		Spyder Lake Stn6 R1	Spyder Lake Stn6 R2	Spyder Lake Stn2 R1	Spyder Lake Stn2 R2	Travel Blank
Sample Date		99 07 14	99 07 14	99 07 14	99 07 14	99 07 14
Total Metals						
Aluminum	T-Al	0.026	0.023	0.074	0.068	<0.001
Antimony	T-Sb	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Arsenic	T-As	0.0001	0.0001	0.0003	0.0003	<0.0001
Barium	T-Ba	0.00210	0.00206	0.00611	0.00501	<0.00005
Beryllium	T-Be	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bismuth	T-Bi	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Boron	T-B	0.003	0.003	0.003	0.003	<0.001
Cadmium	T-Cd	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Calcium	T-Ca	2.12	2.12	2.35	2.32	<0.05
Chromium	T-Cr	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	T-Co	<0.0001	<0.0001	0.0002	0.0002	<0.0001
Copper	T-Cu	0.0009	0.0009	0.0010	0.0010	<0.0001
Iron	T-Fe	0.11	0.12	0.25	0.25	<0.03
Lead	T-Pb	0.00008	0.00007	0.00022	0.00021	<0.00005
Lithium	T-Li	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	T-Mg	1.4	1.3	1.4	1.4	<0.1
Manganese	T-Mn	0.0107	0.0107	0.0179	0.0163	<0.00005
Mercury	T-Hg	<0.00005	<0.00005	<0.00005	<0.00012	<0.00005
Molybdenum	T-Mo	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Nickel	T-Ni	0.0004	0.0004	0.0006	0.0006	<0.0001
Phosphorus	T-P	<0.3	<0.3	<0.3	<0.3	<0.3
Potassium	T-K	<2	<2	<2	<2	<2
Selenium	T-Se	<0.001	<0.001	<0.001	<0.001	<0.001
Silicon	T-Si	0.23	0.22	0.34	0.35	<0.05
Silver	T-Ag	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Sodium	T-Na	4	4	4	4	<2
Strontium	T-Sr	0.0102	0.0101	0.0108	0.0107	<0.0001
Thallium	T-Tl	<0.00005	<0.00005	<0.00005	0.00005	<0.00005
Tin	T-Sn	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	T-Ti	<0.01	<0.01	<0.01	<0.01	<0.01
Uranium	T-U	0.00002	0.00002	0.00003	0.00002	<0.00001
Vanadium	T-V	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc	T-Zn	<0.001	<0.001	0.001	0.001	<0.001
Extractables						
EPH (C10-18)		<0.1	<0.1	<0.1	<0.1	<0.1
EPH (C19-31)		<0.1	<0.1	0.1	<0.1	<0.1

Results are expressed as milligrams per litre except where noted.
 Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
 < = Less than the detection limit indicated.
 EPH = Extractable Petroleum Hydrocarbons.



METHODOLOGY

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. K7749

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

Extractable Hydrocarbons in Water

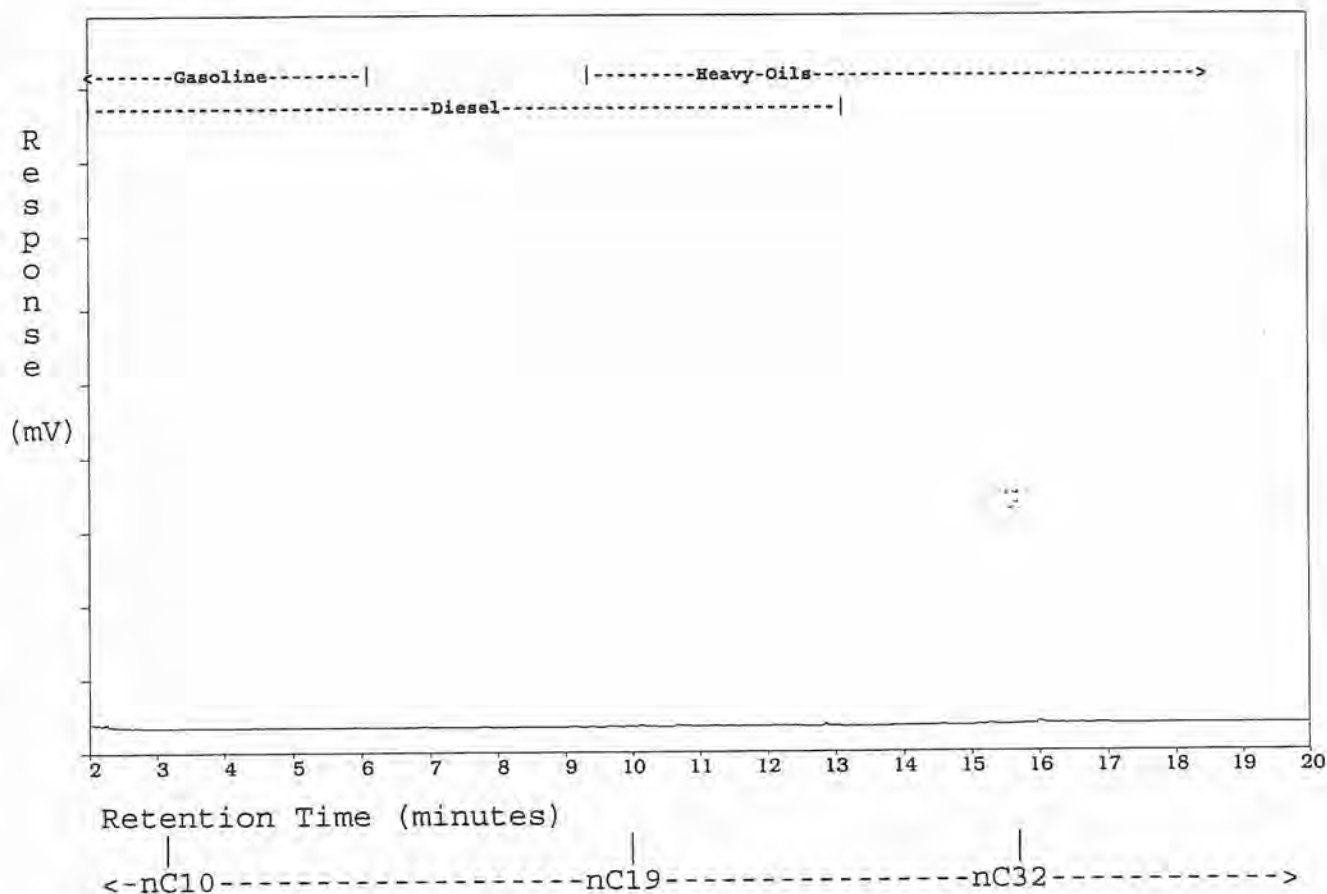
This analysis is carried out using procedures adapted from U.S. EPA Methods 3510/8015 (Publ. #SW-846, 3rd ed., Washington, DC 20460) and British Columbia Ministry of Environment, Lands and Parks Method for "Extractable Petroleum Hydrocarbons in Water by GC/FID" (January 1996). The procedure involves a methylene chloride solvent extraction followed by analysis of the extract by capillary column gas chromatography with flame ionization detection. Results are not corrected for Polycyclic Aromatic Hydrocarbons (PAHs) for Extractable Petroleum Hydrocarbon (LEPH/HEPH) purposes.

End of Report

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Spyder Lake Stn6 R1

File Name: C:\TEH\JL22\EH1JL22.40R ASL Sample ID: K7749-T--1 Sample acquired: JUL 23, 1999 00:37:21
Chromatogram Scale: 50.0 millivolts



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

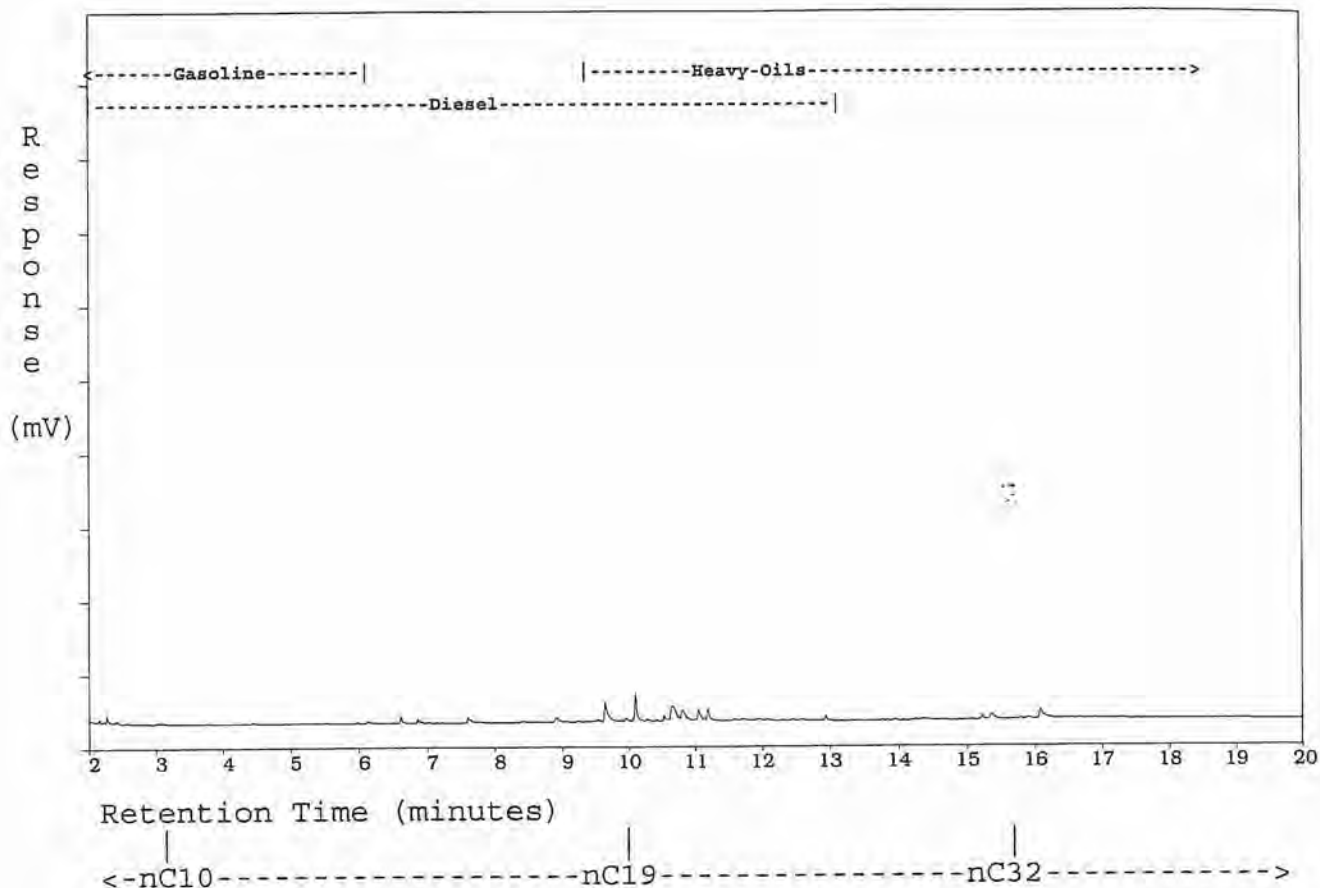
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Spyder Lake Stn6 R2

File Name: C:\TEH\JL22\EH1JL22.41R ASL Sample ID: K7749-T--2 Sample acquired: JUL 23, 1999 01:12:30
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 520.0 Dilution: 0.5

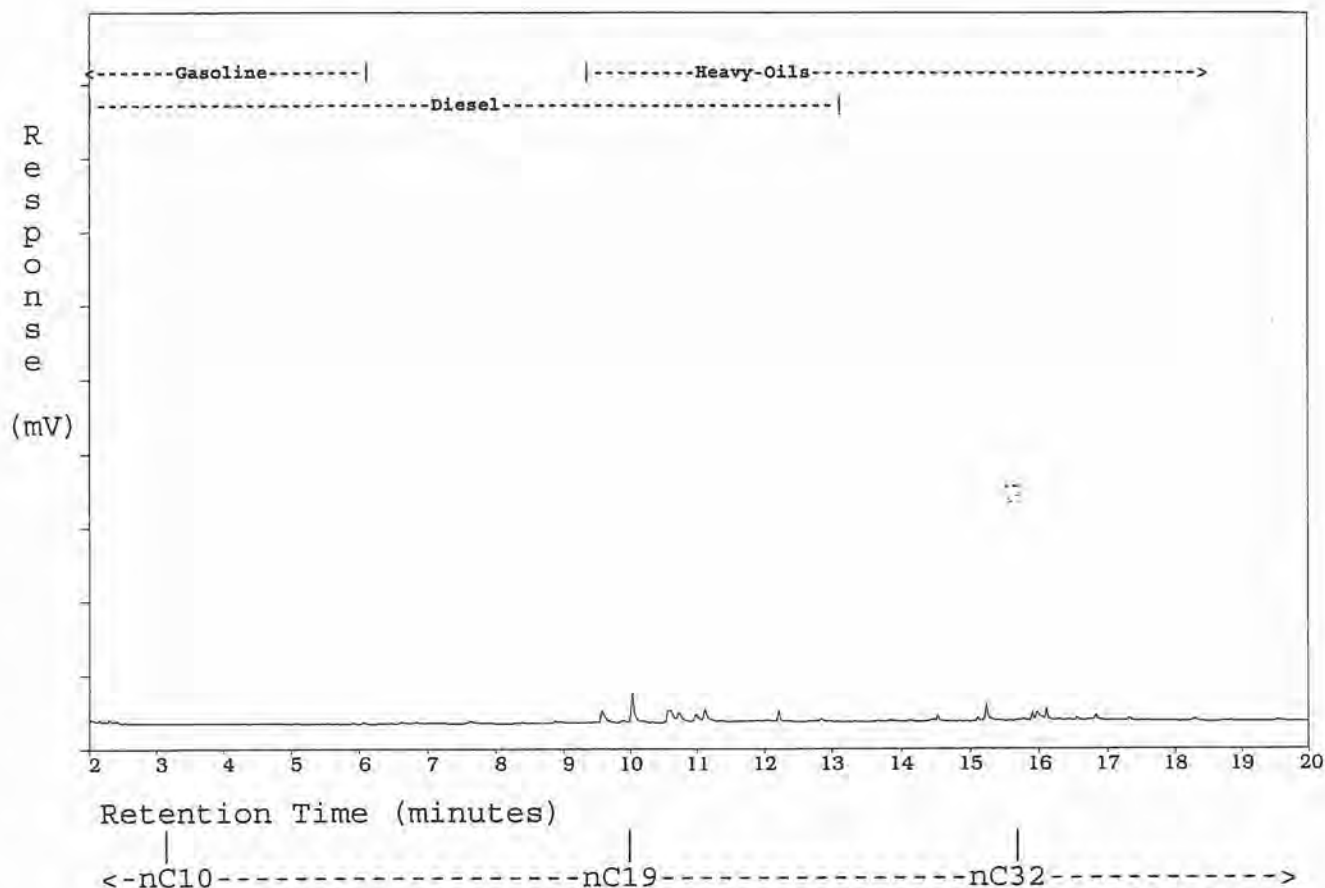
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Spyder Lake Stn2 R1

File Name: C:\TEH\JL22\EH1JL22.42R ASL Sample ID: K7749-T--3 Sample acquired: JUL 23, 1999 01:12:30
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 520.0 Dilution: 0.5

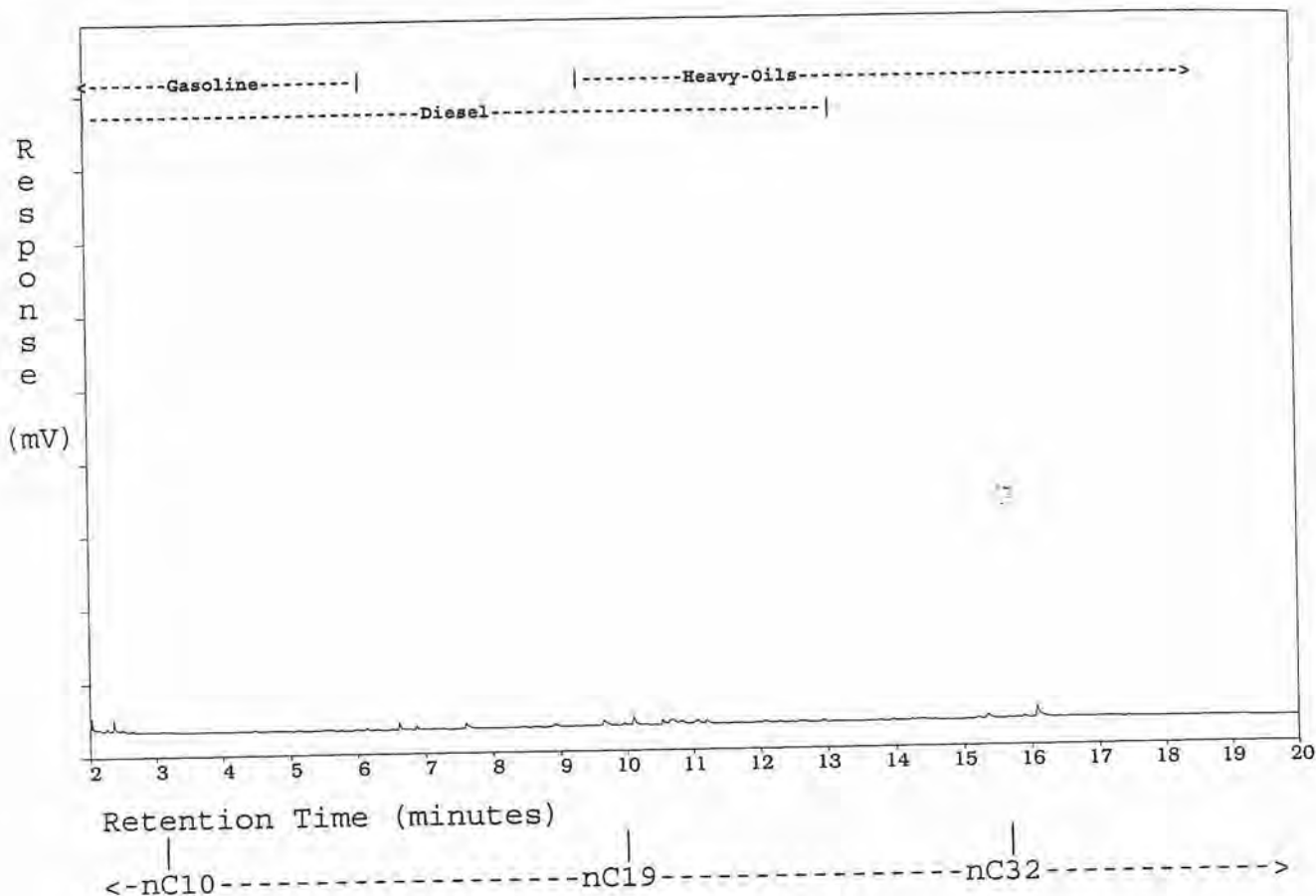
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Spyder Lake Stn2 R2

File Name: C:\TEH\JL22\EH1JL22.43R ASL Sample ID: K7749-T--4 Sample acquired: JUL 23, 1999 01:47:40
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 500.0 Dilution: 0.5

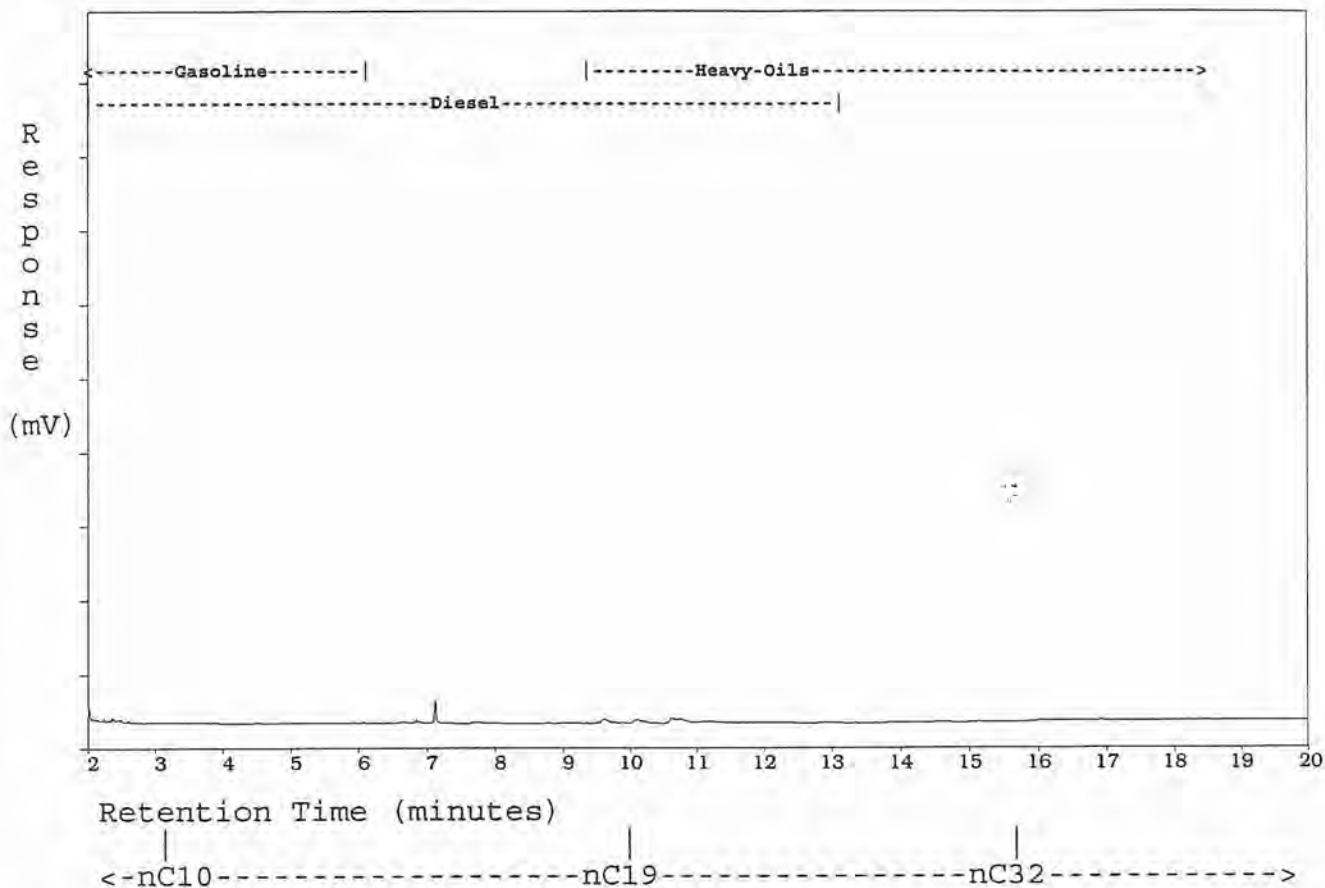
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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: Travel Blank

File Name: C:\TEH\JL22\EH1JL22.44R ASL Sample ID: K7749-T--5 Sample acquired: JUL 23, 1999 01:47:40
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.

A diagram showing three transformers connected to a common bus labeled 'P'. The transformers are represented by rectangles with a circle inside, and the bus is a horizontal line with three vertical connections to each transformer.

Fred Chen

NOTES

Travel Blanks

1	2	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	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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SPECIAL INSTRUCTIONS:

☐ AMBIENT

TIME



CHEMICAL ANALYSIS REPORT

Date: July 29, 1999
ASL File No. K7753
Report On: 526-9 Wolverine L. Water Quality
Report To: **Rescan Environmental Services**
Sixth Floor
1111 West Hastings Street
Vancouver, BC
V6E 2J3
Attention: **Ms. Deborah Muggli**
Received: July 17, 1999

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:



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





File No. K7753

RESULTS OF ANALYSIS - Water

Sample ID	Wolver. Control Rep 1 99 07 15	Wolver. Control Rep 2 99 07 15	Wolver. Camp Rep 1 99 07 15	Wolver. Camp Rep 2 99 07 15
Sample Date				

Physical Tests

Conductivity (umhos/cm)	272	272	272	271
Total Dissolved Solids	154	149	152	155
Hardness CaCO ₃	43.9	47.1	43.8	43.6
pH	7.42	7.43	7.43	7.44
Total Suspended Solids	<3	<3	5	4

Dissolved Anions

Acidity (to pH 8.3)	CaCO ₃	2	2	2	2
Alkalinity-Total	CaCO ₃	27	27	27	28

Nutrients

Ammonia Nitrogen	N	<0.02	<0.02	0.07	<0.02
Nitrate Nitrogen	N	<0.005	<0.005	<0.005	<0.005

Bacteriological Tests

Coliform Bacteria - Fecal		<1	<1	<1	<1
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Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.

**RESULTS OF ANALYSIS - Water**

File No. K7753

Sample ID		Wolver. Control Rep 1 99 07 15	Wolver. Control Rep 2 99 07 15	Wolver. Camp Rep 1 99 07 15	Wolver. Camp Rep 2 99 07 15
Sample Date					
Total Metals					
Aluminum	T-Al	0.048	0.045	0.045	0.050
Antimony	T-Sb	<0.00005	<0.00005	<0.00005	<0.00005
Arsenic	T-As	0.0005	0.0005	0.0004	0.0005
Barium	T-Ba	0.00384	0.00389	0.00373	0.00382
Beryllium	T-Be	<0.0005	<0.0005	<0.0005	<0.0005
Bismuth	T-Bi	<0.0005	<0.0005	<0.0005	<0.0005
Boron	T-B	0.015	0.016	0.015	0.015
Cadmium	T-Cd	<0.00005	<0.00005	<0.00005	<0.00005
Calcium	T-Ca	6.63	6.87	6.58	6.56
Chromium	T-Cr	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	T-Co	<0.0001	<0.0001	<0.0001	<0.0001
Copper	T-Cu	0.0005	0.0005	0.0006	0.0006
Iron	T-Fe	0.12	0.10	0.13	0.14
Lead	T-Pb	0.00010	0.00009	0.00008	0.00011
Lithium	T-Li	0.003	0.004	0.003	0.003
Magnesium	T-Mg	6.7	7.3	6.7	6.6
Manganese	T-Mn	0.00701	0.00731	0.00909	0.00931
Mercury	T-Hg	<0.00005	<0.00005	<0.00005	<0.00005
Molybdenum	T-Mo	0.00007	0.00006	0.00006	0.00006
Nickel	T-Ni	0.0004	0.0004	0.0004	0.0004
Phosphorus	T-P	<0.3	<0.3	<0.3	<0.3
Potassium	T-K	2	<2	2	2
Selenium	T-Se	<0.001	<0.001	<0.001	<0.001
Silicon	T-Si	0.26	0.29	0.27	0.28
Silver	T-Ag	<0.00001	<0.00001	<0.00001	<0.00001
Sodium	T-Na	33	35	33	33
Strontium	T-Sr	0.0339	0.0344	0.0333	0.0337
Thallium	T-Tl	<0.00005	<0.00005	<0.00005	<0.00005
Tin	T-Sn	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	T-Ti	<0.01	<0.01	<0.01	<0.01
Uranium	T-U	0.00002	0.00002	0.00002	0.00002
Vanadium	T-V	<0.001	<0.001	<0.001	<0.001
Zinc	T-Zn	<0.001	<0.001	<0.001	<0.001
Extractables					
EPH (C10-18)		<0.1	<0.1	<0.1	<0.1
EPH (C19-31)		<0.1	<0.1	<0.1	<0.1

Results are expressed as milligrams per litre except where noted.
Coliform results are expressed as Colony Forming Units (CFU) per 100 mL.
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.



METHODOLOGY

File No. K7753

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. K7753

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

Extractable Hydrocarbons in Water

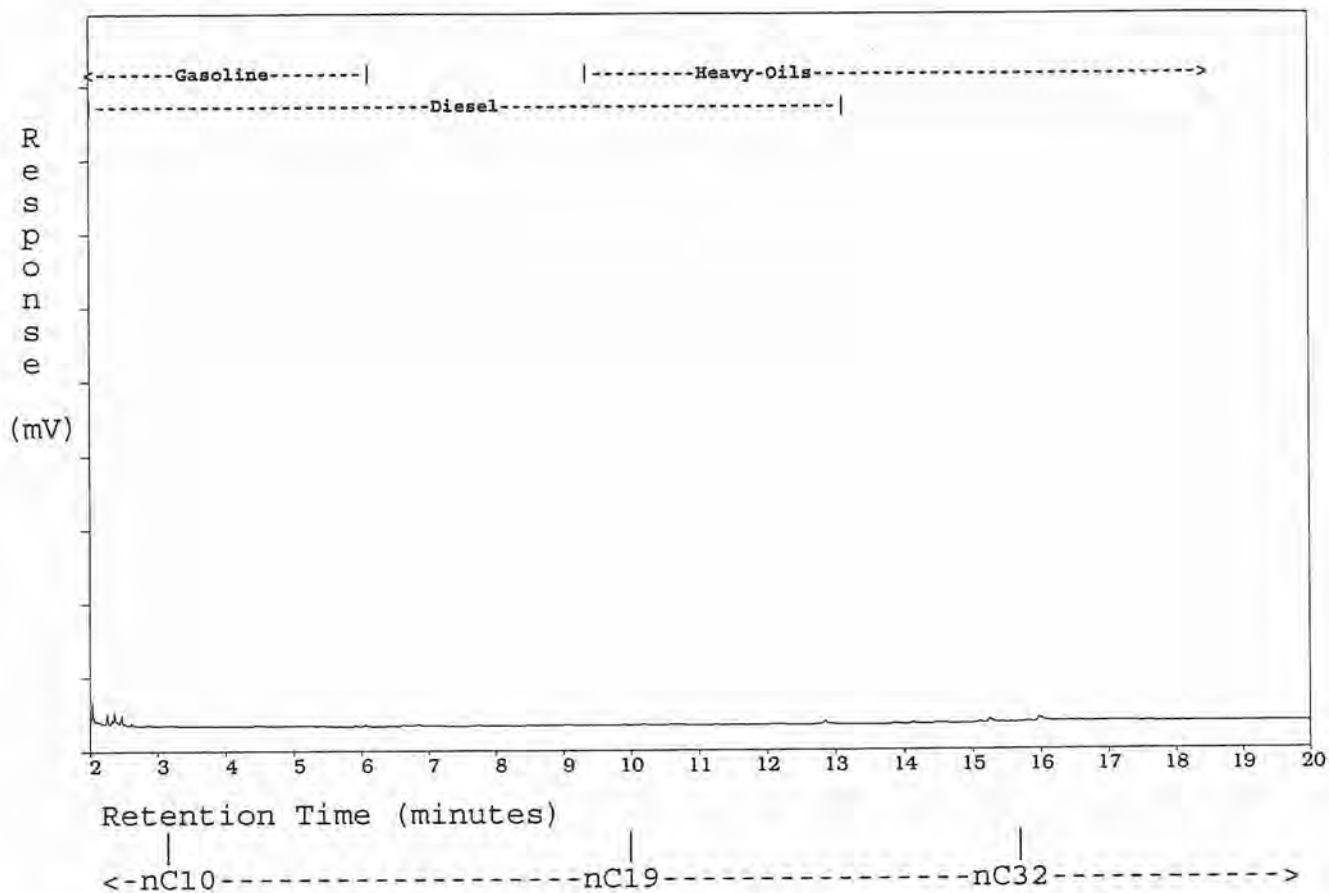
This analysis is carried out using procedures adapted from U.S. EPA Methods 3510/8015 (Publ. #SW-846, 3rd ed., Washington, DC 20460) and British Columbia Ministry of Environment, Lands and Parks Method for "Extractable Petroleum Hydrocarbons in Water by GC/FID" (January 1996). The procedure involves a methylene chloride solvent extraction followed by analysis of the extract by capillary column gas chromatography with flame ionization detection. Results are not corrected for Polycyclic Aromatic Hydrocarbons (PAHs) for Extractable Petroleum Hydrocarbon (LEPH/HEPH) purposes.

End of Report

HYDROCARBON DISTRIBUTION REPORT

SAMPLE NAME: Wolver. Control Rep 1

File Name: C:\TEH\JL22\EH1JL22.36R ASL Sample ID: K7753-T--1 Sample acquired: JUL 22, 1999 23:27:08
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 550.0 Dilution: 0.5

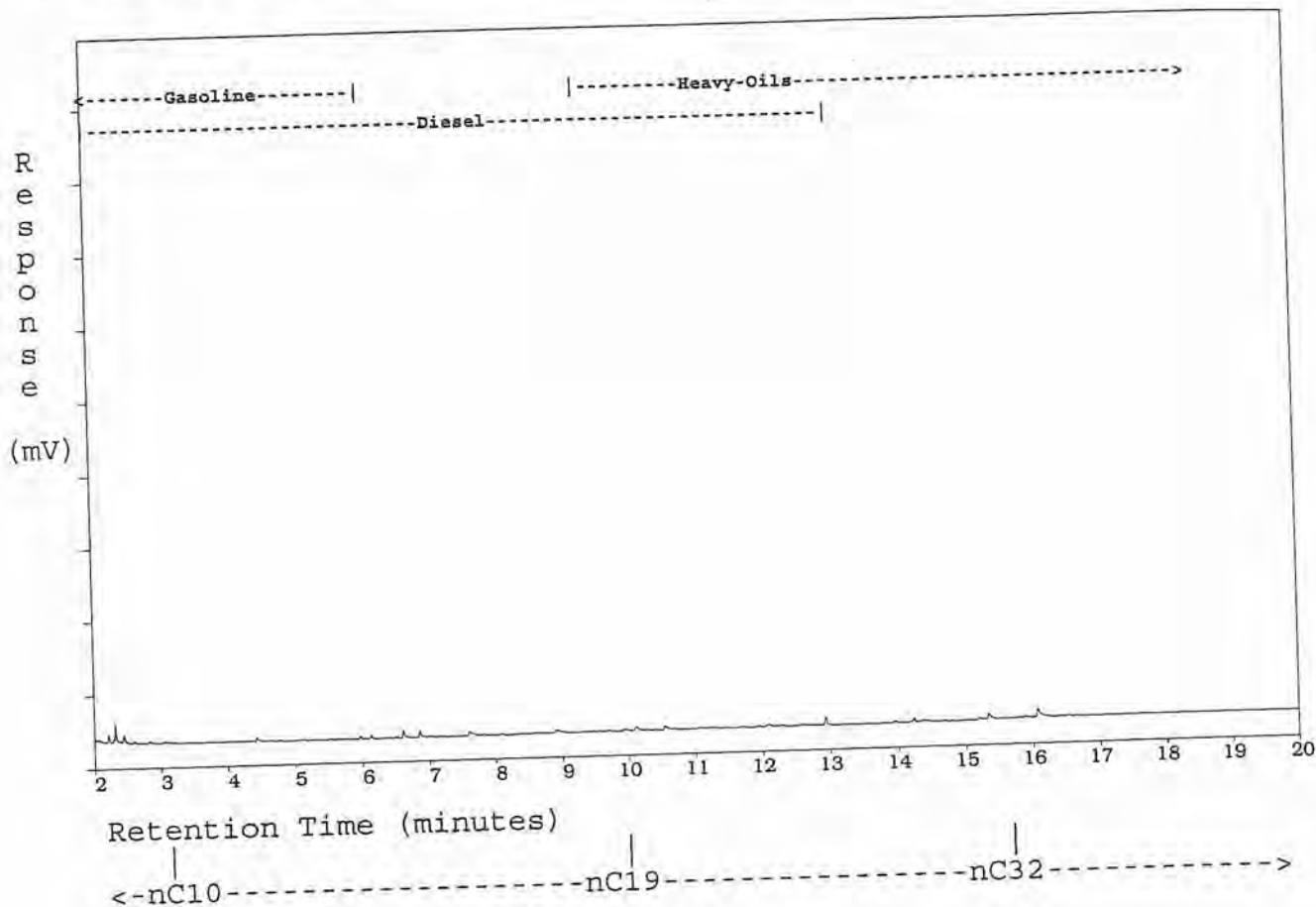
The Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the top of this report represents the approximate hydrocarbon range of common petroleum products. The scale at the bottom of the report shows retention 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. Control Rep 2

File Name: C:\TEH\JL22\EH1JL22.37R ASL Sample ID: K7753-T--2 Sample acquired: JUL 23, 1999 00:02:10
Chromatogram Scale: 50.0 millivolts



Sample Amt. (g or mL): 520.0 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.